



SUPPLEMENTAL SITE ASSESSMENT REPORT

**Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida
ERIC_6494
FDEP Contract HW 683, Task Assignment SA155**

Prepared for

Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Prepared by

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Clearwater, FL 33764

Project FR3511H

3 June 2022

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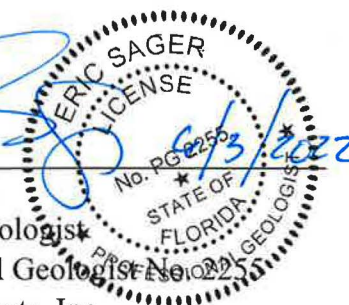
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1. INTRODUCTION

1.1 Overview

Geosyntec Consultants, Inc. (Geosyntec) has prepared this Supplemental Site Assessment Report for the Florida State Fire College (FSFC; herein, “the Site”) located at 11655 NW Gainesville Road in Ocala, Marion County, Florida (**Figure 1**). This work was completed on behalf of the Florida Department of Environmental Protection (FDEP) in accordance with Task Assignment SA155 under Contract HW683 between Geosyntec and the FDEP.

1.2 Objectives

The objective of this investigation was to evaluate the extent and magnitude of Site soil, on-Site groundwater, and off-Site groundwater that were previously determined to be impacted with per- and polyfluoroalkyl substances (PFAS). More specifically, the objectives of this assessment included:

- collecting Site-wide depth-to-water measurements to evaluate groundwater flow direction;
- collecting monitoring well samples from select wells that have been below or near provisional Groundwater (G-) Cleanup Target Levels (CTLs) for perfluorooctanoic acid (PFOA), perfluorooctane sulfonate (PFOS), or the summation of PFOA and PFOS (PFOA+PFOS) (see **Section 1.5**);
- delineating surface soil exceedances above the provisional groundwater leachability (L-) Soil (S-) CTLs for PFOA and PFOS; and
- refining our understanding of the horizontal and vertical extent of PFOA+PFOS in groundwater across the Site, off-Site, and adjacent to supply wells with concentrations of PFOA+PFOS greater than the provisional GCTL.

1.3 PFAS Overview

The Interstate Technology and Regulatory Council (ITRC) has developed fact sheets and guidance documents to summarize the latest science and emerging technologies for PFAS. According to the ITRC PFAS Technical and Regulatory Guidance, it is estimated that PFAS may consist of 5,000 to 10,000 manmade fluorinated organic chemical compounds that have been extensively manufactured since the mid-20th century (ITRC, 2021).

PFAS are widely used due to their unique physical and chemical properties (e.g., surfactant, oil-repelling, water-repelling, etc.) (ITRC, 2021; USEPA, 2017). One widely recognized use of PFAS is as a component in aqueous film forming foam (AFFF) (USEPA, 2017). AFFF has been stored and used by the military, airports, and other firefighting and fire-training facilities to extinguish hydrocarbon fires (ITRC, 2020; USEPA, 2017). PFAS are emerging environmental contaminants of concern due to evidence of their potential human health effects or environmental risks. When

released to the environment, some PFAS have been shown to be stable, mobile, persistent, and bioaccumulative (ITRC 2020; USEPA 2017).

PFAS have been manufactured using two major processes: electrochemical fluorination (ECF) and fluorotelomerization (ITRC, 2021). Both perfluoroalkyl substances and polyfluoroalkyl substances may be manufactured using ECF and fluorotelomerization. Perfluoroalkyl substances are fully fluorinated and include perfluoroalkyl acids (PFAAs) and perfluoroalkane sulfonamides (FASAs). Polyfluoroalkyl substances are partially fluorinated and have a non-fluorine atom attached to at least one of the carbon atoms (ATSDR, 2017; ITRC, 2021). PFOS and PFOA are two perfluoroalkyl substances (specifically PFAAs) (ITRC, 2021; USEPA, 2017).

PFAAs are considered to be less complex compared to other PFAS and essentially do not degrade under normal environmental conditions. As a result, they are much more persistent compared to other PFAS and have been the focus of the majority of regulatory screening criteria. PFAAs may be found at sites from the use and release of products that contain these molecules or may be found in the environment as the result of polyfluoroalkyl substance degradation. Polyfluoroalkyl substances that degrade into PFAAs are referred to as “precursors.” According to ITRC, longer chain PFAAs are not known to degrade to shorter chain PFAAs in the environment. However, FASAs can degrade to form PFAAs (ITRC, 2021).

PFAAs are divided into two major subgroups: perfluoroalkyl carboxylic acids (PFCAs) and perfluoroalkane sulfonic acids (PFSAs). PFSAs are produced only using the ECF process, but PFCAs are produced using both ECF and fluorotelomerization. Additionally, PFSAs and PFCAs may also be found in the environment from the transformation of different precursors. Because of the persistence of PFAAs in the environment, some have been phased out of production and replaced with other PFAS chemistries (ITRC, 2021).

1.4 Assessment Overview

The FDEP completed a Preliminary Assessment between August 2018 and November 2018 at FSFC, including the collection of 59 soil samples from 37 boring locations, 8 groundwater samples from 7 supply wells, 3 sediment samples, and 7 surface water samples. Results indicated that concentrations of PFOA and/or PFOS were detected above FDEP’s provisional cleanup target levels (CTLs) in soil and groundwater (see **Section 1.5** regarding provisional CTLs). Based on the assessment results, five Areas of Concern (AOCs) were identified (**Figure 2**):

- AOC 1 – Former Drum and Tote Area;
- AOC 2 – Training Tower Block;
- AOC 3 – New Burn Building Block;
- AOC 4 – Storm Water Pond; and
- AOC 5 – Hazmat Field.

Geosyntec continued assessment activities at FSFC, and between March 2019 and March 2021 collected a total of 753 soil samples from 154 boring locations, 53 direct push technology (DPT)

groundwater samples from 14 screen point locations, 19 groundwater samples from 7 supply wells, and associated quality assurance and quality control (QA/QC) samples (**Table 1**). Additionally, in June and November 2019, Geosyntec oversaw the installation of 20 monitoring wells across the Site, which have been sampled periodically since August 2019. Well construction details are presented in **Table 2**. **Figures 3** through **6** present the soil (**Figure 3**), monitoring and supply well (**Figure 4**), and screen point sampling locations (**Figures 5** and **6**). The locations of the sediment and surface water samples collected by FDEP are also shown on **Figure 3**.

As assessment activities have continued and potential source areas have been evaluated, the AOC designations are no longer used with the exception of the Former Drum and Tote Area (AOC 1), as this area contains the most elevated concentrations in soil and groundwater detected at the Site. Additional details regarding the AOC 1 source area and observed Site-wide concentrations are provided in **Section 4**. An Interim Source Removal (ISR) was conducted within AOC 1 in April and May 2021 to address elevated concentrations of PFOS in soils from 0 to 4 feet (ft) below land surface (BLS) that may represent a human health direct-exposure pathway. Details of the ISR were presented in the *Interim Source Removal Completion Report for Area of Concern 1* (Geosyntec, 2021a).

Assessment activities are ongoing, and the following sections of this report summarize assessment activities conducted in February and March 2022, including monitoring well sampling activities, surface soil delineation, and horizontal and vertical delineation of groundwater impacts both on-Site and off-Site using DPT drilling methodology. Details regarding these sampling activities are further discussed in **Section 4**.

Prior to each assessment event, Geosyntec prepared a Work Plan that described the proposed sampling activities for FDEP review. The Work Plans included figures showing the proposed sampling locations and tables summarizing the sampling locations, matrices, depth intervals, sampling methods, laboratory analyses, rationale, and screening criteria. A comprehensive table listing samples collected at the Site to-date is provided as **Table 1**.

1.5 Laboratory Analysis and Data Screening Process

Samples collected from environmental media (groundwater and soil) were packed on wet ice and transported under chain-of-custody to the FDEP Laboratory. Samples were analyzed for up to 36 PFAS using USEPA Method 8321B and FDEP Standard Operating Procedure (SOP) LC-001-3.

CTLs for individual PFAS have not been promulgated under Chapter 62-777 of the Florida Administrative Code (FAC). However, following the procedures promulgated in Chapter 62-777 FAC, Chapter 62-780 FAC, and at the request of FDEP, the University of Florida (UF) calculated provisional SCTLs for residential-direct exposure (R-), SCTLs for commercial/industrial-direct exposure (I-), and L-SCTLs for PFOA and PFOS. Following the promulgated procedures, UF also calculated provisional GCTLs for PFOA and PFOS. The formulas, assumptions, and chemical-specific parameters used in the calculations are presented in letters prepared by UF included in **Appendix A**. The following table summarizes the provisional CTLs.

Provisional Cleanup Target Level	PFOA	PFOS	PFOA+PFOS	Units**
R-SCTL	1,300	1,300	Not applicable	µg/kg
I-SCTL	25,000	25,000	Not applicable	µg/kg
L-SCTL	2	7	Not applicable	µg/kg
Groundwater	70	70	70	ng/L

** µg/kg indicates micrograms per kilogram and ng/L indicates nanograms per liter.

The provisional CTLs were used as the primary screening criteria to evaluate the nature and extent of PFAS constituents in soil and groundwater. The analytical results of the media sampled at the Site were evaluated to identify PFOA and PFOS present at concentrations that exceed applicable screening criteria and assess areas of the Site that may require further investigation. For general Site characterization, both soil and groundwater were screened against human health criteria. Soil data were compared to the provisional L-, R-, and I-SCTLs, and groundwater data were compared to the provisional GCTLs.

2. SITE DESCRIPTION AND HISTORY

2.1 Site Location

The Site is located at 11655 NW Gainesville Road in Ocala, Marion County, Florida. The Site property lies within Section 37, Township 13 South, and Range 21 East and encompasses approximately 88 acres. According to the FDEP website, the FSFC includes on-Site administrative buildings, dormitory facilities, a cafeteria, classrooms, and fire training areas. The facility is served by one on-Site potable well (“FSFC Supply Well”) and one fire suppression well (“FSFC Fire Well”) used for training exercises (**Figure 4**).

The Site is bordered by Lhoist North America (Lhoist) to the east, residential properties to the north/northwest, the Lowell Correctional Institute to the west/southwest, and the Florida Women’s Reception Center to the south. Additional properties located south of the Site are undeveloped land owned by both the Florida Department of Corrections and private property owners.

The United States Geological Survey topographic map showing the Site location is provided as **Figure 1**. The Site Vicinity Map is presented in **Figure 2**.

2.2 Site Utilities

Multiple underground utility types including water, sanitary, stormwater, electric, and gas utilities are located within the areas of environmental assessment activities at the Site. The Site is served by on-Site water-supply systems for facility drinking water and fire training activities. The FSFC Supply Well (**Figure 4**) provides water for the buildings and dormitories and is not currently used for consumption. A disinfection and carbon filtration system are utilized to treat extracted groundwater from the FSFC Supply Well.

Wastewater generated by the facility is treated by an on-Site wastewater treatment system (Permit Number FLA010790) near AOC 1. The treatment system consists of flow equalization, aeration, secondary clarification, chlorination, and aerobic digestion of biosolids, along with land application to two rapid infiltration basins.

The FSFC Fire Well (**Figure 4**) provides water for multiple hydrants across the Site for fire training. Water pumped from the FSFC Fire Well is stored in a pond located adjacent to the well.

The average daily volumes of water withdrawn from the FSFC Supply Well and FSFC Fire Well are unknown, but the wastewater treatment plant is permitted for an annual average daily flow of 0.020 million gallons per day. The FSFC Supply Well is screened from 118 to 170 ft BLS, but the screened interval of the FSFC Fire Well is unknown.

2.3 Topography and Drainage

The topography of the Site is generally flat with some low-lying areas. The elevation across the Site (according to surveyed monitoring wells) varies from approximately 80 to 110 ft above mean sea level relative to the North American Vertical Datum 1988 (**Figure 1**). The Site is split along the north/northwestern corner by a railroad (**Figure 2**) that is built up at a higher elevation than

the immediate surrounding area. It is presumed that storm water from the Hazmat Field drains northwest of the railroad and does not flow south within the Site.

The Site Vicinity Map (**Figure 2**) depicts some storm water features on Site along the northern property boundary (Storm Water Pond) and to the east at Lhoist. Drainage features associated with the wastewater treatment system are located south of the Former Drum and Tote Area (AOC 1). A low-lying area is also located north of the New Burn Building Block, Training Tower Block, and Former Drum and Tote Area (AOC 1) in the vicinity of DEPMW-16 (30-50') and DEPMW-17 (100-120') (**Figure 4**).

Multiple storm water grates are located within the paved roads around the training areas and buildings on Site. These grates discharge to the Storm Water Pond located in the northern portion of the Site. Overflow from the Storm Water Pond drains to the north into a wooded area and toward the Lhoist property.

2.4 Potable Water Wells

The Florida Department of Health (FDOH) conducted potable well sampling within a 1-mile radius of the Site in August 2019. A total of 23 potable wells were identified and sampled within a 0.5-mile radius, and 57 potable wells were identified and sampled between a 0.5- and 1-mile radius from the Site. An additional 2 potable wells within a 0.5-mile radius and 10 potable wells between a 0.5- and 1-mile radius were shown on the FDOH map but were not sampled. The FDOH potable well information is provided in **Appendix B**.

2.5 Operational Description

According to the FDEP website, the facility offers year-round training for students seeking state certification as firefighters (FDEP, 2021a). According to information provided to the FDEP in 2018 from FSFC representatives, the facility has used AFFF for several years and at the time stored AFFF in drums and totes. Sixteen (16) containers of AFFF were removed and transported off-Site for disposal in January 2019 (Geosyntec, 2019a).

2.6 Previous Investigations

According to the FDEP Information Portal website, no known environmental investigations for PFAS or other constituents of concern have been previously conducted or reported to the FDEP for the Site (FDEP, 2021b). Assessment activities conducted by the FDEP and Geosyntec beginning in August 2018 (see **Section 1.4**) mark the initial environmental investigations at the Site.

3. GEOLOGY AND HYDROGEOLOGY

3.1 Regional Geology and Hydrogeology

The Site is located in the Fairfield Hills physiographic subdivisions of the Central or Mid-Peninsular Zone geomorphologic province of Florida (Hoenstine, 1988). The Fairfield Hills subdivision is an irregular area located in northwestern Marion County. It is a series of gently rolling hills, ranging in elevation from 75 to 135 ft above mean sea level, composed of clayey sand and sandy clay of the Hawthorn Group. These hills are believed to be a relict coastal feature (Lane et al., 1991).

The vast majority of Marion County has Karst terrain or topography. This includes sinkholes and cavernous springs. The northwestern portion of Marion County near the Site has cover-collapse sinkholes. These sinkholes are formed as a result of 50 to 100 ft of cohesive, low permeability, clayey sediments overlying the carbonates (limestones, dolomitic limestones). These types of sinkholes are most numerous, of varying size and develop quickly in these areas (Lane et al., 1991; Sinclair et al., 1985).

There are three hydrostratigraphic units present in Marion County that include: the surficial aquifer system, intermediate aquifer system/confining unit and the Floridan aquifer system. The surficial and intermediate aquifer systems may occur sporadically in Marion County (Lane et al., 1991).

The surficial aquifer system consists of the Pleistocene to Holocene Epoch undifferentiated sand, clayey sand and clay sediments and the sands and minor clays of the Cypresshead Formation (Fm). This also includes what was formerly referred to as the Jackson Bluff Fm, Alachua Fm, and Fort Preston Fm. The surficial aquifer system does not exist as a continuous unit in many parts of Marion County. This is particularly evident in western Marion County where the Hawthorn Group is absent. Sand and clay lenses may allow for the existence of a perched water table that can retain water for a short length of time. A surficial aquifer system may be present in areas having an appreciable thickness (tens of feet) of interbedded sand and clay deposits. Where present, the surficial aquifer system (water table) is found generally 10 to 40 ft below land surface (BLS). The surficial aquifer system is recharged primarily by rainfall and is reportedly not used as a major source of water in the Site; however, where present, it may be used for stock and irrigation watering (Lane et al., 1991; Miller, 1986).

The intermediate aquifer system/confining unit may be present in isolated pockets of relatively thick Miocene Epoch Hawthorn Group sediments. These sediments consist of interbedded sands, sandy clays, clayey sands, dolostones and clays. They typically have a high phosphate content. The Hawthorn Group is generally absent in western Marion County. Where present, it averages approximately 50 feet thick in central and eastern Marion County and approximately 20 to 30 ft thick in Ocala. The intermediate aquifer system is reportedly not used as a major source of water in the county (Lane et al., 1991).

The Floridan aquifer system is the major source of drinking water in the area and consists of carbonate (limestone and dolomite) deposits of the Eocene Epoch. The most productive portion is

referred to as the Upper Floridan aquifer. The units include, in descending order, the Ocala Limestone Fm and Avon Park Fm. The upper Floridan aquifer is solution riddled and faulted. The Floridan aquifer exists under unconfined to semi-confined conditions and the top of the aquifer can be found as shallow as land surface in some parts of Ocala. The Floridan aquifer system is between 600 ft (southwest Marion County) to 1,900 ft (southern Marion County) thick. The Ocala area is located in an area of high recharge to the Floridan aquifer system (Lane et al., 1991).

The Floridan aquifer system in Marion County consists of two major permeable zones. The two zones – the Upper and Lower Floridan aquifers – are separated by middle semi-confining units commonly referred to as Middle Confining Unit I and/or Middle Confining Unit II. Middle Confining Unit I is present in the eastern half of Marion County while Middle Confining Unit II is present in mostly in the western half. The Upper Floridan aquifer consists of, in descending order, the Ocala Limestone and the upper portions of the Avon Park Fm. Middle Confining Unit I is a zone of slightly lower permeability and consists of dense dolostone interbedded with limestones within the middle third of the Avon Park Fm. The contrast in permeability between rocks in Middle Confining Unit I and the rocks of the Upper and Lower Floridan aquifer is less than any other Middle Confining Unit in the Southeastern United States. Solution cavities and dissolution enlargement of fault planes and fractures transecting this semi-confining unit allows for interchange of water between the two permeable sections of the aquifer. Middle Confining Unit II consists of low permeability anhydritic/gypsiferous dolomite and dolomitic limestone. It is present within the middle portion of the Avon Park Fm. Middle Confining Unit II is considered a non-leaking confining unit. The Lower Floridan aquifer consists of, in descending order, the lower third of the Avon Park Fm, the Oldsmar Fm and upper portions of the Cedar Key Fm. The Lower Floridan aquifer generally contains highly mineralized water. In the northern half of Lake County, where Middle Confining Unit II is absent, the contrast in permeability between rocks in Middle Confining Unit I and the rocks of the Upper and Lower Floridan aquifer is less than any other Middle Confining Unit in the southeastern United States (Miller, 1986).

3.2 Site-Specific Geology

Geosyntec has documented lithology from DPT soil borings and monitoring wells from 2019 through 2020. A Site-wide lithological cross-section was generated using both DPT soil boring and Site-monitoring well installation and is presented on **Figure 7**. The general lithology observed in the section presented on **Figure 7** consists of surficial sands of variable thickness (2 to 10 ft observed) with varying amounts of fines and nodules (plastic and non-plastic). The surficial deposits are underlain by medium to high plastic, brown/greenish grey clay, clayey sand, or sandy clay of varying thickness (5 to 31 ft observed) and density identified as Hawthorn Group sediments. The clay unit rests on top of white to cream fossiliferous, friable limestone consistent with the Ocala Limestone of the Upper Floridan Aquifer (Geosyntec, 2019b). As shown on the **Figure 7**, the contact between the unconsolidated sediments and limestone varies.

This lithology is consistent with lithology observed during the AOC 1 assessment activities and both on- and off-Site monitoring well installation. Depending on the area of the Site, limestone can occur at or within a few feet of the land surface down to depths of 60 ft BLS or greater.

Additionally, in some areas across the Site and off-Site, the clay unit (indicative of Hawthorn Group sediments), was not noted and may not be present (Geosyntec, 2021).

3.3 Site-Specific Hydrogeology

Geosyntec collected depth-to-groundwater (DTW) measurements across the Site in February 2022 prior to groundwater sampling and results are discussed in **Section 4.3**. Historically, groundwater in wells screened from 30 to 80 and 90 to 120 ft BLS generally flows south/southeast across the Site as shown in the historic elevation maps included in **Appendix C**. Based on data from the wells installed by Geosyntec (see **Table 3**), the difference in groundwater elevations between shallow (i.e., screened between 30 and 80 ft BLS) and deeper wells (i.e., screened between 90 to 120 ft BLS) in each well pair are typically less than 0.1 ft, which indicates that a strong vertical hydraulic gradient is not present. The similar groundwater flow direction and groundwater elevations in the shallow and deeper wells, along with observed lithology during well installation activities demonstrates that these wells are installed in the Ocala Limestone Fm of the Upper Floridan aquifer.

4. SITE CHARACTERIZATION

4.1 Overview

Field activities were performed in general accordance with FDEP SOPs for Field Activities and internal SOPs for PFAS sampling that were developed by Geosyntec. The sampling locations (including QA/QC samples), matrices, depth intervals, sampling methods, laboratory analyses, rationale, and screening criteria used during the assessment activities are summarized on **Table 1**, which reflects any deviations from past Preliminary Assessment and Site Assessment Work Plans (and which are further discussed in the sections below). Sample locations are provided on **Figures 3 through 6 and 8 through 10**. Field forms are provided in **Appendix D**, and laboratory analytical reports are provided in **Appendix E**.

Geosyntec updated the Site-specific Health and Safety Plan (HASP) in April 2021 to address project-specific hazards that were known or suspected to be present due to existing conditions and work to be performed at the Site. No additional updates were required prior to performing field work in February and March 2022. This HASP revision met the requirements specified in the Occupational Safety and Health Administration Hazardous Waste Operations and Emergency Response program and Geosyntec's internal health and safety standards. Geosyntec maintained the HASP on-Site during assessment activities.

4.2 Utility Locate

Geosyntec observed GeoTek Services, LLC (GeoTek) perform underground utility surveys on 18 February and 9 March 2022. During the 18 February mobilization, Geosyntec requested that GeoTek locate the sampling area around hand-auger soil borings SB-289 to SB-309 and screen point locations SP-18, SP-19, SP-22, SP-24 through SP-35, and SP-37. GeoTek returned on 9 March 2022 to locate the sampling area around screen point locations SP-18 and SP-19 (which could not previously be located due to accessibility issues), SP-28A, SP-36, and SP-38. During the surveys, GeoTek utilized electromagnetic induction and ground penetrating radar to identify any potential subsurface utilities or obstructions. For sampling locations within Marion County rights-of-way (SP-15, SP-16, SP-17, SP-20, SP-21, and SP-23), Sunshine 811 utility locates were completed for each sampling location. Right-of-way use permits were also obtained prior to initiating sampling activities. The suspected underground utilities identified by the public locators and GeoTek were marked on land surface. Sampling locations were repositioned as necessary to avoid potential subsurface conflicts and each screen point location was hand cleared prior to initiating drilling activities. Two screen locations (SP-17 and SP-20) could not be completed due to aboveground and subsurface utility conflicts within the permitted locations in the right-of-way.

4.3 Soil Assessment

Geosyntec collected 75 discrete hand-auger soil samples in February 2022 from 21 boring locations (SB-289 to SB-309) to attempt to horizontally delineate of soil impacted with PFOA and/or PFOS concentrations above FDEP's provisional L-SCTL. Thirteen (13) of the hand-augered soil borings (SB-289 to SB-301) were completed to 2 ft BLS, and 8 hand-augered soil

borings (SB-302 to SB-309) were completed up to 8 ft BLS or until refusal was observed. At the request of FDEP as part of discussions during the field event, the DPT soil boring proposed to be collected at SB-309 was not completed during this mobilization. Soil sample locations are presented on **Figure 3** and **Figures 8** through **10**.

4.3.1 Soil Sampling Methodology

To date, a total of 887 discrete soil samples from 212 boring locations have been collected for laboratory analysis by both FDEP and Geosyntec, which includes 75 discrete soil samples from 21 soil borings that were collected by Geosyntec in February 2022. Soil samples were collected using decontaminated stainless-steel hand augers.

Completed soil borings were backfilled with the unused soil cuttings corresponding to the specific soil boring location and interval from which the soil was removed. Soil sample intervals and identifications are included in **Table 1**.

QA/QC samples from February 2022 associated with soil sampling includes seven equipment blanks (EQB-72 through EQB-78) that were collected from decontaminated hand auger buckets and one field reagent blank (FRB-34) that was collected in the area around soil boring SB-295 concurrent with soil sampling activities. No detections were noted in the QA/QC samples collected as part of soil sampling activities.

4.3.2 Soil Results and Conclusions

Comprehensive soil laboratory analytical results are summarized on **Table 4** and depicted on **Figure 11** (New Burn Building Block and Training Tower Block Areas), **Figure 12** (Storm Water Pond Area and north of FSFC), and **Figure 13** (Hazmat Field Area). PFOS and PFOA results from samples in each of these areas from 0 to 0.5, 0.5 to 2, and 2 to 4 ft BLS are presented on **Figures 14** through **31**. The overall inferred extent of soil greater than L-SCTLs for PFOA and/or PFOS is presented on **Figure 32**.

The greatest soil impacts across the Site are associated with PFOS. Historically, the highest concentrations have been detected in the Former Drum and Tote Area (AOC 1); concentrations of PFOS within this area were above I-SCTL to a depth of 4 ft BLS and above the R-SCTL to the water table. Soils with PFOS concentrations above the R-SCTL were excavated from land surface to 2 ft BLS during ISR construction activities in April 2021, and soils with PFOS concentrations above the I-SCTL were excavated to 4 ft BLS. The concentration of PFOS was also detected above the provisional R-SCTL at SB-218 in the New Burn Building Block Area from 0 to 0.5 ft BLS and these soils were also excavated in April 2021 as part of ISR activities (Geosyntec, 2021a and Geosyntec, 2021b). Remaining soil impacts at the Site are primarily greater than L-SCTLs and below the R-SCTLs, except for soils containing PFOS greater than the R-SCTL that were left in place below an impermeable liner from 2 ft BLS to the water table within the Former Drum and Tote Area (AOC 1).

The remaining focus of soil assessment activities has been to evaluate the extent of soil exceeding the provisional L-SCTLs for PFOA and PFOS across the Site. Results from the soil samples collected in February 2022 indicated the following:

- Concentrations of PFOA were above the provisional L-SCTL of 2 µg/kg 2 locations northeast of the Training Tower Block (SB-301 from 0 to 0.5 and 0.5 to 2 ft BLS) and 1 location off-Site to the north (SB-307 from 0 to 0.5 ft BLS) and
- Concentrations of PFOS were above the provisional L-SCTL of 7 µg/kg, and below the provisional R-SCTL of 1,300 µg/kg, at 8 locations, as detailed below.
 - Two locations southwest of the Storm Water Pond and New Burn Building Block areas: SB-292 (from 0-0.5 ft BLS) and SB-293 (each interval from 0 to 4 ft BLS);
 - Two locations northeast of the Training Tower Block: SB-301 and SB-304; and
 - Four locations off-Site to the north: SB-305 (0 to 0.5 ft BLS), SB-306 (each interval from 0 to 8 ft BLS), SB-307 (each interval from 0 to 8 ft BLS), and SB-309 (0.5 to 2 and 2 to 4 ft BLS).

The results indicate PFOA and PFOS soil impacts were horizontally delineated within the Hazmat Area and south of the Training Tower Block Area. However, PFOA and/or PFOS soil impacts have not been horizontally delineated to the off-Site to the north or on-Site southwest of the Storm Water Pond and New Burn Building Block areas. As discussed in **Section 2.3**, multiple storm water grates are located within the paved roads around the training areas and buildings on Site. These grates discharge to the Storm Water Pond located in the northern portion of the Site. Overflow from the Storm Water Pond drains to the north into a wooded area. This overflow may have transported PFAS off-Site and contributed to the off-Site provisional L-SCTL exceedances observed to the north of the Site property boundary.

The comprehensive soil results (**Figures 11 through 13**) indicate PFAS soil impacts are present at multiple depth intervals from land surface to the water table (approximately 35 to 45 ft BLS) across the Site. They also indicate that delineation is incomplete. To evaluate the horizontal extent of provisional L-SCTL exceedances in soil, the collection of additional soil samples is warranted.

4.4 Groundwater Assessment

Previous groundwater assessment activities included installing and sampling monitoring wells at 20 locations (DEPMW-1 through DEPMW-20) and conducting DPT groundwater sampling at 14 locations (SP-1 through SP-14). Based on the results from previous Site assessment activities, Geosyntec proposed collecting DPT groundwater samples from up to 24 additional boring locations (SP-15 to SP-38) to refine our understanding of the horizontal and vertical extents of PFAS in groundwater across the Site, off-Site, and adjacent to supply wells with concentrations of PFAS greater than provisional GCTLs. In addition, Geosyntec proposed collecting groundwater samples from five Site monitoring wells to monitor locations with concentrations below or near provisional GCTLs for PFOA, PFOS, and/or PFOA+PFOS. Well construction details are summarized in **Table 3**. Monitoring well and supply well locations are presented on **Figure 4**. Screen point sampling locations are presented on **Figures 5 and 6**.

4.4.1 Depth-to-Groundwater and Monitoring Well Sampling Methodology

Geosyntec measured DTW in the 20 wells within the FSFC monitoring well network [DEPMW-1 (100-120') through DEPMW-20 (30-50')] and 4 wells at nearby Petroleum Restoration Program (PRP) sites [CCDW-1, CCMW-3, CKMW-7D, CKMW-17] on 21 February 2022 prior to groundwater sampling activities. DTW was not measured at the staff gauge during this mobilization. Groundwater levels were measured to the nearest 0.01 ft using an electronic water-level indicator.

Groundwater samples were collected from 5 monitoring wells [DEPMW-2 (35-55'), DEPMW-6 (100-120'), DEPMW-9 (40-60'), DEPMW-15 (35-55'), and DEPMW-19 (45-65')] between 21 February 2022 and 22 February 2022 via a submersible pump after stabilization of water quality parameters (i.e., temperature, conductivity, pH, turbidity, and dissolved oxygen). One duplicate sample was collected at monitoring well DEPMW-2 [sample labeled DEPMW-2 (35-55') DUP]. Groundwater sampling logs and calibration forms are included with the field notes in **Appendix D**. The laboratory analytical reports are provided in **Appendix E**. Purge water generated during well sampling activities was containerized in drums and transported off-Site for disposal (see **Section 4.6**).

QA/QC samples from the February 2022 event associated with monitoring well sampling consisted of 1 field reagent blank (FRB-33) that was collected near on-Site monitoring wells and 1 equipment blank (EQB-71) that was collected from one of the submersible pumps used for sampling. Detections of PFOS (12 ng/L), perfluorooctane sulfonamide (FOSA; 0.56 I ng/L), and n-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA; 1.1 I ng/L) were noted in the equipment blank collected from the submersible pump. The well sampled prior to equipment blank collection [DEPMW-19 (45-65')] had high turbidity during purging and sampling, and Geosyntec attributes the detections to carryover from the fines within the pump left overnight. However, the detections of these PFAS in the sample collected using the pump after the equipment blank was collected [DEPMW-15 (35-55')] had lower detections than those in EQB-71 or no detections. Thus, the data from DEPMW-15 (35-55') is valid for the purpose of this assessment, and the detections of PFAS in the equipment blank do not pose a cross-contamination concern.

4.4.2 Direct Push Groundwater Sampling Methodology

Geosyntec subcontracted Preferred Drilling Solutions (PDS) to conduct DPT groundwater sampling in February and March 2022. DPT groundwater samples were collected using a 4-ft DPT groundwater sampler. Groundwater samples were collected by inserting new high-density polyethylene (HDPE) tubing through the drilling rods to the groundwater sampler and pumping water via peristaltic pump and manual lifting. The completed groundwater borings were backfilled with bentonite pellets and/or Portland cement.

A total of 83 DPT groundwater samples (including 8 duplicates) were collected from 17 screen point locations (SP-15, SP-16, SP-18, SP-19, SP-21 through SP-27, SP-29 through SP-31, SP-34, SP-36, and SP-37). Sampling activities could not be conducted at two screen point locations (SP-17 and SP-20) due to utility conflicts within the permitted right-of-way locations. In addition, Geosyntec attempted to collect samples from four screen point locations (SP-28, SP-28A, SP-35,

and SP-38); however, refusal was encountered at these locations before groundwater was observed. Due to time constraints, sampling was not attempted at locations SP-32 or SP-33.

The laboratory analytical reports associated with DPT groundwater sampling activities are provided in **Appendix E**. Purge water and decontamination water generated during DPT groundwater sampling activities were containerized and transported off-Site for disposal (see **Section 4.6**).

QA/QC samples from February and March 2022 associated with DPT groundwater sampling includes eight equipment blanks (EQB-79 through EQB-86) that were collected from decontaminated screen point samplers and two field reagent blanks (FRB-35 and FRB-36) that concurrent with groundwater sampling activities. Field reagent blank FRB-36 was collected while rain was encountered during sampling activities. No detections were noted in the QA/QC samples collected as part of DPT groundwater sampling activities.

4.4.3 Groundwater Elevation Results

DTW measurements and surveyed top-of-casing elevations were used to calculate groundwater elevations presented in **Table 4**. The groundwater elevation data were plotted, and groundwater elevation maps are provided on **Figure 33** (wells screened from 30 to 80 ft BLS) and **Figure 34** (wells screened from 90 to 120 ft BLS). Screened intervals selected for each map are to evaluate groundwater flow in water table monitoring wells (screened between 30 and 80 ft BLS) and deeper monitoring wells within the FSFC network and nearby PRP sites (screened from 90 to 120 ft BLS). DTW measurements collected from monitoring wells in February 2022 ranged from approximately 34 to 67 ft BLS.

Based on an evaluation of groundwater elevation data, groundwater in the wells screened within both depth intervals was generally flowing south/southeast, across the Site in February 2022. These results are generally consistent with observed historic flow directions (**Appendix C**). The groundwater contour maps from both the 30 to 80 and 90 to 120 ft BLS depth intervals also appear to show an area of groundwater convergence in the northern portion of the Site and to the north of the Site. As a result, a north-northwesterly groundwater flow component may be present near the Former Drum and Tote Area (AOC 1) and may explain the elevated PFOA+PFOS concentrations in groundwater north-northeast of this area (See **Section 4.4.4**). The groundwater convergence corresponds with supply well locations at FSFC and off-Site at Lhoist, and the observed convergence may be attributed to groundwater withdrawal at these locations. The installation of additional monitoring wells in this area is warranted to confirm groundwater flow direction.

As discussed in **Section 3.3**, the difference in groundwater elevations between water table (i.e., screened between 30 and 80 ft BLS) and deeper wells (i.e., screened between 90 to 120 ft BLS) in each well pair are typically less than 0.1 ft, which indicates that a strong vertical hydraulic gradient is not present. With the exception of two well clusters [DEPMW-18 (100-120')/DEPMW-19 (45-65') and CKMW-7D/CKMW-17], which were within 0.2 ft of each other, the difference in groundwater elevations between each well cluster in February 2022 was consistent with historic observations. The similar groundwater flow direction and groundwater elevations in the shallow and deeper wells, along with observed lithology during well installation activities (**Section 3.2**)

demonstrates that these wells are installed in the Ocala Limestone Fm of the Upper Floridan aquifer.

4.4.4 Groundwater Sampling Results and Conclusions

Laboratory analytical results from groundwater samples collected in February and March 2022 are summarized in **Table 5** (monitoring well results), **Table 6** (supply well results), and **Table 7** (DPT groundwater sampling results). The maximum concentrations of PFOA+PFOS identified at each sampling location to date are presented on **Figure 35** (on-Site and northern sampling locations), **Figure 36** (on-Site and southern sampling locations), and **Figure 37** (on-Site sampling locations). To better evaluate the changes in magnitude and extent of PFOA+PFOS with depth, the following figures were prepared:

- **Figure 38** presents the maximum concentrations from samples generally collected at or just below the water table (30 to 75 ft BLS);
- **Figure 39** presents the maximum concentrations generally between the screened intervals of the Site-wide FSFC monitoring well network (75 to 100 ft BLS), which includes Supply Well #8 at Lhoist screened from 77 to 100 ft BLS; and
- **Figure 40** presents the maximum concentrations generally in the deeper monitoring wells and other supply wells at FSFC and Lhoist (greater than 100 ft BLS).

Groundwater was typically encountered at the screen point locations between approximately 40 and 70 ft BLS in February and March 2022. However, groundwater was not encountered before the 91 to 95 ft BLS interval at SP-25, only from the 61 to 65 and 111 to 115 ft BLS intervals at SP-26, and not before 81 to 85 ft BLS at SP-37, which suggests that the water table may be much deeper in these areas. This data has been included on **Figures 38, 39, and 40** based on the depth intervals listed above for the purposes of discussion.

The objectives of the DPT groundwater sampling activities during this event were to refine our understanding of the horizontal and vertical extent of PFOA+PFOS on- and off-Site and to delineate the extent of groundwater greater than provisional GCTLs. Results from the February and March 2022 sampling event indicate the following:

- Monitoring well results from samples collected at DEPMW-2 (35-55'), DEPMW-6 (100-120'), DEPMW-9 (40-60'), DEPMW-15 (35-55'), and DEPMW-19 (45-65') in February and March 2022 were consistent with those collected in March and April 2021.
- Concentrations of PFOA and/or PFOS were detected above the laboratory method detection limit in at least one interval at 15 of the 17 screen point locations sampled in 2022. Of the locations with detections, concentrations of PFOA and/or PFOS were greater than provisional GCTLs in at least one sampling interval at 7 of the 15 locations with the highest concentrations detected at SP-31 located along the north/northeastern property boundary at FSFC.

Summary of Source Area Concentrations

Historic soil sampling data indicated that the Former Drum and Tote Area (AOC 1) represented a significant source area. Approximately 46% of the PFOS mass within this area (Geosyntec, 2020) was removed as part of the ISR activities in April 2021 and an impermeable liner was placed to limit infiltration through the remaining mass left in place. Groundwater assessment indicates that groundwater within and adjacent to the Former Drum and Tote Area (AOC 1) is impacted with concentrations of PFOA+PFOS greater than 70,000 ng/L (1,000x the provisional GCTL) in some samples, and impacted groundwater extends from the water table down to a depth of at least 120 ft BLS [as indicated by samples collected from DEPMW-17 (100-120')]. Based on the limited groundwater elevation data available in this area, DEPMW-17 (100-120') appears to be located upgradient of the Former Drum and Tote Area (AOC 1) but groundwater flow within the water table monitoring wells and knowledge of groundwater extraction activities at Well #8 suggest that groundwater may locally flow from the Former Drum and Tote Area (AOC 1) to the north. Additionally, as discussed in **Section 4.4.3**, the presence of a groundwater convergence in this area may be attributed to groundwater withdrawal at the supply well locations and may explain the elevated PFOA+PFOS concentrations in groundwater to the north-northwest. The installation of additional monitoring wells in this area is warranted to better understand groundwater flow direction along the northern Site property boundary.

Summary of Concentrations from 30 to 75 ft BLS

Impacted groundwater has migrated from the Former Drum and Tote Area (AOC 1) within the 30 to 75 ft BLS depth interval. PFOA+PFOS concentrations between 7,000 and 70,000 ng/L have been observed south of this area at DEPMW-20 (30-50'), SP-1 (from 36 to 60 ft BLS), and SP-12 (from 51 to 75 ft BLS). Concentrations of PFOA+PFOS between 7,000 and 70,000 ng/L were also observed west of the Former Drum and Tote Area (AOC 1) at SP-3 (from 66 to 75 ft BLS) and SP-11 (from 41 to 75 ft BLS). Concentrations greater than 70,000 ng/L were observed at SP-13 (51 to 55 ft BLS) and SP-31 (51 to 55 ft BLS). The distribution and transport of PFOA+PFOS concentrations in this area are not well understood and could be associated with the apparent groundwater convergence discussed in **Section 4.4.2** or other Site-related characteristics (e.g., preferential flow zones, pumping from nearby wells, etc.). Additional investigations are warranted to evaluate the extent and magnitude of PFOA+PFOS on Site and groundwater flow around the Former Drum and Tote Area (AOC 1).

Further south both on- and off-Site, PFOA+PFOS concentrations decrease to between 70 and 700 ng/L in the samples collected at or just below the water table [DEPMW-2 (35-55'), DEPMW-5 (50-70'), DEPMW-19 (45-65'), and SP-4]. Concentrations of PFOA+PFOS in samples collected farthest south (SP-23, SP-24, and SP-26) are less than the provisional GCTL, but data gaps exist to the southwest and southeast of the Site due to horizontal spacing between groundwater sampling locations. Additional groundwater assessment may be warranted to horizontally delineate the PFOA+PFOS west-southwest of DEPMW-19 (45-65') and to fill data gaps between SP-24 and SP-26.

West on- and off-Site, concentrations of PFOA+PFOS in water table monitoring well DEPMW-7 (30-50') and screen point sampling locations SP-21, and SP-22 are below the provisional GCTL from 30 to 75 ft BLS. However, data gaps exist due to the horizontal spacing between sampling points in this area (specifically between SP-21 and SP-22). In the Hazmat Field area, concentrations of PFOA+PFOS between 70 and 700 ng/L are present from 61 to 65 ft BLS at SP-36, between 700 and 7,000 ng/L from 41 to 45 ft BLS at SP-10, and from 7,000 to 70,000 ng/L from 71 to 75 ft BLS at SP-3. Data gaps are present in the horizontal delineation from 30 to 75 ft BLS off-Site, directly west of these borings. Additional groundwater assessment is warranted to evaluate the horizontal extent of PFOA+PFOS in this area.

North of the Site along Northwest Gainesville Road and West Highway 329, concentrations of PFOA+PFOS are less than the provisional GCTL in the samples collected at DEPMW-11 (30-50'), DEPMW-13 (40-60'), and CCMW-3 (60-80'), SP-15, and SP-16. Immediately north of the Site, the concentrations of PFOA+PFOS were between 700 and 7,000 ng/L from 41 to 65 ft BLS at SP-19 and 41 to 75 ft BLS at SP-30. Further north, the concentrations decreased to between 70 and 700 ng/L from 71 to 85 ft BLS at SP-18 and SP-19. However, due to the horizontal spacing between sampling locations, data gaps exist in the horizontal delineation. Additional groundwater assessment activities are warranted north of the Site to confirm concentrations observed during DPT groundwater sampling and to fill data gaps.

East of the Site at Lhoist, concentrations of PFOA+PFOS were detected between 70 and 700 ng/L at SP-29 from 41 to 75 ft BLS. Further east, concentrations of PFOA+PFOS were less than the provisional GCTL at DEPMW-9 (40-60'), SP-26, and SP-27. Additional groundwater assessment is warranted east of the Site to confirm and delineate the extent of PFOA+PFOS.

Summary of Concentrations from 75 to 100 ft BLS

No groundwater samples have been collected from the 75 to 100 ft BLS interval in the Former Drum and Tote Area (AOC 1). However, the highest concentrations of PFOA+PFOS observed from 75 to 100 ft BLS are located north-northwest of this area (at SP-31 and Well #8), and the limited data collected to date suggest that concentrations decrease outward in all directions from the Former Drum and Tote Area (AOC 1). The delineation of PFOA+PFOS in this interval has been complicated due to utility conflicts to the northwest of the Site, deeper water tables to the southeast of the Site, and shallow refusal to the north and east of the Site. Additional groundwater assessment is warranted from 75 to 100 ft BLS to address data gaps associated with the broadly spaced sampling locations.

An apparent, isolated area of PFOA+PFOS groundwater contamination is also located further south of the Site at SP-25, with limited samples surrounding this location. Samples collected west of SP-25 (at SP-24 and SP-37) were below the provisional GCTL. Delineation of PFOA+PFOS from 75 to 100 ft BLS is incomplete in this area, and additional groundwater assessment is warranted.

Summary of Concentrations greater than 100 ft BLS

Concentrations of PFOA+PFOS were detected between 700 and 7,000 ng/L on Site at monitoring well DEPMW-17 (100-120'), on Site in the FSFC Supply Well, off-Site at screen point sampling location SP-19 (north of the Site), and off-Site in Well #5 AC (east of the Site). The elevated concentrations in the FSFC Supply Well and Well #5 AC may be related to groundwater withdrawal from these wells, and the presence of PFOA+PFOS concentration in Well#5 AC (screened from 140 to 240 ft BLS) between 700 ng/L and 7,000 ng/L suggests that groundwater could be impacted to a depth of 240 ft BLS. These results indicate that vertical delineation is incomplete and additional groundwater assessment is warranted to vertically delineate PFOA+PFOS.

Horizontal delineation of PFOA+PFOS from 100 to 120 ft BLS is also incomplete due to data gaps from the horizontal spacing between sampling locations. Additional groundwater assessment is warranted to aid with horizontal and vertical delineation of PFOA+PFOS at depths greater than 100 ft BLS.

4.5 Decontamination Procedures

Decontamination activities were performed in accordance with Geosyntec internal SOPs for PFAS sampling either at a designated staging and laydown area or at each monitoring well location. Decontaminated equipment was staged on clean plastic sheeting prior to use. Decontamination fluids were drummed as investigation derived waste (IDW) and disposed off-Site.

Decontamination procedures utilized for non-disposable, reusable soil and groundwater sampling equipment included decontaminating the sampling equipment in 5-gallon HDPE buckets. This sampling equipment was first submerged and scrubbed in one 5-gallon HDPE bucket filled with a solution of Liquinox detergent and PFAS-free water provided by Preferred Drilling Solutions, Inc. and then submerged in two 5-gallon HDPE buckets filled with PFAS-free water. For submersible pump decontamination, soapy, PFAS-free water was pumped through the pump and re-circulated within the bucket. The equipment was rinsed with PFAS-free water in spray bottles after the first and third buckets. Equipment blanks from a submersible pump (EQB-71) and decontaminated hand augers (EQB-72 to EQB-78) were collected in February 2022, as discussed in **Section 4.4.1** and **4.3.2**, respectively.

Decontamination procedures followed for DPT groundwater sampling equipment included pressure washing and scrubbing DPT tooling and samplers. Drilling equipment was decontaminated using a pressure washer and Liquinox detergent followed by a series of rinses using PFAS-free water over a constructed wooden decontamination pit covered in plastic sheeting that collected decontamination fluids. During decontamination both the exterior and interior of the drill tooling was scrubbed using a combination of clean rags and wire brushes. Decontaminated equipment was staged on clean plastic sheeting prior to use. Decontamination fluids were drummed as IDW and disposed off-Site. Equipment blanks were collected from decontaminated DPT groundwater sampling equipment (EQB-79 through EQB-86) prior to sampling, as discussed in **Section 4.4.2**.

4.6 Investigation Derived Waste

A total of 18 drums of IDW (1 containing soil IDW and 17 containing liquid IDW) were generated during the February and March 2022 assessment event from decontamination activities and monitoring well purge water. A field drum inventory is provided in **Appendix D**. Erwin Remediation removed the 18 drums for off-Site disposal on 21 April 2022. The final IDW manifest is provided in **Appendix F**.

5. CONCLUSIONS

During Site assessment activities between March 2019 and March 2022, Geosyntec collected samples of Site media (soil and groundwater) for laboratory analysis of up to 36 individual PFAS. The concentrations of PFOA and PFOS in soil and groundwater were screened against provisional CTLs. The results indicated the following:

- The results indicate PFOA and PFOS soil impacts were horizontally delineated from 0 to 0.5, 0.5 to 2, and 2 to 4 ft BLS within the Hazmat Area and south of the Training Tower Block Area. However, PFOA and PFOS soil impacts have not been horizontally delineated off-Site to the north, or on-Site southwest of the Storm Water Pond and New Burn Building Block areas. Comprehensive results across the Site indicate there are PFOA and/or PFOS soil impacts at multiple depth intervals from land surface to the water table (approximately 35 ft BLS) across the Site. The greatest soil impacts above provisional CTLs across the Site are associated with PFOS, and the highest concentrations were detected in the Former Drum and Tote Area (AOC 1). Soil analytical results from the comprehensive sampling event show PFOS greater than its L-SCTL in the majority of the collected samples throughout the Site. Based on the comprehensive soil sampling analytical results, delineation is incomplete. To evaluate the horizontal extent of provisional L-SCTL exceedances in soil, the collection of additional soil samples is warranted.
- The depth to groundwater varies greatly across the Site and off-Site and has typically been encountered between 36 and 65 ft BLS in monitoring well and screen point locations. However, in some off-Site sampling locations groundwater was not encountered until approximately 80 ft BLS and as much as 110 ft BLS.
- Groundwater flow in the monitoring wells screened from 30 to 80 and 90 to 120 ft BLS was consistent with historic flow directions and generally flowing south/southeast, across the Site in February 2022. Groundwater contour maps also appear to show an area of groundwater convergence in the northern portion of the Site and to the north of the Site. As a result, a north-northwesterly groundwater flow component may be present near the Former Drum and Tote Area (AOC 1) and may explain the elevated PFOA+PFOS concentrations in groundwater north-northeast of this area. This corresponds with supply well locations at FSFC and off-Site at Lhoist and the observed convergence may be attributed to groundwater withdrawal at these locations. A strong vertical hydraulic gradient is not present and the similar groundwater flow direction and groundwater elevations in the shallow and deeper wells demonstrates that these wells are installed in the Ocala Limestone Fm of the Upper Floridan aquifer. Additional monitoring wells are warranted to evaluate groundwater flow direction in the north and central portions of the Site.
- Groundwater concentrations of PFOA, PFOS, and/or PFOA+PFOS were above provisional GCTLs both in the 30 to 80 ft BLS and 90 to 120 ft BLS depth intervals

from monitoring wells, in samples collected from screen point locations between 36 and 115 ft BLS, and in supply wells with depths as great as 240 ft BLS.

- PFOA+PFOS concentrations in groundwater are highest within and adjacent to the Former Drum and Tote Area (AOC 1) in the northern portion of the Site.
- Elevated PFOA+PFOS concentrations are also observed near the northeastern property boundary and off-Site within supply wells at Lhoist. Based on the distribution of groundwater concentrations and the locations of supply wells, it is suspected that groundwater may flow to the north of the Former Drum and Tote Area (AOC 1) at certain intervals. Additionally, the presence of a groundwater convergence in this area may be attributed to groundwater withdrawal at the supply well locations and may explain the elevated PFOA+PFOS concentrations in groundwater to the north-northwest.

Historic soil sampling data indicated that the Former Drum and Tote Area (AOC 1) represented a significant source area. Groundwater within and adjacent to the Former Drum and Tote Area (AOC 1) is impacted with concentrations of PFOA+PFOS greater than 1,000x the provisional GCTL at some depths. Additionally, concentrations are greater than at least 100x the provisional GCTL from the water table down to a depth of at least 120 ft BLS in this area. The PFOA+PFOS concentration in supply Well#5 AC (to the east on Lhoist property and screened from 140 to 240 ft BLS) is between 10x and 100x the provisional GCTL, suggesting that groundwater could be impacted to a depth of 240 ft BLS. Vertical delineation is incomplete within and around the Former Drum and Tote Area (AOC 1), and additional groundwater assessment is warranted.

In the 30 to 75 ft BLS interval, elevated PFOA+PFOS groundwater concentrations between 100x and 1,000x the provisional GCTL were detected to the west and south of the Former Drum and Tote Area (AOC 1), and concentrations between 10x and 100x the provisional GCTL were detected to the north and east. The groundwater flow from the Former Drum and Tote Area (AOC 1) and the extent and magnitude of PFOA+PFOS concentrations in this area are not well understood and could be associated with the apparent groundwater convergence discussed in **Section 4.4.3** or other Site-related characteristics. Based on the limited groundwater elevation data available in this area and presence of active supply wells, the installation of additional monitoring wells from 30 to 75 ft BLS in this area is warranted to better understand groundwater flow direction. The concentrations of PFOA+PFOS are below the provisional GCTL in the outermost sampling locations; however, horizontal delineation from 30 to 75 ft BLS is incomplete based on data gaps associated with the large spacing between these sampling locations. Additional groundwater assessment is warranted to better understand the horizontal contaminant distribution in shallow groundwater.

Similar to the 30 to 75 ft depth interval, the highest concentrations of PFOA+PFOS detected from 75 to 100 ft BLS are near the Former Drum and Tote Area (AOC 1). Concentrations between 10x and 100x the provisional GCTL were observed in the northern portion of the Site and off-Site to the north. Concentrations of PFOA+PFOS from 75 to 100 ft BLS drop to between 1x and 10x the provisional GCTL further west, north, and east of the Former Drum and Tote Area (AOC 1). Data

gaps in horizontal delineation exist from 75 to 100 ft BLS, and additional groundwater assessment is warranted. Assessment activities have been complicated due to utility conflicts to the northwest of the Site, deeper water tables to the southeast of the Site, and shallow refusal to the north and east of the Site that prohibited samples from being collected. Additionally, delineation around SP-25 is warranted south of the Site.

Concentrations of PFOA+PFOS between 10x and 100x the provisional GCTL were observed from 100 to 120 ft BLS on-Site near the Former Drum and Tote Area (AOC 1) and north of the Site. Concentrations of a similar magnitude were also observed in the FSFC Supply Well (screened 118 to 170 ft BLS) and Well #5 AC (screened from 140 to 240 ft BLS). These results indicate that vertical delineation is incomplete. Additional groundwater assessment is warranted to vertically delineate PFOA+PFOS in these areas. Horizontal delineation of PFOA+PFOS from 100 to 120 ft BLS is also incomplete due to the horizontal spacings between sampling locations. Additional groundwater assessment is warranted to aid with horizontal delineation of PFOA+PFOS at depths greater than 100 ft BLS.

DPT groundwater sampling activities in February and March 2022 were effective at providing data on the large scale, horizontal and vertical extent of PFOA+PFOS. Due to the large spacing between sampling locations, data gaps also exist that require additional assessment to complete horizontal delineation activities. Based on the results from this and past assessments, groundwater is impacted from the water table to at least 100 to 120 ft BLS in areas on-Site and off-Site to the north and may be impacted as deep as 240 ft BLS. Well installation or other groundwater assessment activities in these areas are warranted to vertically delineate the extent of PFOA+PFOS.

6. RECOMMENDATIONS

Additional soil and groundwater assessment activities are warranted to delineate the horizontal and vertical extents of PFOA and PFOS in Site media. Geosyntec recommends conducting a teleconference with FDEP to discuss the results of this assessment and a proposed path forward. Geosyntec recommends the following as potential next steps:

- Conduct additional soil sampling to delineate the overall extent of provisional L-STCL exceedances in soil;
- Conduct additional groundwater assessment, which may include DPT groundwater sampling, roto sonic screen point sampling, and/or installation of additional monitoring wells, to delineate the horizontal and vertical extent of PFOA+PFOS concentrations exceeding the provisional GCTL off-Site; and
- Conduct additional groundwater assessment on-Site to evaluate groundwater flow within the higher concentration areas and aid in the continued development of a conceptual Site model. Understanding groundwater flow within and from the source area(s) at the Site will assist with understanding the transport of PFOA and PFOS off-Site and may provide additional information regarding impacts to groundwater flow from supply well operations at and adjacent to the Site.

Following discussions with the FDEP, a Work Plan summarizing the proposed sampling activities will be submitted under a separate cover.

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TABLES



**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
AND CRITERIA**
Florida State Fire College

Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria	
Soil Samples									
Former Drum and Tote Area (AOC 1)	AOC 1-SB 1	AOC 1-SB 1(0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels	
		AOC 1-SB 1(0.5-2')		0.5-2					
		AOC 1-SB 1(2-4')		2-4					
		AOC 1-SB 1 (4-6')		4-6	DPT				
		AOC 1-SB 1(6-8')		6-8					
		AOC 1-SB 1 (10-12')		10-12					
	AOC 1-SB 2	AOC 1-SB 1 (13-15')		13-15	HA				
		AOC 1-SB 2(0-0.5')		0-0.5					
		AOC 1-SB 2(0.5-2')		0.5-2					
		AOC 1-SB 2(2-4')		2-4	DPT				
		AOC 1-SB 2 (4-6')		4-6					
		AOC 1-SB 2(6-8')		6-8					
	AOC 1-SB 3	AOC 1-SB 2 (10-12')		10-12	HA				
		AOC 1-SB 2 (14-16')		14-16					
		AOC 1-SB 3(0-0.5')		0-0.5					DPT
	AOC 1-SB 4	AOC 1-SB 3(0.5-2')		0.5-2					
		AOC 1-SB 3(2-4')		2-4	HA				
		AOC 1-SB 3(6-8')		6-8					DPT
		AOC 1-SB 5		AOC 1-SB 4(0-0.5')	0-0.5				
	AOC 1-SB 4(0.5-2')			0.5-2					
	AOC 1-SB 4(2-4')			2-4	DPT				
	AOC 1-SB 4(6-8')			6-8					
	AOC 1-SB 5(0-0.5')			0-0.5					HA
	AOC 1-SB 5(0.5-2')			0.5-2					
	AOC 1-SB 5(2-4')	2-4		DPT					
	AOC 1-SB 6	AOC 1-SB 5(6-8')			6-8				HA
		AOC 1-SB 5 (14-16')			14-16				
		AOC 1-SB 5 (23-25')		23-25					
		AOC 1-SB 5 (33-35')		33-35	DPT				
		AOC 1-SB 6(0-0.5')		0-0.5					
		AOC 1-SB 6(0.5-2')		0.5-2					
		AOC 1-SB 6(2-3')		2-3	HA				
		AOC 1-SB 6 (4-6')		4-6					
		AOC 1-SB 6 (6-8')		6-8					
		AOC 1-SB 6 (10-12')		10-12	DPT				
		AOC 1-SB 6(14-16')		14-16					
		AOC1-SB 6(18-20')		18-20					
	AOC 1-SB 7	AOC1-SB 6(23-25')		23-25	HA				
		AOC1-SB 6(28-30')		28-30					
		AOC1-SB 6(33-35')		33-35					
		AOC1-SB 6(38-40')		38-40	DPT				
	AOC 1-SB 8	AOC1-SB 6(43-45')		43-45					
		AOC 1-SB 7 (4-6')		4-6					
		AOC 1-SB 7 (10-12')		10-12					
		AOC 1-SB 7 (13-15')		13-15	HA				
	AOC 1-SB 9	AOC 1-SB 8(0-0.5')		0-0.5					
		AOC 1-SB 8(0.5-2')		0.5-2					
		AOC 1-SB 8(2-4')		2-4	DPT				
		AOC 1-SB 8(6-8')		6-8					
	AOC 1-SB 10	AOC 1-SB 8(10-12')		10-12					HA
		AOC 1-SB 8(14-16')		14-16					
		AOC 1-SB 9(0-0.5')		0-0.5					
		AOC 1-SB 9(0.5-2')		0.5-2	DPT				
		AOC 1-SB 9(2-4')		2-4					
		AOC 1-SB 9 (4-6')		4-6					
	AOC 1-SB 11	AOC 1-SB 9(6-8')		6-8	HA				
		AOC 1-SB 9(10-12')		10-12					
		AOC 1-SB 9(14-16')		14-16					
		AOC 1-SB 10(0-0.5')		0-0.5	DPT				
		AOC 1-SB 10(0.5-2')		0.5-2					
		AOC1-SB 11(2-4')		2-4					
	AOC 1-SB 11	AOC1-SB 11(6-8')		6-8	HA				
		AOC1-SB 11(10-12')		10-12					
		AOC1-SB 11(14-16')		14-16					
		AOC1-SB 11(18-20')		18-20					

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
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Florida State Fire College**

Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Former Drum and Tote Area (AOC 1)	AOC 1-SB 12	AOC 1-SB 12(0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		AOC 1-SB 12(0.5-2')		0.5-2				
		AOC 1-SB 12 (2-4')		2-4				
		AOC 1-SB 12 (4-6')		4-6	DPT			
		AOC 1-SB 12 (6-8')		6-8				
		AOC 1-SB 12 (10-12')		10-12				
		AOC 1-SB 12 (13-15')		13-15				
	AOC 1-SB 13	AOC 1-SB 13(0-0.5')		0-0.5	HA			
		AOC 1-SB 13(0.5-2')		0.5-2				
		AOC1-SB 13(2-4')		2-4				
		AOC1-SB 13(6-8')		6-8	DPT			
		AOC1-SB 13(10-12')		10-12				
		AOC1-SB 13(14-16')		14-16				
		AOC 1-SB 14(0-0.5')		0-0.5				
	AOC 1-SB 14(0.5-2')	0.5-2						
	AOC1-SB 14(2-4')	2-4						
	AOC 1-SB 14 (6-8)	6-8		DPT				
	AOC 1-SB 14 (10-12)	10-12						
	AOC11-SB 14(14-16')	14-16						
	AOC 1-SB 15	AOC 1-SB 15(0-1')			0-1			
		AOC 1-SB 15(1-2')		1-2				
		AOC 1-SB 15(2-3.5')		2-3.5				
		AOC 1-SB 15(6-8')		6-8	DPT			
		AOC 1-SB 16		AOC 1-SB 16(0-0.5')	0-0.5			
	AOC 1-SB 16(0.5-2')			0.5-2				
	AOC 1-SB 16(2-4')			2-4				
	AOC 1-SB 16(6-8')			6-8	DPT			
	AOC 1-SB 16(10-12')			10-12				
	AOC 1-SB 16(14-16')			14-16				
	AOC 1-SB 17(0-0.5')			0-0.5				
	AOC 1-SB 17(0.5-2')	0.5-2						
	AOC 1-SB 17(2-4')	2-4						
	AOC 1-SB 17 (4-6')	4-6		DPT				
	AOC 1-SB 17(6-8')	6-8						
	AOC 1-SB 17(10-12')	10-12						
	AOC 1-SB 17(14-16')	14-16						
	AOC 1-SB 18	AOC 1-SB 18(0-0.5')		0-0.5	HA			
		AOC 1-SB 18(0.5-2')		0.5-2				
		AOC 1-SB 18 (2-4')		2-4				
		AOC 1-SB 18 (4-6')		4-6	DPT			
		AOC 1-SB 18(6-8')		6-8				
		AOC 1-SB 18(10-12')		10-12				
		AOC 1-SB 18(14-16')		14-16				
	AOC 1-SB 19	AOC 1-SB 19(0-0.5')		0-0.5	HA			
		AOC 1-SB 19(0.5-2')		0.5-2				
		AOC 1-SB 19(2-3')		2-3				
		AOC 1-SB 19 (4-6')		4-6	DPT			
		AOC 1-SB 19 (6-8')		6-8				
		AOC 1-SB 19 (10-12')		10-12				
		AOC 1-SB 19 (13-15')		13-15				
	AOC 1-SB 19(14-16')	14-16						
	AOC 1-SB 20	AOC 1-SB 20(0-0.5')		0-0.5	HA			
		AOC 1-SB 20(0.5-2')		0.5-2				
		AOC 1-SB 20(2-4')		2-4				
		AOC 1-SB 20(6-8')		6-8	DPT			
		AOC 1-SB 20(10-12')		10-12				
	AOC 1-SB 20(14-16')	14-16						
	AOC 1-SB 21	AOC 1-SB 21(0-0.5')		0-0.5	HA			
		AOC 1-SB 21(0.5-2')		0.5-2				
		AOC 1-SB 21 (2-4')		2-4				
		AOC 1-SB 21 (4-6')		4-6	DPT			
		AOC 1-SB 21 (6-8')		6-8				
		AOC 1-SB 21 (10-12')		10-12				
	AOC 1-SB 22	AOC 1-SB 21 (13-15')		13-15	HA			
		AOC 1-SB 22(0-0.5')		0-0.5				
		AOC 1-SB 22(0.5-2')		0.5-2				
		AOC 1-SB 22 (2-4')		2-4	DPT			
		AOC 1-SB 22 (4-6')		4-6				
		AOC 1-SB 22 (6-8')		6-8				
		AOC 1-SB 22 (10-12')		10-12				
		AOC 1-SB 22 (14-16')		14-16				
		AOC 1-SB 22 (23-25')		23-25				
		AOC 1-SB 22 (33-35')		33-35				
	AOC 1-SB 22 (37.5-39.5')	37.5-39.5						

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria	
Former Drum and Tote Area (AOC 1)	AOC 1-SB 23	AOC 1-SB 23(0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels	
		AOC 1-SB 23(0.5-2')		0.5-2					
		AOC 1-SB 23(2-4')		2-4					
		AOC 1-SB 23(6-8')		6-8	DPT				
		AOC 1-SB 23 (14-16')		14-16					
		AOC 1-SB 23 (23-25')		23-25					
		AOC 1-SB 23 (33-35')		33-35					
		AOC 1-SB 23 (43-45')		43-45					
	AOC 1-SB 24	AOC 1-SB 24(0-0.5')		0-0.5	HA				
		AOC 1-SB 24(0.5-2')		0.5-2					
		AOC 1-SB 24(2-4')		2-4					
		AOC 1-SB 24(6-8')		6-8	DPT				
		AOC 1-SB 24 (13-15')		13-15					
		AOC 1-SB 24 (23-25')		23-25					
		AOC 1-SB 24 (29-31')		29-31					
		AOC 1-SB 25(0-0.5')		0-0.5					HA
	AOC 1-SB 25(0.5-2')	0.5-2							
	AOC 1-SB 25(2-4')	2-4							
	AOC 1-SB 25	AOC 1-SB 25(6-8')		6-8	DPT				
		AOC 1-SB 25 (13-15')		13-15					
		AOC 1-SB 25 (23-25')		23-25					
		AOC 1-SB 25 (31-33')		31-33					
		AOC 1-SB 26(0-0.5')		0-0.5					HA
		AOC 1-SB 26(0.5-2')		0.5-2					
		AOC 1-SB 26(2-4')		2-4					
		AOC 1-SB 26		AOC 1-SB 26(6-8')	6-8				DPT
	AOC 1-SB 26 (13-15')			13-15					
	AOC 1-SB 26 (23-25')			23-25					
	AOC 1-SB 26 (33-35')			33-35					
	AOC 1-SB 26 (36-38')			36-38					
	AOC 1-SB 27(0-0.5')			0-0.5	HA				
	AOC 1-SB 27(0.5-2')			0.5-2					
	AOC 1-SB 27(2-4')			2-4					
	AOC 1-SB 27	AOC 1-SB 27(6-8')		6-8	DPT				
		AOC 1-SB 28 (0-0.5')		0-0.5	HA				
		AOC 1-SB 28 (0.5-2')		0.5-2					
	AOC 1-SB 28	AOC 1-SB 28 (2-4')		2-4	DPT				
		AOC 1-SB 28 (4-6')		4-6					
		AOC 1-SB 28 (6-8')		6-8					
		AOC 1-SB 28 (10-12')		10-12					
		AOC 1-SB 28 (14-16')		14-16					
		AOC 1-SB 28 (23-25')		23-25					
		AOC 1-SB 28 (33-35')		33-35					
		AOC 1-SB 28 (36.5-38.5')		36.5-38.5					
		AOC 1-SB 29 (0-0.5')		0-0.5	HA				
		AOC 1-SB 29 (0.5-2')		0.5-2					
	AOC 1-SB 29	AOC 1-SB 29 (2-4')		2-4	HA				
		AOC 1-SB 30 (0-0.5')		0-0.5					
		AOC 1-SB 30 (0.5-2')		0.5-2					
	AOC 1-SB 30	AOC 1-SB 30 (2-4')		2-4	HA				
		AOC 1-SB 31 (0-0.5')		0-0.5					
		AOC 1-SB 31 (0.5-2')		0.5-2					
	AOC 1-SB 31	AOC 1-SB 31 (2-4')		2-4	HA				
		AOC 1-SB 31 (6-8')		6-8					
		AOC 1-SB 32		AOC 1-SB 32 (0-0.5')	0-0.5				HA
				AOC 1-SB 32 (0.5-2')	0.5-2				
	AOC 1-SB 32 (2-4')			2-4					
	AOC 1-SB 32 (4-6')			4-6					
	AOC 1-SB 32 (6-8')			6-8					
	AOC 1-SB 32 (10-12')			10-12	DPT				
	AOC 1-SB 32 (13-15')			13-15					
	AOC 1-SB 33	AOC 1-SB 33 (0-0.5')		0-0.5	HA				
		AOC 1-SB 33 (0.5-2')		0.5-2					
		AOC 1-SB 33 (2-4')		2-4					
		AOC 1-SB 34		AOC 1-SB 33 (6-8')	6-8				DPT
	AOC 1-SB 34 (0-0.5')			0-0.5	HA				
	AOC 1-SB 34 (0.5-2')			0.5-2					
	AOC 1-SB 34 (2-4')			2-4					
	AOC 1-SB 35	AOC 1-SB 34 (6-8')		6-8	DPT				
		AOC 1-SB 35 (0-0.5')		0-0.5	HA				
		AOC 1-SB 35 (0.5-2')		0.5-2					
		AOC 1-SB 35 (2-4')		2-4					
		AOC 1-SB 35 (6-8')		6-8	DPT				

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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Former Drum and Tote Area (AOC 1)	AOC 1-SB 36	AOC 1-SB 36 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		AOC 1-SB 36 (0.5-2')		0.5-2				
		AOC 1-SB 36 (2-4')		2-4				
		AOC 1-SB 36 (4-6')		4-6	DPT			
		AOC 1-SB 36 (6-8')		6-8				
		AOC 1-SB 36 (10-12')		10-12				
		AOC 1-SB 36 (13-15')		13-15				
		AOC 1-SB 36 (23-25')		23-25				
	AOC 1-SB 36 (33-35')	33-35						
	AOC 1-SB 37	AOC 1-SB 37 (0-0.5')		0-0.5	HA			
		AOC 1-SB 37 (0.5-2')		0.5-2				
		AOC 1-SB 37 (2-4')		2-4				
		AOC 1-SB 37 (4-6')		4-6	DPT			
		AOC 1-SB 37 (6-8')		6-8				
		AOC 1-SB 37 (10-12')		10-12				
		AOC 1-SB 37 (13-15')		13-15				
		AOC 1-SB 37 (23-25')		23-25				
	AOC 1-SB 37 (33-35')	33-35						
	AOC 1-SB 38	AOC 1-SB 38 (0-0.5')		0-0.5	HA			
		AOC 1-SB 38 (0.5-2')		0.5-2				
		AOC 1-SB 38 (2-4')		2-4				
		AOC 1-SB 38 (4-6')		4-6	DPT			
		AOC 1-SB 38 (6-8')		6-8				
		AOC 1-SB 38 (10-12')		10-12				
		AOC 1-SB 38 (13-15')		13-15				
		AOC 1-SB 38 (23-25')		23-25				
	AOC 1-SB 38 (33-35')	33-35						
	AOC 1-SB 39	AOC 1-SB 39 (0-0.5')		0-0.5	HA			
		AOC 1-SB 39 (0.5-2')		0.5-2				
		AOC 1-SB 39 (2-4')		2-4	DPT			
		AOC 1-SB 39 (6-8')		6-8				
	AOC 1-SB 40	AOC 1-SB 40 (0-0.5')		0-0.5	HA			
		AOC 1-SB 40 (0.5-2')		0.5-2				
		AOC 1-SB 40 (2-4')		2-4	DPT			
		AOC 1-SB 40 (6-8')		6-8				
		AOC 1-SB 40 (14-16')		14-16				
		AOC 1-SB 40 (23-25')		23-25				
		AOC 1-SB 40 (33-35')		33-35				
		AOC 1-SB 40 (38-40')		38-40				
	AOC 1-SB 41	AOC 1-SB 41 (0-0.5')		0-0.5	HA			
		AOC 1-SB 41 (0.5-2')		0.5-2				
		AOC 1-SB 41 (2-4')		2-4	DPT			
		AOC 1-SB 41 (6-8')		6-8				
		AOC 1-SB 41 (13-15')		13-15				
		AOC 1-SB 41 (23-25')		23-25				
		AOC 1-SB 41 (30-32')		30-32				
		AOC 1-SB 41 (32-33')		32-33				
	AOC 1-SB 42	AOC 1-SB 42 (0-0.5')		0-0.5	HA			
		AOC 1-SB 42 (0.5-2')		0.5-2				
		AOC 1-SB 42 (2-4')		2-4				
		AOC 1-SB 42 (6-8')		6-8	DPT			
		AOC 1-SB 42 (13-15')		13-15				
		AOC 1-SB 42 (23-25')		23-25				
	AOC 1-SB 43	AOC 1-SB 43 (0-0.5')		0-0.5	HA			
		AOC 1-SB 43 (0.5-2')		0.5-2				
		AOC 1-SB 43 (2-4')		2-4				
		AOC 1-SB 43 (6-8')		6-8	DPT			
		AOC 1-SB 43 (13-15')		13-15				
		AOC 1-SB 43 (23-25')		23-25				
	AOC 1-SB 44	AOC 1-SB 44 (0-0.5')		0-0.5	HA			
		AOC 1-SB 44 (0.5-2')		0.5-2				
		AOC 1-SB 44 (2-4')		2-4				
		AOC 1-SB 44 (6-8')		6-8	DPT			
		AOC 1-SB 44 (13-15')		13-15				
		AOC 1-SB 44 (23-25')		23-25				
	AOC 1-SB 45	AOC 1-SB 44 (32-34')		32-34	DPT			
		AOC 1-SB 44 (35-37')		35-37				
		AOC 1-SB 45 (0-0.5')		0-0.5				
		AOC 1-SB 45 (0.5-2')		0.5-2				
		AOC 1-SB 45 (2-4')		2-4				
		AOC 1-SB 45 (6-8')		6-8	DPT			
	AOC 1-SB 45 (13-15')	13-15						
	AOC 1-SB 45 (23-25')	23-25						

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Florida State Fire College

Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Former Drum and Tote Area (AOC 1)	AOC 1-SB 46	AOC 1-SB 46 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		AOC 1-SB 46 (0.5-2')		0.5-2				
		AOC 1-SB 46 (2-4')		2-4				
		AOC 1-SB 46 (6-8')		6-8	DPT			
		AOC 1-SB 46 (13-15')		13-15				
		AOC 1-SB 46 (23-25')		23-25				
	AOC 1-SB 47	AOC 1-SB 47 (0-0.5')		0-0.5	HA			
		AOC 1-SB 47 (0.5-2')		0.5-2				
		AOC 1-SB 47 (2-4')		2-4				
		AOC 1-SB 47 (6-8')		6-8	DPT			
		AOC 1-SB 47 (13-15')		13-15				
		AOC 1-SB 47 (23-25')		23-25				
		AOC 1-SB 47 (32-34')		32-34				
		AOC 1-SB 47 (35-37')		35-37				
	AOC 1-SB 48	AOC 1-SB 48 (0-0.5')		0-0.5	HA			
		AOC 1-SB 48 (0.5-2')		0.5-2				
		AOC 1-SB 48 (2-4')		2-4				
		AOC 1-SB 48 (6-8')		6-8	DPT			
		AOC 1-SB 48 (13-15')		13-15				
		AOC 1-SB 48 (23-25')		23-25				
		AOC 1-SB 48 (33-35')		33-35				
	AOC 1-SB 49	AOC 1-SB 49 (0-0.5')		0-0.5	HA			
		AOC 1-SB 49 (0.5-2')		0.5-2				
		AOC 1-SB 49 (2-4')		2-4				
		AOC 1-SB 49 (4-6')		4-6	DPT			
		AOC 1-SB 49 (6-8')		6-8				
		AOC 1-SB 49 (10-12')		10-12				
		AOC 1-SB 49 (13-15)		13-15				
		AOC 1-SB 49 (23-25)		23-25				
		AOC 1-SB 49 (33-35)		33-35				
	AOC 1-SB 50	AOC 1-SB 50 (0-0.5')		0-0.5	HA			
		AOC 1-SB 50 (0.5-2')		0.5-2				
		AOC 1-SB 50 (2-4')		2-4				
		AOC 1-SB 50 (4-6')		4-6	DPT			
		AOC 1-SB 50 (6-8')		6-8				
		AOC 1-SB 50 (10-12')		10-12				
		AOC 1-SB50 (13-15)		13-15				
		AOC 1-SB 50 (23-25)		23-25				
	AOC 1-SB 51	AOC 1-SB 50 (33-35)		33-35	HA			
		AOC 1-SB 51 (0-0.5')		0-0.5				
		AOC 1-SB 51 (0.5-2')		0.5-2				
		AOC 1-SB 51 (2-4')		2-4	DPT			
		AOC 1-SB 51 (4-6')		4-6				
		AOC 1-SB 51 (6-8')		6-8				
		AOC 1-SB 51 (10-12')		10-12				
		AOC 1-SB 51 (13-15)		13-15				
		AOC 1-SB 51 (23-25)		23-25				
	AOC 1-SB 52	AOC 1-SB 51 (33-35)		33-35	HA			
		AOC 1-SB 52 (0-0.5')		0-0.5				
		AOC 1-SB 52 (0.5-2')		0.5-2				
		AOC 1-SB 52 (2-4')		2-4	DPT			
		AOC 1-SB 52 (4-6')		4-6				
		AOC 1-SB 52 (6-8')		6-8				
		AOC 1-SB 52 (10-12')		10-12				
		AOC 1-SB 52 (13-15)		13-15				
	AOC 1-SB 53	AOC 1-SB 52 (23-25)		23-25	HA			
		AOC 1-SB 52 (33-35)		33-35				
		AOC 1-SB 53 (0-0.5')		0-0.5				
		AOC 1-SB 53 (0.5-2')		0.5-2	DPT			
		AOC 1-SB 53 (2-4')		2-4				
		AOC 1-SB 53 (4-6')		4-6				
		AOC 1-SB 53 (6-8')		6-8				
		AOC 1-SB 53 (10-12')		10-12				
	AOC 1-SB 54	AOC 1-SB 53 (13-15)		13-15	HA			
		AOC 1-SB 53 (23-25)		23-25				
		AOC 1-SB 53 (33-35)		33-35				
		AOC 1-SB 54 (0-0.5')		0-0.5	DPT			
		AOC 1-SB 54 (0.5-2')		0.5-2				
		AOC 1-SB 54 (2-4')		2-4				
		AOC 1-SB 54 (4-6')		4-6				
		AOC 1-SB 54 (6-8')		6-8				
		AOC 1-SB 54 (10-12')		10-12				
		AOC 1-SB 54 (13-15)		13-15				
		AOC 1-SB 54 (23-25)		23-25				
		AOC 1-SB 54 (33-35)		33-35				

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Former Drum and Tote Area (AOC 1)	AOC 1-SB 55	AOC 1-SB 55 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		AOC 1-SB 55 (0.5-2')		0.5-2				
		AOC 1-SB 55 (2-4')		2-4				
		AOC 1-SB 55 (4-6')		4-6	DPT			
		AOC 1-SB 55 (6-8')		6-8				
		AOC 1-SB 55 (10-12')		10-12				
		AOC 1-SB 55 (13-15')		13-15				
		AOC 1-SB 55 (23-25')		23-25				
		AOC 1-SB 55 (33-35')		33-35				
	AOC 1-SB 56	AOC 1-SB 56 (0-0.5')		0-0.5	HA			
		AOC 1-SB 56 (0.5-2')		0.5-2				
		AOC 1-SB 56 (2-4')		2-4				
		AOC 1-SB 56 (4-6')		4-6	DPT			
		AOC 1-SB 56 (6-8')		6-8				
		AOC 1-SB 56 (10-12')		10-12				
		AOC 1-SB 56 (13-15')		13-15				
		AOC 1-SB 56 (23-25')		23-25				
		AOC 1-SB 56 (33-35')		33-35				
	AOC 1-SB 57	AOC 1-SB 57 (0-0.5')		0-0.5	HA			
		AOC 1-SB 57 (0.5-2')		0.5-2				
		AOC 1-SB 57 (2-4')		2-4				
	AOC 1-SB 58	AOC 1-SB 58 (0-0.5')		0-0.5	HA			
		AOC 1-SB 58 (0.5-2')		0.5-2				
		AOC 1-SB 58 (2-4')		2-4				
	AOC 1-SB 59	AOC 1-SB 59 (0-0.5')		0-0.5	HA			
		AOC 1-SB 59 (0.5-2')		0.5-2				
		AOC 1-SB 59 (2-4')		2-4				
New Burn Building Block	AOC 3-SB 1	AOC 3-SB 1(0-1')		0-1	HA			
		AOC 3-SB 1(1-2')		1-2				
		AOC 3-SB 1(2-4')		2-4				
		AOC 3-SB 1(6-8')		6-8	DPT			
		AOC 3-SB 1(10-12')		10-12				
		AOC 3-SB 1(14-16')		14-16				
Hazmat Field	AOC 5-SB 1	AOC 5-SB 1(0-2')		0-2	HA			
		AOC 5-SB 1(2-4')		2-4				
Not Within an Assigned AOC	SB MW-A	SB MW-A (0-2')		0-2	HA			
		SB MW-A (2-4')		2-4				
	SB MW-B	SB MW-B (0-2')		0-2	HA			
SB MW-B (2-4')		2-4						
SB MW-C	SB MW-C (0-2')	0-2		HA				
	SB MW-C (2-4')	2-4						
Storm Water Pond Area	SB-201	SB-201 (0-0.5')		0-0.5	HA			
		SB-201 (0.5-2')		0.5-2				
		SB-201 (2-4')		2-4				
		SB-201 (4-6')		4-6				
		SB-201 (6-8')		6-8	DPT			
		SB-201 (10-12')		10-12				
		SB-201 (13-15')		13-15				
		SB-201 (23-25')		23-25				
	SB-201 (33-35')	33-35						
	SB-202 (0-0.5')	0-0.5		HA				
	SB-202 (0.5-2')	0.5-2						
	SB-202	SB-203 (2-4')		2-4	HA			
		SB-203 (0-0.5')		0-0.5				
		SB-203 (0.5-2')		0.5-2				
	SB-203	SB-203 (2-4')		2-4	HA			
		SB-204 (0-0.5')		0-0.5				
		SB-204 (0.5-2')		0.5-2				
	SB-204	SB-204 (2-4')		2-4	HA			
		SB-205 (0-0.5')		0-0.5				
		SB-205 (0.5-2')		0.5-2				
	SB-205	SB-205 (2-4')		2-4	HA			
		SB-206 (0-0.5')		0-0.5				
		SB-206 (0.5-2')		0.5-2				
	SB-206	SB-206 (2-4')		2-4	HA			
		SB-207 (0-0.5')		0-0.5				
		SB-207 (0.5-2')		0.5-2				
	SB-207	SB-207 (2-4')		2-4	HA			
		SB-208 (0-0.5')		0-0.5				
		Refusal		0.5				
	SB-208	SB-209 (0-0.5')		0-0.5	HA			
		SB-209 (0.5-2')		0.5-2				
		SB-2091 (2-4')		2-4				
	SB-210	SB-210 (0-0.5')		0-0.5	HA			
		SB-210 (0.5-2')		0.5-2				
		SB-210 (2-4')		2-4				

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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Storm Water Pond Area	SB-211	SB-211 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		SB-211 (0.5-2')		0.5-2				
		SB-211 (2-4')		2-4				
		SB-211 (4-6')		4-6	DPT			
		SB-211 (6-8')		6-8				
		SB-211 (10-12')		10-12				
		SB-211 (13-15')		13-15				
		SB-211 (23-25')		23-25				
		SB-211 (33-35')		33-35				
	SB-212	SB-212 (0-0.5')		0-0.5	HA			
		SB-212 (0.5-2')		0.5-2				
		SB-212 (2-4')		2-4				
	SB-213	SB-213 (0-0.5')		0-0.5	HA			
		SB-213 (0.5-2')		0.5-2				
		SB-213 (2-3')		2-3				
		SB-213 (4-6')		4-6	DPT			
		SB-213 (6-8')		6-8				
		SB-213 (10-12')		10-12				
		SB-213 (13-15')		13-15				
		SB-213 (23-25')		23-25				
		SB-213 (33-35')		33-35				
	SB-214	SB-214 (0-0.5')		0-0.5	HA			
		SB-214 (0.5-2')		0.5-2				
		SB-214 (2-4')		2-4				
	SB-215	SB-215 (0-0.5')		0-0.5	HA			
		SB-215 (0.5-2')		0.5-2				
		SB-215 (2-4')		2-4				
	SB-216	SB-216 (0-0.5')		0-0.5	HA			
		SB-216 (0.5-2')		0.5-2				
		SB-216 (2-4')		2-4				
New Burn Building Block, Training Tower Block, and Former Drum and Tote (AOC 1) Areas	SB-217	SB-217 (0-0.5')	0-0.5	HA				
		SB-217 (0.5-2')	0.5-2					
		SB-217 (2-4')	2-4					
	SB-218	SB-218 (0-0.5')	0-0.5	HA				
		SB-218R (0-0.5')	0-0.5					
		SB-218 (0.5-2')	0.5-2					
	SB-219	SB-219 (0-0.5')	0-0.5	HA				
		SB-219 (0.5-2')	0.5-2					
		SB-219 (2-3')	2-3					
	SB-220	SB-220 (0-0.5')	0-0.5	HA				
		SB-220 (0.5-2')	0.5-2					
		SB-220 (2-4')	2-4					
	SB-221	SB-221 (0-0.5')	0-0.5	HA				
		SB-221 (0.5-2')	0.5-2					
		Refusal	2					
	SB-222	SB-222 (0-0.5')	0-0.5	HA				
		SB-222 (0.5-2')	0.5-2					
		SB-222 (2-4')	2-4					
	SB-223	SB-223 (0-0.5')	0-0.5	HA				
		SB-223 (0.5-2')	0.5-2					
		SB-223 (2-4')	2-4					
		SB-223 (4-6')	4-6	DPT				
		SB-223 (6-8')	6-8					
		SB-223 (10-12')	10-12					
		SB-223 (13-15')	13-15					
		SB-223 (23-25')	23-25					
		SB-223 (33-35')	33-35					
	SB-224	SB-224 (0-0.5')	0-0.5	HA				
		SB-224 (0.5-2')	0.5-2					
		SB-224 (2-4')	2-4					
	SB-225	SB-225 (0-0.5')	0-0.5	HA				
		SB-225 (0.5-2')	0.5-2					
		SB-225 (2-4')	2-4					
SB-226	SB-226 (0-0.5')	0-0.5	HA					
	SB-226 (0.5-2')	0.5-2						
	SB-226 (2-4')	2-4						
SB-227	SB-227 (0-0.5')	0-0.5	HA					
	SB-227 (0.5-2')	0.5-2						
	SB-227 (2-4')	2-4						

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
New Burn Building Block, Training Tower Block, and Former Drum and Tote (AOC 1) Areas	SB-228	SB-228 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		SB-228 (0.5-2')		0.5-2				
		SB-228 (2-4')		2-4				
		SB-228 (4-6')		4-6	DPT			
		SB-228 (6-8')		6-8				
		SB-228 (10-12')		10-12				
		SB-228 (13-15')		13-15				
		SB-228 (23-25')		23-25				
		SB-228 (33-35')		33-35				
	SB-229	SB-229 (0-0.5')		0-0.5	HA			
		SB-229 (0.5-2')		0.5-2				
		SB-229 (2-4')		2-4				
	SB-230	SB-230 (0-0.5')		0-0.5	HA			
		SB-230 (0.5-2')		0.5-2				
		SB-230 (2-4')		2-4				
	SB-231	SB-231 (0-0.5')		0-0.5	HA			
		SB-231 (0.5-2')		0.5-2				
		SB-231 (2-4')		2-4				
	SB-232	SB-232 (0-0.5')		0-0.5	HA			
		SB-232 (0.5-2')		0.5-2				
		SB-232 (2-4')		2-4				
	SB-233	SB-233 (0-0.5')		0-0.5	HA			
		SB-233 (0.5-2')		0.5-2				
		SB-233 (2-4')		2-4				
	SB-234	SB-234 (0-0.5')		0-0.5	HA			
		SB-234 (0.5-2')		0.5-2				
		SB-234 (2-4')		2-4				
	SB-235	SB-235 (0-0.5')		0-0.5	HA			
		SB-235 (0.5-2')		0.5-2				
		SB-235 (2-4')		2-4				
	SB-236	SB-236 (0-0.5')		0-0.5	HA			
		SB-236 (0.5-2')		0.5-2				
		SB-236 (2-4')		2-4				
	SB-237	SB-237 (0-0.5')		0-0.5	HA			
		SB-237 (0.5-2')		0.5-2				
		SB-237 (2-4')		2-4				
		SB-237 (4-6')		4-6	DPT			
		SB-237 (6-8')		6-8				
		SB-237 (10-12')		10-12				
		SB-237 (13-15')		13-15				
		SB-237 (23-25')		23-25				
		SB-237 (33-35')		33-35				
	SB-238	SB-238 (0-0.5')		0-0.5	HA			
		SB-238 (0.5-2')		0.5-2				
		SB-238 (2-4')		2-4				
	SB-239	SB-239 (0-0.5')		0-0.5	HA			
		SB-239 (0.5-2')		0.5-2				
		SB-239 (2-4')		2-4				
	SB-240	SB-240 (0-0.5')		0-0.5	HA			
		SB-240 (0.5-2')		0.5-2				
		SB-240 (2-4')		2-4				
	SB-241	SB-241 (0-0.5')		0-0.5	HA			
		SB-241 (0.5-2')		0.5-2				
		SB-241 (2-4')		2-4				
	SB-242	SB-242 (0-0.5')		0-0.5	HA			
		SB-242 (0.5-2')		0.5-2				
		SB-242 (2-4')		2-4				
	SB-243	SB-243 (0-0.5')		0-0.5	HA			
		SB-243 (0.5-2')		0.5-2				
		SB-243 (2-4')		2-4				
	SB-244	SB-244 (0-0.5')		0-0.5	HA			
		SB-244 (0.5-2')		0.5-2				
		Refusal		2				
	SB-245	SB-245 (0-0.5')		0-0.5	HA			
		SB-245 (0.5-2')		0.5-2				
		SB-245 (2-4')		2-4				
	SB-246	SB-246 (0-0.5')		0-0.5	HA			
		SB-246 (0.5-2')		0.5-2				
		SB-246 (2-4')		2-4				
	SB-247	SB-247 (0-0.5')		0-0.5	HA			
		SB-247 (0.5-2')		0.5-2				
		SB-247 (2-4')		2-4				
Hazmat Field Area	SB-248	SB-248 (0-0.5')		0-0.5	HA			
		SB-248 (0.5-2')		0.5-2				
		SB-248 (2-4')		2-4				

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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Hazmat Field Area	SB-249	SB-249 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		SB-249 (0.5-2')		0.5-2				
		SB-249 (2-4')		2-4				
	SB-250	SB-250 (0-0.5')		0-0.5	HA			
		SB-250 (0.5-2')		0.5-2				
		SB-250 (2-4')		2-4				
	SB-251	SB-251 (0-0.5')		0-0.5	HA			
		SB-251 (0.5-2')		0.5-2				
		SB-251 (2-4')		2-4				
	SB-252	SB-252 (0-0.5')		0-0.5	HA			
		SB-252 (0.5-2')		0.5-2				
		SB-252 (2-4')		2-4				
	SB-253	SB-253 (0-0.5')		0-0.5	HA			
		SB-253 (0.5-2')		0.5-2				
		SB-253 (2-4')		2-4				
	SB-254	SB-254 (0-0.5')		0-0.5	HA			
		SB-254 (0.5-2')		0.5-2				
		SB-254 (2-4')		2-4				
	SB-255	SB-255 (0-0.5')		0-0.5	HA			
		SB-255 (0.5-2')		0.5-2				
		SB-255 (2-4')		2-4				
	SB-256	SB-256 (0-0.5')		0-0.5	HA			
		SB-256 (0.5-2')		0.5-2				
		SB-256 (2-4')		2-4				
	SB-257	SB-257 (0-0.5')		0-0.5	HA			
		SB-257 (0.5-2')		0.5-2				
		SB-257 (2-4')		2-4				
	SB-258	SB-258 (0-0.5')		0-0.5	HA			
		SB-258 (0.5-2')		0.5-2				
		SB-258 (2-4')		2-4				
	SB-259	SB-259 (0-0.5')		0-0.5	HA			
		SB-259 (0.5-2')		0.5-2				
		SB-259 (2-4')		2-4				
	SB-260	SB-260 (0-0.5')		0-0.5	HA			
		SB-260 (0.5-2')		0.5-2				
		SB-260 (2-4')		2-4				
	SB-261	SB-261 (0-0.5')		0-0.5	HA			
		SB-261 (0.5-2')		0.5-2				
		SB-261 (2-4')		2-4				
	SB-262	SB-262 (0-0.5')		0-0.5	HA			
		SB-262 (0.5-2')		0.5-2				
		SB-262 (2-4')		2-4				
	SB-263	SB-263 (0-0.5')		0-0.5	HA			
		SB-263 (0.5-2')		0.5-2				
		SB-263 (2-4')		2-4				
	SB-264	SB-264 (0-0.5')		0-0.5	HA			
		SB-264 (0.5-2')		0.5-2				
		SB-264 (2-4')		2-4				
Storm Water Pond Area	SB-265	SB-265 (0-0.5')		0-0.5	HA			
		SB-265 (0.5-2')		0.5-2				
		SB-265 (2-4')		2-4				
Training Tower Block	SB-266	SB-266 (0-0.5')		0-0.5	HA			
		SB-266 (0.5-2')		0.5-2				
		SB-266 (2-4')		2-4				
Hazmat Field Area	SB-267	SB-267 (0-0.5')		0-0.5	HA			
		SB-267 (0.5-2')		0.5-2				
		SB-267 (2-4')		2-4				
	SB-268	SB-268 (0-0.5')		0-0.5	HA			
		SB-268 (0.5-2')		0.5-2				
		SB-268 (2-4')		2-4				
	SB-269	SB-269 (0-0.5')		0-0.5	HA			
		SB-269 (0.5-2')		0.5-2				
		SB-269 (2-4')		2-4				
		SB-269 (4-6')		4-6	DPT			
		SB-269 (6-8')		6-8				
		SB-269 (10-12')		10-12				
SB-269 (13-15')		13-15						
SB-269 (23-25')		23-25						
SB-269 (33-35')	33-35							

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Hazmat Field Area	SB-270	SB-270 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Levels
		SB-270 (0.5-2')		0.5-2				
		SB-270 (2-4')		2-4				
		SB-270 (4-6')		4-6	DPT			
		SB-270 (6-8')		6-8				
		SB-270 (10-12')		10-12				
		SB-270 (13-15')		13-15				
		SB-270 (23-25')		23-25				
		SB-270 (33-35')		33-35				
	SB-271	SB-271 (0-0.5')		0-0.5	HA			
		SB-271 (0.5-2')		0.5-2				
		SB-271 (2-4')		2-4				
	SB-272	SB-272 (0-0.5')		0-0.5	HA			
		SB-272 (0.5-2')		0.5-2				
		SB-272 (2-4')		2-4				
	SB-273	SB-273 (0-0.5')		0-0.5	HA			
		SB-273 (0.5-2')		0.5-2				
		SB-273 (2-4')		2-4				
Storm Water Pond Area	SB-274	SB-274 (0-0.5')		0-0.5	HA			
		SB-274 (0.5-2')		0.5-2				
		SB-274 (2-4')		2-4				
		SB-274 (4-6')		4-6	DPT			
		SB-274 (6-8')		6-8				
		SB-274 (10-12')		10-12				
		SB-274 (13-15')		13-15				
		SB-274 (23-25')		23-25				
		SB-274 (33-35')		33-35				
Storm Water Pond Area	SB-275	SB-275 (0-0.5')		0-0.5	HA			
		SB-275 (0.5-2')		0.5-2				
		SB-275 (2-4')		2-4				
Storm Water Pond Area	SB-276	SB-276 (0-0.5')		0-0.5	HA			
		SB-276 (0.5-2')		0.5-2				
		SB-276 (2-4')		2-4				
Storm Water Pond Area	SB-277	SB-277 (0-0.5')		0-0.5	HA			
		SB-277 (0.5-2')		0.5-2				
		SB-277 (2-4')		2-4				
New Burn Building Block, Training Tower Block, and Former Drum and Tote (AOC 1) Areas	SB-278	SB-278 (0-0.5')		0-0.5	HA			
		SB-278 (0.5-2')		0.5-2				
		SB-278 (2-4')		2-4				
	SB-279	SB-279 (0-0.5')		0-0.5	HA			
		SB-279 (0.5-2')		0.5-2				
		SB-279 (2-4')		2-4				
	SB-280	SB-280 (0-0.5')		0-0.5	HA			
		SB-280 (0.5-2')		0.5-2				
		SB-280 (2-4')		2-4				
	SB-281	SB-281 (0-0.5')		0-0.5	HA			
		SB-281 (0.5-2')		0.5-2				
		SB-281 (2-4')		2-4				
	SB-282	SB-282 (0-0.5')		0-0.5	HA			
		SB-282 (0.5-2')		0.5-2				
		SB-282 (2-4')		2-4				
	SB-283	SB-283 (0-0.5')		0-0.5	HA			
		SB-283 (0.5-2')		0.5-2				
		SB-283 (2-4')		2-4				
SB-284	SB-284 (0-0.5')	0-0.5		HA				
	SB-284 (0.5-2')	0.5-2						
	SB-284 (2-4')	2-4						
Training Tower Block	SB-285	SB-285 (4-6')		4-6	DPT			
		SB-285 (6-8)		6-8				
		SB-285 (10-12)		10-12				
		SB-285 (13-15)		13-15				
		SB-285 (23-25)		23-25				
		SB-285 (33-35)		33-35				
New Burn Building Block	SB-286	SB-286 (0-0.5')		0-0.5	HA			
	SB-287	SB-285 (0-0.5')		0-0.5	HA			
	SB-288	SB-288 (0-0.5')		0-0.5	HA			
Hazmat Field	SB-289	SB-289 (0-0.5')		0-0.5	HA			
		SB-289 (0.5-2')		0.5-2				
		SB-289 (2-4')		2-4				
	SB-290	SB-290 (0-0.5')		0-0.5	HA			
		SB-290 (0.5-2')		0.5-2				
Storm Water Pond Area	SB-291	SB-290 (2-4')		2-4	HA			
		SB-291 (0-0.5')		0-0.5				
		SB-291 (0.5-2')	0.5-2					
		SB-291 (2-4')		2-4				

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
New Burn Building Block, Training Tower Block, and Former Drum and Tote (AOC 1) Areas	SB-292	SB-292 (0-0.5')	Soil	0-0.5	HA	PFAS	Delineation Sampling	Provisional Soil Cleanup Target Level
		SB-292 (0.5-2')		0.5-2				
		SB-292 (2-4')		2-4				
	SB-293	SB-293 (0-0.5')		0-0.5	HA			
		SB-293 (0.5-2')		0.5-2				
		SB-293 (2-4')		2-4				
	SB-294	SB-294 (0-0.5')		0-0.5	HA			
		SB-294 (0.5-2')		0.5-2				
		SB-294 (2-4')		2-4				
	SB-295	SB-295 (0-0.5')		0-0.5	HA			
		SB-295 (0.5-2')		0.5-2				
		SB-295 (2-4')		2-4				
	SB-296	SB-296 (0-0.5')		0-0.5	HA			
		SB-296 (0.5-2')		0.5-2				
		SB-296 (2-4')		2-4				
	SB-297	SB-297 (0-0.5')		0-0.5	HA			
		SB-297 (0.5-2')		0.5-2				
		SB-297 (2-4')		2-4				
	SB-298	SB-298 (0-0.5')		0-0.5	HA			
		SB-298 (0.5-2')		0.5-2				
		SB-298 (2-4')		2-4				
	SB-299	SB-299 (0-0.5')		0-0.5	HA			
		SB-299 (0.5-2')		0.5-2				
		SB-299 (2-4')		2-4				
	SB-300	SB-300 (0-0.5')		0-0.5	HA			
		SB-300 (0.5-2')		0.5-2				
		SB-300 (2-4')		2-4				
	SB-301	SB-301 (0-0.5')		0-0.5	HA			
		SB-301 (0.5-2')		0.5-2				
		Refusal		2				
	SB-302	SB-302 (0-0.5')		0-0.5	HA			
		SB-302 (0.5-2')		0.5-2				
		SB-302 (2-4')		2-4				
		SB-302 (4-6')		4-6				
		SB-302 (6-8')		6-8				
	SB-303	SB-303 (0-0.5')		0-0.5	HA			
		SB-303 (0.5-2')		0.5-2				
		SB-303 (2-4')		2-4				
		SB-303 (4-6')		4-6				
		SB-303 (6-8')		6-8				
	SB-304	SB-304 (0-0.5')		0-0.5	HA			
		SB-304 (0.5-2')		0.5-2				
		SB-304 (2-4')		2-4				
		SB-304 (4-6')		4-6				
		Refusal		6				
Off-Site Step Out	SB-305	SB-305 (0-0.5')	HA					
		SB-305 (0.5-2')		0-0.5				
		SB-305 (2-4')		0.5-2				
		SB-305 (4-6')		2-4				
		SB-305 (6-8')		4-6				
	SB-306	SB-306 (0-0.5')	HA					
		SB-306 (0.5-2')		0-0.5				
		SB-306 (2-4')		0.5-2				
		SB-306 (4-6')		2-4				
		SB-306 (6-8')		4-6				
	SB-307	SB-307 (0-0.5')	HA					
		SB-307 (0.5-2')		0-0.5				
		SB-307 (2-4')		0.5-2				
		SB-307 (4-6')		2-4				
		SB-307 (6-8')		4-6				
	SB-308	SB-308 (0-0.5')	HA					
		SB-308 (0.5-2')		0-0.5				
		SB-308 (2-4')		0.5-2				
		SB-308 (4-6')		2-4				
		SB-308 (6-8')		4-6				
	SB-309	SB-309 (0-0.5')	HA					
		SB-309 (0.5-2')		0-0.5				
		SB-309 (2-4')		0.5-2				

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Screen Point Groundwater Samples								
Former Drum and Tote Area (AOC 1)	AOC 1-TMW 1	AOC 1-TMW 1 (36-40')	Groundwater	36-40	DPT	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Levels
Site-Wide Step Out	SP-1	SP-1 (36-40')		36-40				
		SP-1 (41-45')		41-45				
		SP-1 (46-50')		46-50				
		DUP-1 (SP-1 (46-50'))		51-55				
		SP-1 (51-55')		56-60				
		SP-1 (56-60')		62				
	SP-2	Refusal		36-40				
		SP-2 (36-40')		41-45				
		SP-2 (41-45')		46-50				
		SP-2 (46-50')		51-55				
		SP-2 (51-55')		57				
		Refusal		41-45				
Hazmat Field Area	SP-3	SP-3 (41-45')		46-50				
		DUP-3 (SP-3 (41-45'))		51-55				
		SP-3 (46-50')		56-60				
		SP-3 (51-55')		66-70				
		SP-3 (56-60')		71-75				
		SP-3 (66-70')		80				
		SP-3 (71-75')		66-70				
		Refusal		72				
Site-Wide Step Out	SP-4	SP-4 (66-70')		36-40				
		DUP-2 (SP-4 (66-70'))		41-45				
		Refusal		46-50				
	SP-5	Not Sampled - Dry		56.5				
		Not Sampled - Dry		31-35				
		Not Sampled - Dry		36-40				
	SP-6	Refusal		41-45				
		SP-6 (31-35')		46-50				
		SP-6 (36-40')		50-54				
		SP-6 (41-45')		54				
		SP-6 (46-50')		46-50				
		SP-6 (50-54')		46-50				
Former Drum and Tote Area (AOC 1)	SP-7	SP-7 (46-50')		46-50				
	SP-8	SP-8 (46-50')		46-50				
	SP-9	DUP-4 [SP-8 (46-50')]		46-50				
		SP-9 (46-50')		36-40				
Hazmat Field Area	SP-10	Not Sampled - Dry		41-45				
		SP-10 (41-45')		51-55				
		SP-10 (51-55')		61-65				
		SP-10 (61-65')		71-75				
		SP-10 (71-75')		36-40				
New Burn Building Block	SP-11	Not Sampled - Dry		41-45				
		SP-11 (41-45')		51-55				
		SP-11 (51-55')		61-65				
		SP-11 (61-65')		71-75				
		SP-11 (71-75')		36-40				
Training Tower Block	SP-12	Not Sampled - Dry		41-45				
		SP-12 (41-45')		51-55				
		SP-12 (51-55')		61-65				
		SP-12 (61-65')		71-75				
		SP-12 (71-75')		36-40				
Former Drum and Tote Area (AOC 1)	SP-13	Not Sampled - Dry		41-45				
		SP-13 (41-45')		51-55				
		SP-13 (51-55')		51-55				
		DUP-1 [SP-13 (51-55')]		61-65				
		SP-13 (61-65')		71-75				
Site-Wide Step Out	SP-14	SP-13 (71-75')		81-85				
		SP-14 (81-85')		87-91				
		SP-14 (87-91')		91				
Off-Site Step Out	SP-15	Refusal		41-45				
		Not Sampled - Dry		51-55				
		Not Sampled - Dry		61-65				
		SP-15 (61-65')		71-75				
		SP-15 (71-75')		81-85				
		SP-15 (81-85')		91-95				
		SP-15 (91-95')		101-105				
		SP-15 (101-105')		107				
		Refusal						

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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Off-Site Step Out	SP-16	SP-16 (41-45')	Groundwater	41-45	DPT	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Level
		SP-16 (51-55')		51-55				
		SP-16 (61-65')		61-65				
		SP-16 (71-75')		71-75				
		SP-16 (81-85')		81-85				
		SP-16 (91-95')		91-95				
		SP-16 (101-105')		101-105				
	SP-17	Refusal		106				
		Utility Conflicts		Utility Conflicts				
	SP-18	Not Sampled - Dry		41-45				
		Not Sampled - Dry		51-55				
		SP-18 (61-65')		61-65				
		SP-18 (61-65') DUP						
		SP-18 (71-75')		71-75				
		SP-18 (81-85')		81-85				
		SP-18 (91-95')		91-95				
		SP-18 (101-105')		101-105				
		Refusal		Not Recorded				
	SP-19	SP-19 (41-45')		41-45				
		SP-19 (51-55')		51-55				
		SP-19 (51-55') DUP						
		SP-19 (61-65')		61-65				
		SP-19 (71-75')		71-75				
		SP-19 (81-85')		81-85				
		SP-19 (91-95')		91-95				
		SP-19 (101-105')		101-105				
	SP-20	SP-19 (111-115')		111-115				
		Utility Conflicts		Utility Conflicts				
	SP-21	SP-21 (51-55')		51-55				
		SP-21 (61-65')		61-65				
		SP-21 (71-75')		71-75				
		SP-21 (78-82')		78-82				
		SP-21 (78-82') DUP						
	SP-22	Refusal		82				
		Not Sampled - Dry		41-45				
		Not Sampled - Dry		51-55				
		SP-22 (61-65')		61-65				
		SP-22 (71-75')		71-75				
		SP-22 (81-85')		81-85				
		SP-22 (81-85') DUP						
		SP-22 (91-95')		91-95				
		SP-22 (101-105')		101-105				
		SP-22 (111-115')		111-115				
	SP-23	Not Sampled - Dry		41-45				
		SP-23 (71-75')		71-75				
		SP-23 (81-85')		81-85				
	SP-24	SP-23 (91-95')		91-95				
		Not Sampled - Dry		41-45				
		Not Sampled - Dry		51-55				
		Not Sampled - Dry		61-65				
		SP-24 (71-75')		71-75				
		SP-24 (81-85')		81-85				
		SP-24 (91-95')		91-95				
		SP-24 (101-105')		101-105				
	SP-25	SP-24 (111-115')		111-115				
		Not Sampled - Dry		41-45				
		Not Sampled - Dry		51-55				
		Not Sampled - Dry		61-65				
		Not Sampled - Dry		71-75				
		Not Sampled - Dry		81-85				
		SP-25 (91-95')		91-95				
		SP-25 (101-105')		101-105				
	SP-26	SP-25 (111-115')		111-115				
		SP-25 (111-115') DUP						
		SP-26 (41-45')		41-45				
		Not Sampled - Dry		51-55				
		SP-26 (61-65')		61-65				
		Not Sampled - Dry		71-75				
		Not Sampled - Dry		81-85				
		Not Sampled - Dry		91-95				
		Not Sampled - Dry		101-105				
		SP-26 (111-115')		111-115				

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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Off-Site Step Out	SP-27	Not Sampled - Dry	Groundwater	41-45	DPT	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Level
		Not Sampled - Dry		51-55				
		Not Sampled - Dry		61-65				
		SP-27 (71-75')		71-75				
		SP-27 (81-85')		81-85				
		SP-27 (91-95')		91-95				
		SP-27 (101-105')		101-105				
		SP-27 (111-115')		111-115				
	SP-28	Refusal		44				
	SP-28A	Refusal		45				
	SP-29	SP-29 (41-45')		41-45				
		SP-29 (51-55')		51-55				
		SP-29 (61-65')		61-65				
		SP-29 (61-65') DUP		61-65				
		SP-29 (71-75')		71-75				
		SP-29 (81-85')		81-85				
		SP-29 (91-95')		91-95				
		SP-29 (97-101')		97-101				
	SP-30	Refusal		101				
		SP-30 (41-45')		41-45				
		SP-30 (51-55')		51-55				
		SP-30 (61-65')		61-65				
		SP-30 (61-65') DUP		61-65				
		SP-30 (71-75')		71-75				
		SP-30 (81-85')		81-85				
		SP-30 (89-93')		89-93				
New Burn Building Block and Stormwater Pond Area	SP-31	Refusal		93				
		Not Sampled - Dry		41-45				
		SP-31 (51-55')		51-55				
		SP-31 (61-65')		61-65				
		SP-31 (71-75')		71-75				
		SP-31 (71-75') DUP		71-75				
		SP-31 (81-85')		81-85				
		SP-31 (84-88')		84-88				
Former Drum and Tote Area (AOC 1)	SP-32	Refusal		88				
		Not Sampled		41-45				
		Not Sampled		51-55				
		Not Sampled		61-65				
		Not Sampled		71-75				
		Not Sampled		81-85				
		Not Sampled		91-95				
		Not Sampled		101-105				
New Burn Building Block, Training Tower Block, and Former Drum and Tote (AOC 1) Areas	SP-33	Not Sampled		111-115				
		Not Sampled		61-65				
		Not Sampled		71-75				
		Not Sampled		81-85				
		Not Sampled		91-95				
		Not Sampled		101-105				
	SP-34	Not Sampled - Dry		111-115				
		Not Sampled - Dry		61-65				
		SP-34 (61-65')		71-75				
		SP-34 (71-75')		81-85				
		SP-34 (81-85')		91-95				
		SP-34 (91-95')		101-105				
		SP-34 (101-105')		111-115				
		SP-34 (111-115')		41-45				
	SP-35	Not Sampled - Dry		51-55				
		Not Sampled - Dry		61-65				
		Refusal & Dry		63				
Hazmat Field Area	SP-36	SP-36 (61-65')		61-65				
		SP-36 (71-75')		71-75				
		SP-36 (81-85')		81-85				
		SP-36 (88-92')		88-92				
		Refusal		92				
Off-Site Step Out	SP-36	SP-36 (41-45')		41-45				
		SP-36 (51-55')		51-55				
		SP-36 (61-64')		61-64				
		SP-36 (71-75')		71-75				
		SP-36 (81-85')		81-85				
		SP-36 (88-92')		88-92				
		Refusal		92				

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Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Off-Site Step Out	SP-37	Not Sampled - Dry	Groundwater	41-45	DPT	PFAS	Groundwater Assessment	Provisional Groundwater Cleanup Target Level
		Not Sampled - Dry		51-55				
		Not Sampled - Dry		61-64				
		Not Sampled - Dry		71-75				
		SP-37 (81-85')		81-85				
		SP-37 (88-92')		88-92				
		Refusal		92				
Area of Concern (AOC)	Location ID	Sample ID	Matrix	Depth Interval (ft BLS)	Sample Method	Analysis	Rationale	Criteria
Monitoring Well Samples								
Site-Wide Monitoring Well Network	DEPMW-1 (100-120)	DEPMW-1 (100-120)	Groundwater	100-120	Submersible Pump	PFAS	Site-Wide Groundwater Monitoring	Provisional Groundwater Cleanup Target Levels
	DEPMW-2 (35-55)	DEPMW-2 (35-55)		35-55				
	DEPMW-3 (100-120)	DEPMW-3 (100-120)		100-120				
	DEPMW-4 (100-120)	DEPMW-4 (100-120)		100-120				
	DEPMW-5 (50-70)	DEPMW-5 (50-70)		50-70				
	DEPMW-6 (100-120)	DEPMW-6 (100-120)		100-120				
	DEPMW-7 (30-50)	DEPMW-7 (30-50)		30-50				
	DEPMW-8 (100-120)	DEPMW-8 (100-120)		100-120				
	DEPMW-9 (40-60)	DEPMW-9 (40-60)		40-60				
	DEPMW-10 (100-120)	DEPMW-10 (100-120)		100-120				
	DEPMW-11 (30-50)	DEPMW-11 (30-50)		30-50				
	DEPMW-12 (100-120)	DEPMW-12 (100-120)		100-120				
	DEPMW-13 (40-60)	DEPMW-13 (40-60)		40-60				
	DEPMW-14 (100-120)	DEPMW-14 (100-120)		100-120				
	DEPMW-15 (35-55)	DEPMW-15 (35-55)		35-55				
	DEPMW-16 (30-50)	DEPMW-16 (30-50)		30-50				
	DEPMW-17 (100-120)	DEPMW-17 (100-120)		100-120				
	DEPMW-18 (100-120)	DEPMW-18 (100-120)		100-120				
	DEPMW-19 (45-65)	DEPMW-19 (45-65)		45-65				
	DEPMW-20 (30-50)	DEPMW-20 (30-50)		30-50				
PRP Sites	MW-3 (FACID#429101718)	CCMW-3 (60-80)		60-80				
	DW-1 (FACID#429101718)	CCDW-1 (90-95)		90-95				
Supply Well Samples								
Florida State Fire College	FSFC Supply Well	FSFC Supply Well (Pre-Filter)	Groundwater	118-170	Grab	PFAS	Site-Wide Groundwater Monitoring	Provisional Groundwater Cleanup Target Levels
		FSFC Supply Well (Post-Filter)						
		FSFC Supply Well (Pre-Holding Tank)						
	FSFC Fire Well	FSFC Fire Well		Unknown				
Lhoist Supply and Production Wells	CC Supply Well	CC Supply Well	Groundwater	Unknown	Grab	PFAS	Site-Wide Groundwater Monitoring	Provisional Groundwater Cleanup Target Levels
	Well #1	Well #1		Unknown				
	Well #4	Well #4		Unknown				
	Well #5 AC	Well #5 AC		140-240				
	Well #8	Well #8 (Pre-Filter)		77-100				
Laboratory Quality Assurance/Quality Control Samples								
Sample Type	Activity	Sample ID	Matrix	Equipment Sampled	Analyses	Rationale	Criteria	
Equipment Blanks (ratio of 1:10)	Monitoring Well Sampling	EQB 1	Water	Submerisble Pump	PFAS	Assess potential sources of contamination from sampling equipment	N/A	
		EQB 2						
	Soil Sampling	AOC 1-EQB 1		HA				
		AOC 1-EQB 2		Macro-Core				
		AOC 1-EQB 3		HA				
		AOC 1-EQB 4		HA				
		AOC 1-EQB 5		Visqueen sheeting				
		AOC 1-EQB 6		Macro-Core				
		AOC1-EQB 7		Macro-Core				
		AOC 1-EQB 8		HA				
		AOC 1-EQB 9		HA				
		AOC 1-EQB 10		DPT Screen				
		AOC 1-EQB 11		DPT Rod				
		AOC 1-EQB 12		New DPT Macro Tube Liner				
		AOC 1-EQB 13		DPT Core Barrel with Liner and Drive Head				
		AOC 1-EQB 14		HA				
		AOC 1-EQB 15		HA				
	Soil Sampling	AOC 1-EQB 16		Macro-Core				
		AOC 1-EQB 17		DPT Sampler				
		AOC 1-EQB 18		Check valve and HDPE Tubing				
		AOC 1-EQB 19		Macro-Core				
		AOC 1-EQB 20		DPT Groundwater Sampler				
	Soil and Groundwater Sampling	AOC 1-EQB 21		HA				
		AOC 1-EQB 22		HA				
		AOC 1-EQB 23		HA				
		AOC 1-EQB 24		DPT Groundwater Screen				
		AOC 1-EQB 25		DPT groundwater rod				
		AOC 1-EQB 26		Check valve and HDPE tubing				
		AOC 1-EQB 27		Mobile Decon Pit Water				
		AOC 1-EQB 28		DPT Groundwater Screen				

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
AND CRITERIA
Florida State Fire College**

Sample Type	Activity	Sample ID	Matrix	Equipment Sampled	Analyses	Rationale	Criteria
Equipment Blanks (ratio of 1:10)	Soil and Groundwater Sampling	AOC 1-EQB 29	Water	Soil sampler with sleeve and shoe	PFAS	Assess potential sources of contamination from sampling equipment	N/A
		AOC 1-EQB 30		Soil sampler			
		AOC 1-EQB 31		Soil sampler with sleeve and drive head			
		AOC 1-EQB 32					
	Soil Sampling	EQB-33		HA			
		EQB-34		HA			
		EQB-35		HA			
		EQB-36		HA			
		EQB-37		HA			
		EQB-38		HA			
	Soil Sampling	EQB-39		HA			
		EQB-40		HA			
		EQB-41		HA			
				HA			
	Soil and Groundwater Sampling	AOC 1-EQB 42		HA			
		AOC 1-EQB 43		HA			
		AOC 1-EQB 44		HA			
		AOC 1-EQB 45		DPT Soil Sampling Equipment			
		AOC 1-EQB 46		DPT Soil Sampling Equipment			
		AOC 1-EQB 47		DPT Soil Sampling Equipment			
		AOC 1-EQB 48		DPT Soil Sampling Equipment			
		AOC 1-EQB 49		DPT Soil Sampling Equipment			
		AOC 1-EQB 50		DPT Soil Sampling Equipment			
		AOC 1-EQB 51		DPT Soil Sampling Equipment			
		AOC 1-EQB 52		DPT Groundwater Screen			
		AOC 1-EQB 53		DPT Soil Sampling Equipment			
		AOC 1-EQB 54		DPT Groundwater Screen			
		Groundwater Sampling		EQB-55			
	EQB-56						
	Soil Sampling	EQB-57		Soil Sampling Equipment			
		EQB-58					
		EQB-59					
		EQB-60					
		EQB-61					
		EQB-62					
		EQB-63					
		EQB-64					
		EQB-65					
		EQB-66					
	Monitoring Well Sampling	EQB-67		Submersible Pump			
		EQB-68					
	Soil Sampling	EQB-69		HA			
		EQB-70					
	Monitoring Well Sampling	EQB-71		Submersible Pump			
	HA Soil Sampling	EQB-72		HA			
EQB-73							
EQB-74							
EQB-75							
EQB-76							
EQB-77							
EQB-78							
EQB-79							
DPT Groundwater Sampling	EQB-80	DPT Groundwater Screen					
	EQB-81						
	EQB-82						
	EQB-83						
	EQB-84						
	EQB-85						
	EQB-86						
Field Reagent Blanks	Soil Sampling	AOC 1-FRB 1	N/A		Evaluate potential impact of sample cross-contamination		
		AOC 1-FRB 2					
		AOC 1-FRB 4					
		AOC 1-FRB 5					
		AOC 1-FRB 6					
	Monitoring Well Sampling	FRB 3					
		FRB 4					
		FRB 5					
	Soil and Groundwater Sampling	AOC 1-FRB 7					
		AOC 1-FRB 8					
		AOC 1-FRB 9					
		AOC 1-FRB 10					
		AOC 1-FRB 11					
		AOC 1-FRB 12					
		AOC 1-FRB 13					
		AOC 1-FRB 14					
Soil Sampling	AOC 1-FRB 15						
	FRB-16						

**TABLE 1: SAMPLING LOCATIONS, MATRICES, ANALYTES, RATIONALE,
AND CRITERIA
Florida State Fire College**

Sample Type	Activity	Sample ID	Matrix	Equipment Sampled	Analyses	Rationale	Criteria
Field Reagent Blanks	Soil Sampling	FRB-17	Water	N/A	PFAS	Evaluate potential impact of sample cross-contamination	N/A
		FRB-18					
		FRB-19					
		FRB-20					
		FRB-21					
	Soil and Groundwater Sampling	AOC 1-FRB 22					
		AOC 1-FRB 23					
		AOC 1-FRB 24					
	Soil and Groundwater Sampling	AOC 1-FRB 25					
		AOC 1-FRB 26					
		AOC 1-FRB 27					
	DPT Groundwater Sampling	FRB-28					
	Decontamination	FRB-29					
	Extra	FRB-30					
	Monitoring Well Sampling	FRB-31					
		FRB-32					
	Monitoring Well Sampling	FRB-33					
	Soil Sampling Decontamination	FRB-34					
	DPT Groundwater Sampling	FRB-35					
		FRB-36					

Notes:

1. ft BLS indicates feet below land surface.
2. PFAS indicates per- and polyfluoroalkyl substances.
3. N/A indicates not applicable.
4. EQB indicates equipment blank.
5. FRB indicates field reagent blank.
6. DUP indicates duplicate.
7. HA indicates hand auger.
8. DPT indicates direct push technology.
9. FSFC indicates Florida State Fire College.
10. SP indicates screen point.
11. SB indicates soil boring.
12. FAC ID #429101718 corresponds to the Country Cubbard Petroleum Restoration Program (PRP) site.

TABLE 2: WELL CONSTRUCTION DETAILS
Florida State Fire College

Well ID	Date Installed	Installation Method	Top of Casing Elevation (ft NAVD 88)	Total Depth (ft BLS)	Screened Interval (ft BLS)	Well Diameter (inches)	Lithology of Screened Interval
DEPMW-1 (100-120')	6/5/2019	Sonic	84.02	120.0	100 - 120	2	Competent limestone with sandy limestone 115-120 ft BLS
DEPMW-2 (35-55')	6/14/2019	Sonic	84.43	55.0	35 - 55	2	Friable fossiliferous limestone
DEPMW-3 (100-120')	6/6/2019	Sonic	101.59	120.0	100 - 120	2	Sandy fossiliferous limestone
DEPMW-4 (100-120')	6/11/2019	Sonic	108.40	120.0	100 - 120	2	Friable fossiliferous limestone and competent 101-103 ft BLS
DEPMW-5 (50-70')	6/11/2019	Sonic	108.40	70.0	50 - 70	2	Friable fossiliferous limestone and competent 57-58 ft BLS
DEPMW-6 (100-120')	6/12/2019	Sonic	79.64	120.0	100 - 120	2	Friable fossiliferous limestone
DEPMW-7 (30-50')	6/13/2019	Sonic	80.28	50.0	30 - 50	2	Friable fossiliferous limestone
DEPMW-8 (100-120')	6/18/2019	Sonic	93.28	120.0	100 - 120	2	Competent limestone, friable 105-110 ft BLS, limey clay 116-119 ft BLS
DEPMW-9 (40-60')	6/19/2019	Sonic	93.16	60.0	40 - 60	2	Dense clay 40-44 ft BLS, friable fossiliferous limestone 44-60 ft BLS
DEPMW-10 (100-120')	6/18/2019	Sonic	79.82	120.0	100 - 120	2	Friable fossiliferous limestone 100-112 ft BLS, competent 112-120 ft BLS
DEPMW-11 (30-50')	6/19/2019	Sonic	80.40	50.0	30 - 50	2	Clayey sand/sandy clay with competent limestone 49-50 ft BLS
DEPMW-12 (100-120')	6/20/2019	Sonic	95.60	120.0	100 - 120	2	Friable fossiliferous limestone
DEPMW-13 (40-60')	6/21/2019	Sonic	95.47	60.0	40 - 60	2	Sand 40-41 ft BLS, silty clay with sand 41-46 ft BLS, limestone 46-60 ft BLS
DEPMW-14 (100-120')	6/21/2019	Sonic	82.94	120.0	100 - 120	2	Competent fossiliferous limestone
DEPMW-15 (35-55')	6/24/2019	Sonic	83.42	55.0	35 - 55	2	Clayey sand with limestone 38-39 ft BLS and 45-55 ft BLS
DEPMW-16 (30-50')	6/25/2019	Sonic	79.31	50.0	30 - 50	2	Friable fossiliferous limestone, no recovery 30-35 ft BLS, sandy clay 37-41 ft BLS
DEPMW-17 (100-120')	6/25/2019	Sonic	78.85	120.0	100 - 120	2	Friable, fossiliferous limestone
DEPMW-18 (100-120')	11/5/2019	Sonic	98.94	120.0	100-120	2	Friable, fossiliferous limestone
DEPMW-19 (45-65')	11/5/2019	Sonic	99.20	65.0	45-65	2	Friable, fossiliferous limestone
DEPMW-20 (30-50')	11/6/2019	Sonic	82.46	50.0	30-50	2	Friable, fossiliferous limestone
CCDW-1 (FACID#429101718)	11/3/2006	HSA/Rotary	109.23	95.0	90 - 95	2	Limestone
CCMW-3 (FACID#429101718)	10/12/2005	HSA/Rotary	112.52	80.0	60 - 80	2	Limestone
CKMW-7D (FACID#428511144)	7/1/1991	Mud-Rotary	106.47	110.0	105 - 110	4	Limestone
CKMW-17 (FACID#428511144)	5/14/2008	Mud-Rotary	106.09	72.0	57 - 72	2	Weathered limestone
FSFC Supply Well	--	--	105.16	170.0	118 - 170	--	--
Lhoist Washdown Well (Well #5 AC)	--	--	88.48	240.0	140 - 240	--	Limestone
Well #8	--	--	Unknown	100.0	77 - 100	--	--

Notes:

1. ft indicates feet.
2. ft BLS indicates feet below land surface.
3. Top of casing elevations are relative to ft North American Vertical Datum 1988 (NAVD 88).
4. FAC ID #429101718 corresponds to the Country Cubbard PRP site.
5. FAC ID #428511144 corresponds to the Circle K PRP site.

TABLE 3: GROUNDWATER ELEVATION SUMMARY
Florida State Fire College

Well ID	DEPMW-1 (100-120')	DEPMW-2 (35-55')	DEPMW-3 (100-120')	DEPMW-4 (100-120')	DEPMW-5 (50-70')
Diameter (inches)	2	2	2	2	2
Total Depth (ft BTOC)	120.0	55.0	120.0	120.0	70.0
Screen Interval (ft BTOC)	100 - 120	35 - 55	100 - 120	100 - 120	50 - 70
TOC Elevation (ft NAVD)	84.02	84.43	101.59	108.40	108.40

DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/5/2019	45.90	38.12	--	45.92	38.51	--	46.15	55.44	--	45.95	62.45	--	45.97	62.43	--
8/28/2019	47.05	36.97	--	47.10	37.33	--	47.31	54.28	--	47.08	61.32	--	47.08	61.32	--
11/20/2019	46.96	37.06	--	47.00	37.43	--	47.21	54.38	--	46.98	61.42	--	47.01	61.39	--
6/10/2020	43.63	40.39	--	43.64	40.79	--	33.24	68.35	--	43.81	64.59	--	43.85	64.55	--
3/29/2021	43.57	40.46	--	43.60	40.84	--	43.93	57.66	--	43.81	64.60	--	43.83	64.58	--
2/21/2022	44.51	39.51	--	44.54	39.89	--	44.86	56.73	--	44.71	63.69	--	44.75	63.65	--

Well ID	DEPMW-6 (100-120')	DEPMW-7 (30-50')	DEPMW-8 (100-120')	DEPMW-9 (40-60')	DEPMW-10 (100-120')
Diameter (inches)	2	2	2	2	2
Total Depth (ft BTOC)	120.0	50.0	120.0	60.0	120.0
Screen Interval (ft BTOC)	100 - 120	30 - 50	100 - 120	40 - 60	100 - 120
TOC Elevation (ft NAVD)	79.64	80.28	93.28	93.16	79.82

DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/5/2019	46.47	33.17	--	46.47	33.81	--	45.88	47.40	--	45.89	47.27	--	46.32	33.50	--
8/28/2019	47.54	32.10	--	47.66	32.62	--	47.12	46.16	--	47.13	46.03	--	47.52	32.30	--
11/20/2019	47.60	32.04	--	47.62	32.66	--	46.88	46.40	--	46.90	46.26	--	47.42	32.40	--
6/10/2020	44.18	35.46	--	44.25	36.03	--	43.76	49.52	--	43.78	49.38	--	44.13	35.69	--
3/29/2021	44.15	35.50	--	44.17	36.12	--	43.65	49.63	--	43.65	49.51	--	44.09	35.73	--
2/21/2022	45.09	34.55	--	45.14	35.14	--	44.48	48.80	--	44.48	48.68	--	45.02	34.80	--

Well ID	DEPMW-11 (30-50')	DEPMW-12 (100-120')	DEPMW-13 (40-60')	DEPMW-14 (100-120')	DEPMW-15 (35-55')
Diameter (inches)	2	2	2	2	2
Total Depth (ft BTOC)	50.0	120.0	60.0	120.0	55.0
Screen Interval (ft BTOC)	30 - 50	100 - 120	40 - 60	100 - 120	35 - 55
TOC Elevation (ft NAVD)	80.40	95.60	95.47	82.94	83.42

DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/5/2019	46.33	34.07	--	46.19	49.41	--	46.19	49.28	--	46.10	36.84	--	46.17	37.25	--
8/28/2019	47.49	32.91	--	47.37	48.23	--	47.37	48.10	--	47.30	35.64	--	47.34	36.08	--
11/20/2019	47.37	33.03	--	47.28	48.32	--	47.28	48.19	--	47.16	35.78	--	47.27	36.15	--
6/10/2020	44.08	36.32	--	43.92	51.68	--	43.90	51.57	--	43.85	39.09	--	43.93	39.49	--
3/29/2021	44.04	36.36	--	43.89	51.71	--	43.88	51.59	--	43.75	39.20	--	43.84	39.59	--
2/21/2022	44.96	35.44	--	44.83	50.77	--	44.82	50.65	--	44.71	38.23	--	44.81	38.61	--

TABLE 3: GROUNDWATER ELEVATION SUMMARY
Florida State Fire College

Well ID	DEPMW-16 (30-50')	DEPMW-17 (100-120')	DEPMW-18 (100-120')	DEPMW-19 (45-65')	DEPMW-20 (30-50')
Diameter (inches)	2	2	2	2	2
Total Depth (ft BTOC)	50.0	120.0	120.0	65.0	50.0
Screen Interval (ft BTOC)	30 - 50	100 - 120	100 - 120	45 - 65	30 - 50
TOC Elevation (ft NAVD)	79.31	78.85	98.94	99.20	82.46

DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
8/5/2019	46.24	33.07	--	46.24	32.61	--	NOT INSTALLED			NOT INSTALLED			NOT INSTALLED		
8/28/2019	47.52	31.79	--	47.47	31.38	--									
11/20/2019	47.25	32.06	--	47.21	31.64	--	46.70	52.24	--	46.68	52.52	--	47.09	35.37	--
6/10/2020	44.46	34.85	--	44.40	34.45	--	43.73	55.21	--	43.78	55.42	--	43.86	38.60	--
3/29/2021	43.90	35.42	--	43.87	34.99	--	43.64	55.30	--	43.68	55.52	--	43.75	38.72	--
2/21/2022	44.84	34.47	--	44.82	34.03	--	44.46	54.48	--	44.49	54.71	--	44.65	37.81	--

Well ID	CCDW-1 (FACID#429101718)	CCMW-3 (FACID#429101718)	CKMW-7D (FACID#428511144)	CKMW-17 (FACID#428511144)	Lhoist Staff Gauge
Diameter (inches)	2	2	4	2	-
Total Depth (ft BTOC)	95.0	80.0	110.0	72.0	-
Screen Interval (ft BTOC)	90 - 95	60 - 80	105 - 110	57 - 72	-
TOC Elevation (ft NAVD)	109.23	112.52	106.47	106.09	-

DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	READING
8/5/2019	46.25	62.98	--	46.49	66.03	--	46.44	60.03	--	45.41	60.68	--	--	--
8/28/2019	47.38	61.85	--	47.66	64.86	--	47.20	59.27	--	46.89	59.20	--	47.56	47.56
11/20/2019	--	--	--	--	--	--	--	--	--	--	--	--	47.38	47.38
11/21/2019	47.43	61.80	--	47.59	64.93	--	47.99	58.48	--	47.36	58.73	--	--	--
6/10/2020	44.04	65.19	--	44.17	68.35	--	--	--	--	--	--	--	--	--
3/29/2021	44.07	65.16	--	44.15	68.37	--	44.02	62.45	--	43.90	62.19	--	Dry (< 45.00)	
2/21/2022	45.01	64.22	--	45.09	67.43	--	44.94	61.53	--	44.74	61.35	--		

Well ID	FSFC Supply Well	Lhoist Washdown Well (Well #5 AC)
Diameter (inches)	-	-
Total Depth (ft BTOC)	170.0	240.0
Screen Interval (ft BTOC)	118 - 170	140 - 240
TOC Elevation (ft NAVD)	105.16	88.48

DATE	ELEV	DTW	FP	ELEV	DTW	FP
11/20/2019	46.95	58.21	--	47.04	41.44	--

Notes:

1. DTW indicates depth to groundwater measured in feet below top of casing (ft BTOC).
2. ELEV indicates groundwater elevation in feet relative to ft North American Vertical Datum 1988 (NAVD 88).
3. ft indicates feet.
4. FP indicates free product.
5. Top of casing elevations are relative to ft NAVD 88.
6. Staff gauge is a direct read off the graduated gauge with an error of +/- 0.1 ft.
7. FAC ID #429101718 corresponds to the Country Cubbard PRP site.
8. FAC ID #428511144 corresponds to the Circle K PRP site.
9. Groundwater elevations recorded at monitoring well DEPMW-9 (40 to 60 ft BLS) on 29 March 2021 appear to be erroneous based on historic measurements and DTW measurements collected at other wells across the Site. Thus, the measurement collected on 30 March 2021 prior to purging was recorded in the data table.

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC1-SB 1	AOC1-SB1 (0-0.5')	3/11/2019	0-0.5	95	110,000 L	NA	NA	130	9.5 I	5.5 I	4.4 I	4.7 U	8.7 U	6.6 U	7.0 U	NA	NA	NA	NA	17 I	NA	410
	AOC1-SB1 (0.5-2')		0.5-2	51	84,000 L	NA	NA	67	6.0 I	5.3 I	2.9 I	4.7 U	8.8 U	6.7 U	7.1 U	NA	NA	NA	NA	15 I	NA	340
	AOC1-SB1 (2-4')		2-4	24 I	27,000 L	NA	NA	36	3.7 U	4.6 U	2.8 U	4.6 U	8.6 U	6.6 U	7.0 U	NA	NA	NA	NA	7.2 I	NA	110
	AOC1-SB 1(4-6')	6/25/2020	4-6	80	2,100	NA	51	110	43	0.28 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	1.1 I	6.4	NA	180	280	1,400
	AOC1-SB1 (6-8')	3/11/2019	6-8	1.6	300	NA	NA	1.8	0.46	1.5	0.20 I	0.069 I	0.10 U	0.078 U	0.083 U	NA	NA	NA	NA	0.76	NA	33
	AOC1-SB 1(10-12')	6/25/2020	10-12	42	590	NA	93	180	47	0.22 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	3.2	0.91 I	NA	370	360	1,600
	AOC1-SB 1(13-15')		13-15	37	270	NA	36 I	67	35	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	2.9	0.28 U	NA	140	130	420
AOC1-SB 2	AOC1-SB2 (0-0.5')	3/11/2019	0-0.5	1.9	250 J3	NA	NA	2.2	0.69	1.3	0.66	0.51	0.092 I	0.053 U	0.057 U	NA	NA	NA	NA	1.6	NA	12
	AOC1-SB2 (0-0.5')		0-0.5 (RE)	-	210 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (0.5-2')		0.5-2	0.63	200 J3	NA	NA	0.56	0.15 I	0.58	0.22	0.037 U	0.14 I	0.053 U	0.056 U	NA	NA	NA	NA	0.40	NA	4.9
	AOC1-SB2 (0.5-2')		0.5-2 (RE)	-	200 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (2-4')		2-4	0.44	94 J3	NA	NA	0.84	0.19 I	0.17 I	0.044 I	0.042 U	0.079 U	0.060 U	0.063 U	NA	NA	NA	NA	1.4	NA	7.7
	AOC1-SB2 (2-4')		2-4 (RE)	-	97 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 2(4-6')	6/24/2020	4-6	2.1	370	NA	2.8	6.0	0.84 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	17	16	65
	AOC1-SB2 (6-8')	3/11/2019	6-8	14	510	NA	NA	18	3.2	0.23	0.025 U	0.041 U	0.077 U	0.058 U	0.062 U	NA	NA	NA	NA	25	NA	170
	AOC1-SB2 (10-12')	5/1/2019	10-12	110	2,500 L	NA	NA	180	21 I	4.4 U	2.7 U	4.4 U	8.2 U	6.3 U	6.6 U	NA	NA	NA	NA	130	NA	900
	AOC1-SB 2(10-12')	6/24/2020		13	800	NA	9.0 U	20	4.5 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	0.22 U	NA	36	47	330
AOC1-SB 3	AOC1-SB2 (14-16')	5/1/2019	14-16	74	1,500	NA	NA	110	13 I	4.3 U	2.6 U	4.3 U	7.9 U	6.0 U	6.4 U	NA	NA	NA	NA	86	NA	590
	AOC1-SB3 (0-0.5')	3/11/2019	0-0.5	0.11 I	6.9	NA	NA	0.11 I	0.067 I	0.13 I	0.15 I	0.037 U	0.068 U	0.052 U	0.055 U	NA	NA	NA	NA	0.066 I	NA	0.29
	AOC1-SB3 (0.5-2')		0.5-2	0.14 I	90	NA	NA	0.087 I	0.040 I	0.58	0.023 U	0.037 U	0.069 U	0.052 U	0.055 U	NA	NA	NA	NA	0.026 I	NA	0.25
	AOC1-SB3 (2-4')		2-4	0.20 I	47	NA	NA	0.11 I	0.057 I	0.10 I	0.027 U	0.043 U	0.081 U	0.062 U	0.065 U	NA	NA	NA	NA	0.030 U	NA	0.49
AOC1-SB 4	AOC1-SB3 (6-8')		6-8	0.45	32	NA	NA	0.12 I	0.093 I	0.038 U	0.023 U	0.038 U	0.070 U	0.053 U	0.057 U	NA	NA	NA	NA	0.026 U	NA	0.72
	AOC1-SB4 (0-0.5')	3/11/2019	0-0.5	1.4	36	NA	NA	0.99	0.66	1.5	0.24 I	0.048 U	0.089 U	0.068 U	0.072 U	NA	NA	NA	NA	0.23 I	NA	4.6
	AOC1-SB4 (0.5-2')		0.5-2	0.25	19	NA	NA	0.32	0.15 I	0.34	0.023 I	0.038 U	0.071 U	0.054 U	0.057 U	NA	NA	NA	NA	0.098 I	NA	1.8
	AOC1-SB4 (2-4')		2-4	0.68	23	NA	NA	2.2	0.43	0.070 I	0.033 U	0.054 U	0.10 U	0.076 U	0.080 U	NA	NA	NA	NA	0.32	NA	4.7
AOC1-SB 5	AOC1-SB4 (6-8')		6-8	0.17 I	280	NA	NA	0.37	0.037 U	0.046 U	0.047 I	0.046 U	0.087 U	0.066 U	0.070 U	NA	NA	NA	NA	0.053 I	NA	1.0
	AOC1-SB5 (0-0.5')	3/11/2019	0-0.5	1.8	620 J3	NA	NA	3.5	0.28	0.11 I	0.18 I	0.48	0.74	0.21	0.12 I	NA	NA	NA	NA	0.57	NA	12
	AOC1-SB5 (0-0.5')		0-0.5 (RE)	-	660 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (0.5-2')		0.5-2	1.9	670 J3	NA	NA	2.4	0.27	0.085 I	0.23	0.53	0.23	0.056 U	0.059 U	NA	NA	NA	NA	0.58	NA	11
	AOC1-SB5 (0.5-2')		0.5-2 (RE)	-	650 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
	AOC1-SB5 (2-4')		2-4	0.74	340	NA	NA	1.0	0.14 I	0.080 I	0.21 I	0.21 I	0.073 U	0.056 U	0.059 U	NA	NA	NA	NA	0.38	NA	5.5
	AOC1-SB5 (6-8')		6-8	0.37	22 J3	NA	NA	0.65	0.081 I	0.043 U	0.026 U	0.043 U	0.079 U	0.061 U	0.064 U	NA	NA	NA	NA	0.82	NA	3.8
	AOC1-SB5 (6-8')		6-8 (RE)	-	23 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (14-16')	9/12/2019	14-16	0.59	120	NA	0.24 I	0.83	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.30 I	NA	0.89	0.95	7.1
AOC1-SB 6	AOC1-SB5 (23-25')		23-25	0.75	70	NA	0.42 I	1.2	0.18	0.15	0.15	0.15	0.15	0.15	0.15	0.31 U	0.62 U	0.31 U	NA	2.0	2.1	12
	AOC1-SB5 (33-35')		33-35*	15	2,100	NA	3.8	13	2.1	0.17	0.13	0.13	0.13	0.13	0.13	0.26	0.52	0.32	NA	17	17	95
	AOC1-SB6 (0-0.5')	3/11/2019	0-0.5	440	120,000 L J3	NA	NA	310	23	3.8 U	2.3 U	3.8 U	7.1 U	5.4 U	5.7 U	NA	NA	NA	NA	76	NA	1,400
	AOC1-SB6 (0-0.5')		0-0.5 (RE)	-	210,000 Q L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (0.5-2')		0.5-2	20 I	34,000 L J3	NA	NA	34	3.7 U	4.6 U	2.8 U	4.6 U	8.5 U	6.4 U	6.8 U	NA	NA	NA	NA	5.0 I	NA	67
	AOC1-SB6 (0.5-2')		0.5-2 (RE)	-	56,000 Q L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (2-3')		2-3	11 I	22,000 L J3	NA	NA	15 I	3.7 U	4.6 U	2.8 U	4.6 U	8.6 U	6.5 U	6.9 U	NA	NA	NA	NA	4.0 I	NA	45
	AOC1-SB6 (2-3')		2-3 (RE)	-	25,000 Q J3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 6(4-6')	6/25/2020	4-6	9.5	2,400	NA	4.9	16	1.9	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	7.1 I	2.3	NA	20	16	89 J
	AOC1-SB6 (6-8')	3/11/2019	6-8	99	6,300 L	NA	NA	61	8.7 I	5.1 U	3.1 U	5.1 U	9.4 U	7.2 U	7.6 U	NA	NA	NA	NA	35	NA	410
	AOC1-SB 6(6-8')	6/25/2020		48	670	NA	81	83	34	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	1.2 I	2.0	NA	200	190	680
	AOC1-SB6 (10-12')	3/11/2019	10-12	100	3,700 L	NA	NA	88	16 I	4.8 U	2.9 U	4.8 U	8.9 U	6.7 U	7.1 U	NA	NA	NA	NA	85	NA	630
	AOC1-SB 6(10-12')	6/25/2020		34	2,200	NA	45	46	14	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	7.6	2.6	NA	83	71	260
	AOC1-SB6 (14-16')	3/11/2019	14-16	99	1,800	NA	NA	150	26 I	5.1 U	3.1 U	5.1 U	9.4 U	7.2 U	7.6 U	NA	NA	NA	NA	180	NA	900
	AOC1-SB6 (18-20')	5/2/2019	18-20	67	1,300	NA	NA	130	17 I	4.3 U	2.6 U	4.3 U	8.0 U	6.1 U	6.5 U	NA	NA	NA	NA	160	NA	660
	AOC1-SB6 (23-25')		23-25	210	8,100 L	NA	NA	280	43	5.9 U	3.6 U	5.9 U	11 U	8.4 U	8.9 U	NA	NA	NA	NA	330	NA	1,600
	AOC1-SB6 (28-30')		28-30	140	2,900 L	NA	NA	120	19 I	5.0 U	3.1 U	5.0 U	9.4 U	7.1 U	7.6 U	NA	NA	NA	NA	130	NA	830
	AOC1-SB6 (33-35')		33-35	98	2,900 L	NA	NA	100	15 I	4.1 U	2.5 U	4.1 U	7.7 U	5.9 U	6.2 U	NA	NA	NA	NA	95	NA	640
	AOC1-SB6 (38-40')		38-40*	140	570	NA	NA	210	37	4.7 U	2.9 U	4.7 U	8.7 U	6.6 U	7.0 U	NA	NA	NA	NA	240	NA	1,600
	AOC1-SB6 (43-45')		43-45*	33	180	NA	NA	44	10	0.52 U	0.32 U	0.52 U	0.97 U	0.74 U	0.79 U	NA	NA	NA	NA	47	NA	350

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC1-SB 1	AOC1-SB1 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	51 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB1 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	51 U	49 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB1 (2-4')		2-4	NA	NA	NA	NA	NA	NA	50 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 1(4-6')	6/25/2020	4-6	50	2.4	1.2	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB1 (6-8')	3/11/2019	6-8	NA	NA	NA	NA	NA	NA	0.60 U	0.57 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 1(10-12')	6/25/2020	10-12	50	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 2	AOC1-SB 1(13-15')		13-15	37	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.39 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (0-0.5')		0-0.5 (RE)	NA	NA	NA	NA	NA	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	1.8 I	0.60 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (0.5-2')		0.5-2 (RE)	NA	NA	NA	NA	NA	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.43 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (2-4')		2-4 (RE)	NA	NA	NA	NA	NA	NA	-	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 2(4-6')	6/24/2020	4-6	4.4	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (6-8')	3/11/2019	6-8	NA	NA	NA	NA	NA	NA	0.45 U	0.42 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB2 (10-12')	5/1/2019	10-12	NA	NA	NA	NA	NA	NA	46 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 2(10-12')	6/24/2020		23	1.5	2.0	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 3	AOC1-SB2 (14-16')	5/1/2019	14-16	NA	NA	NA	NA	NA	NA	44 U	46 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB3 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.38 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB3 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.38 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB3 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.45 U	0.47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB3 (6-8')		6-8	NA	NA	NA	NA	NA	NA	0.39 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 4	AOC1-SB4 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.49 U	0.52 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB4 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.39 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB4 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.55 U	0.58 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB4 (6-8')		6-8	NA	NA	NA	NA	NA	NA	0.48 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 5	AOC1-SB5 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	1.2 I	1.3 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (0-0.5')		0-0.5 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.49 I	0.89 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (0.5-2')		0.5-2 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.40 U	0.42 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (6-8')		6-8	NA	NA	NA	NA	NA	NA	0.46 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (6-8')		6-8 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (14-16')	9/12/2019	14-16	1.6	1.7	1.3	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 6	AOC1-SB5 (23-25')		23-25	1.0	0.15 U	0.15 U	NA	NA	NA	0.15	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB5 (33-35')		33-35*	25	0.13	0.13	NA	NA	NA	0.13	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	41 U	39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (0-0.5')		0-0.5 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	49 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (0.5-2')		0.5-2 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (2-3')		2-3	NA	NA	NA	NA	NA	NA	50 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (2-3')		2-3 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 6(4-6')	6/25/2020	4-6	48	2.3	2.0	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (6-8')	3/11/2019	6-8	NA	NA	NA	NA	NA	NA	55 U	52 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 6(6-8')	6/25/2020		48	1.8	1.1	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (10-12')	3/11/2019	10-12	NA	NA	NA	NA	NA	NA	52 U	49 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 6(10-12')	6/25/2020		33	0.14 U	0.59	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (14-16')	3/11/2019	14-16	NA	NA	NA	NA	NA	NA	55 U	52 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (18-20')	5/2/2019	18-20	NA	NA	NA	NA	NA	NA	44 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (23-25')		23-25	NA	NA	NA	NA	NA	NA	61 U	64 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (28-30')		28-30	NA	NA	NA	NA	NA	NA	52 U	55 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (33-35')		33-35	NA	NA	NA	NA	NA	NA	43 U	45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (38-40')		38-40*	NA	NA	NA	NA	NA	NA	48 U	51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB6 (43-45')		43-45*	NA	NA	NA	NA	NA	NA	5.4 U	5.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AOC1-SB 7	AOC1-SB7 (0-0.5')	3/11/2019	0-0.5	18	92	NA	NA	16	3.9	3.0	5.3	3.2	1.6	0.30	0.17 I	NA	NA	NA	NA	0.43	NA	4.9	
	AOC1-SB7 (0.5-2')		0.5-2	16	250	NA	NA	15	3.3	2.8	3.7	0.72	0.25	0.063 U	0.067 U	NA	NA	NA	NA	0.35	NA	4.6	
	AOC1-SB7 (2-4')		2-4	9.6	480	NA	NA	4.7	2.8	1.9	0.86	0.051 U	0.095 U	0.073 U	0.077 U	NA	NA	NA	NA	0.66	NA	5.2	
	AOC1-SB7 (4-6')	6/25/2020	4-6	3.9	4,400	NA	1.7 I	4.8	0.60 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	1.3 I	13	NA	4.4	5.9	45	
	AOC1-SB7 (6-8')	3/11/2019	6-8	44	1,500	NA	NA	39	9.7 I	5.9 U	3.6 U	5.9 U	11 U	8.4 U	8.9 U	NA	NA	NA	NA	37	NA	370	
	AOC1-SB7 (10-12')	3/11/2019	10-12	43	4,700 L	NA	NA	11 I	3.9 I	4.8 U	2.9 U	4.8 U	9.0 U	6.8 U	7.2 U	NA	NA	NA	NA	5.9 I	NA	200	
	AOC1-SB 7(10-12')	6/25/2020		9.8	2,700	NA	6.5	14	2.1	0.25 I	0.18 I	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	3.9 I	62	NA	14	1.1	50	
	AOC1-SB 7(13-15')	13-15	6.8	3,200	NA	1.6 I	4.6	0.52 I	0.23 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	6.3	3.1	NA	4.5	6.2	49		
AOC1-SB7 (14-16')	3/11/2019	14-16	65	3,700 L	NA	NA	24 I	7.2 I	5.0 U	3.0 U	5.0 U	9.3 U	7.1 U	7.5 U	NA	NA	NA	NA	15 I	NA	350		
AOC1-SB 8	AOC1-SB8 (0-0.5')	3/11/2019	0-0.5	1.2	9.8	NA	NA	0.62	0.72	1.2	0.49	0.63	0.28	0.053 U	0.057 U	NA	NA	NA	NA	0.25	NA	1.7	
	AOC1-SB8 (0.5-2')		0.5-2	0.48	28	NA	NA	0.27	0.34	1.1	0.74	0.037 U	0.070 U	0.053 U	0.056 U	NA	NA	NA	NA	0.072 I	NA	0.94	
	AOC1-SB8 (2-4')		2-4	0.92	49	NA	NA	0.70	0.68	0.90	0.027 U	0.044 U	0.081 U	0.062 U	0.065 U	NA	NA	NA	NA	0.17 I	NA	1.4	
	AOC1-SB8 (6-8')		6-8	0.39	30 J3	NA	NA	0.23 I	0.22 I	0.24 I	0.031 U	0.051 U	0.095 U	0.072 U	0.077 U	NA	NA	NA	NA	0.19 I	NA	1.3	
	AOC1-SB8 (6-8')		6-8 (RE)	-	30 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-	
	AOC1-SB8 (10-12')		10-12	2.4	180 J3	NA	NA	0.81	0.67	0.55	0.024 U	0.039 U	0.073 U	0.056 U	0.059 U	NA	NA	NA	NA	0.52	NA	6.1	
	AOC1-SB8 (10-12')		10-12 (RE)	-	150 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-	
	AOC1-SB8 (14-16')		14-16	1.6	81 J3	NA	NA	0.77	0.59	0.38	0.029 U	0.047 U	0.087 U	0.066 U	0.070 U	NA	NA	NA	NA	0.53	NA	4.1	
AOC1-SB8 (14-16')	14-16 (RE)	-	51 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-			
AOC1-SB 9	AOC1-SB9 (0-0.5')	3/11/2019	0-0.5	1.3	37	NA	NA	0.94	0.60	1.5	0.25	0.040 U	0.075 U	0.057 U	0.061 U	NA	NA	NA	NA	0.18 I	NA	2.4	
	AOC1-SB9 (0.5-2')		0.5-2	0.43	27	NA	NA	0.28	0.23 I	0.78	0.029 U	0.047 U	0.088 U	0.067 U	0.071 U	NA	NA	NA	NA	0.079 I	NA	1.6	
	AOC1-SB9 (2-4')		2-4	1.1	64	NA	NA	1.2	0.96	0.45	0.037 U	0.061 U	0.11 U	0.087 U	0.092 U	NA	NA	NA	NA	0.31 I	NA	4.1	
	AOC1-SB 9(4-6')	6/25/2020	4-6	0.65	43	NA	1.3 I	1.1	0.59 I	0.14 U	0.37 I	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.54 U	0.27 U	NA	0.65	0.73	3.1	
	AOC1-SB9 (6-8')	3/11/2019	6-8	2.9	450	NA	NA	1.8	0.25	0.058 I	0.025 U	0.041 U	0.076 U	0.058 U	0.061 U	NA	NA	NA	NA	0.99	NA	8.8	
	AOC1-SB9 (10-12')		10-12	4.5	420 J3	NA	NA	2.5	0.50	0.062 I	0.030 U	0.048 U	0.090 U	0.069 U	0.073 U	NA	NA	NA	NA	1.8	NA	21	
	AOC1-SB9 (10-12')		10-12 (RE)	-	380 Q J3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-	
AOC1-SB9 (14-16')	14-16		5.3	370	NA	NA	4.7	0.92	0.094 I	0.026 U	0.043 U	0.080 U	0.061 U	0.065 U	NA	NA	NA	NA	4.2	NA	32		
AOC1-SB 10	AOC1-SB10 (0-0.5')	3/11/2019	0-0.5	160	5,700 L	NA	NA	23 I	7.1 I	15 I	14 I	4.3 U	7.9 U	6.0 U	6.4 U	NA	NA	NA	NA	3.0 U	NA	38	
	AOC1-SB10 (0.5-2')		0.5-2	42	910	NA	NA	8.9	3.0	5.4	4.5	0.62	0.40	0.068 I	0.094 I	NA	NA	NA	NA	1.7	NA	29	
	AOC1-SB10 (2-3')		2-3	85	530	NA	NA	14	6.8	14	7.2	1.2	0.69	0.21 I	0.18 I	NA	NA	NA	NA	6.5	NA	69	
	AOC1-SB10 (6-8')		6-8	26	1,800	NA	NA	23 I	3.7 U	4.6 U	2.8 U	4.6 U	8.5 U	6.5 U	6.8 U	NA	NA	NA	NA	13 I	NA	130	
	AOC1-SB10 (10-12')		10-12	50	1,700	NA	NA	48	9.5 I	4.3 U	2.6 U	4.3 U	8.0 U	6.1 U	6.5 U	NA	NA	NA	NA	44	NA	310	
	AOC1-SB10 (14-16')		14-16	30	800	NA	NA	38	6.9 I	4.7 U	2.9 U	4.7 U	8.7 U	6.7 U	7.0 U	NA	NA	NA	NA	45	NA	240	
	AOC1-SB10 (23-25')	9/12/2019	23-25	51	2,600	NA	20	63	7.7	0.20 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	1.0 I	72	2.3	NA	47	45	360	
	AOC1-SB10 (33-35')		33-35	110	8,500	NA	31	120	15	0.47 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	1.4	140	5.3	NA	100	90	810	
AOC1-SB10 (38-40')	38-40*	33	850	NA	24	54	14	0.30 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.59 I	18	1.1 I	NA	51	49	320		
AOC1-SB 11	AOC1-SB11 (0-0.5')	3/11/2019	0-0.5	24 I	20,000 L J3	NA	NA	38	3.7 U	4.6 U	2.8 U	4.6 U	8.6 U	6.6 U	6.9 U	NA	NA	NA	NA	4.7 I	NA	110	
	AOC1-SB11 (0-0.5')		0-0.5 (RE)	-	23,000 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-	
	AOC1-SB11 (0.5-2')		0.5-2	95	150,000 L J3	NA	NA	24 I	3.8 U	5.6 I	2.9 U	4.7 U	8.7 U	6.7 U	7.0 U	NA	NA	NA	NA	4.0 I	NA	160	
	AOC1-SB11 (0.5-2')		0.5-2 (RE)	-	150,000 Q L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-	
	AOC1-SB11 (2-4')	4/30/2019	2-4	130	6,700 L J3	NA	NA	11 I	3.6 U	4.4 U	2.7 U	4.4 U	8.3 U	6.3 U	6.7 U	NA	NA	NA	NA	4.2 I	NA	680	
	AOC1-SB11 (6-8')	5/1/2019	6-8	11 U	1,800	NA	NA	8.2 I	3.6 U	4.4 U	2.7 U	4.4 U	8.2 U	6.3 U	6.6 U	NA	NA	NA	NA	3.1 U	NA	32	
	AOC1-SB11 (10-12')		10-12	63	15,000 L	NA	NA	65	4.4 I	4.3 U	2.6 U	4.3 U	8.1 U	6.1 U	6.5 U	NA	NA	NA	NA	14 I	NA	270	
AOC1-SB11 (14-16')	14-16		70	5,300 L	NA	NA	54	7.5 I	4.7 U	2.8 U	4.7 U	8.7 U	6.6 U	7.0 U	NA	NA	NA	NA	35	NA	390		
AOC1-SB 12	AOC1-SB12 (0-0.5')	3/11/2019	0-0.5	1.5	46 J3	NA	NA	1.2	0.96	2.0	0.45	0.046 U	0.085 U	0.065 U	0.069 U	NA	NA	NA	NA	0.32	NA	3.6	
	AOC1-SB12 (0-0.5')		0-0.5 (RE)	-	38 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-	
	AOC1-SB12 (0.5-2')		0.5-2	0.67	55 J3	NA	NA	0.31	0.33	2.0	0.099 I	0.046 U	0.086 U	0.065 U	0.069 U	NA	NA	NA	NA	0.15 I	NA	1.9	
	AOC1-SB12 (0.5-2')		0.5-2 (RE)	-	48 Q	NA	NA	NA	NA	NA	NA												

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC1-SB 7	AOC1-SB7 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.78 I	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB7 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.48 U	1.0 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB7 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.55 U	0.55 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 7(4-6')	6/25/2020	4-6	17	6.9	1.3	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB7 (6-8')	3/11/2019	6-8	NA	NA	NA	NA	NA	NA	64 U	61 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB7 (10-12')	3/11/2019	10-12	NA	NA	NA	NA	NA	NA	52 U	49 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 7(10-12')	6/25/2020		26	6.3	3.7	NA	NA	NA	0.26 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 7(13-15')	13-15	27	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB7 (14-16')	3/11/2019	14-16	NA	NA	NA	NA	NA	NA	54 U	51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB 8	AOC1-SB8 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.39 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB8 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.38 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB8 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.45 U	0.47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB8 (6-8')		6-8	NA	NA	NA	NA	NA	NA	0.55 U	0.53 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB8 (6-8')		6-8 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB8 (10-12')		10-12	NA	NA	NA	NA	NA	NA	0.43 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB8 (10-12')		10-12 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB8 (14-16')		14-16	NA	NA	NA	NA	NA	NA	0.51 U	0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB8 (14-16')	14-16 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
AOC1-SB 9	AOC1-SB9 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.42 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB9 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.48 U	0.51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB9 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.63 U	0.66 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 9(4-6')	6/25/2020	4-6	0.27 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB9 (6-8')	3/11/2019	6-8	NA	NA	NA	NA	NA	NA	0.42 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB9 (10-12')		10-12	NA	NA	NA	NA	NA	NA	0.53 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB9 (10-12')		10-12 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB9 (14-16')	14-16		NA	NA	NA	NA	NA	NA	0.44 U	0.47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB 10	AOC1-SB10 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	46 U	44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB10 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.45 U	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB10 (2-3')		2-3	NA	NA	NA	NA	NA	NA	0.57 U	0.54 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB10 (6-8')		6-8	NA	NA	NA	NA	NA	NA	49 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB10 (10-12')		10-12	NA	NA	NA	NA	NA	NA	47 U	44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB10 (14-16')		14-16	NA	NA	NA	NA	NA	NA	51 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB10 (23-25')	9/12/2019	23-25	84	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB10 (33-35')		33-35	170	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB10 (38-40')		38-40*	44	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB 11	AOC1-SB11 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	48 U	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB11 (0-0.5')		0-0.5 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB11 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	56 I	51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB11 (0.5-2')		0.5-2 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB11 (2-4')	4/30/2019	2-4	NA	NA	NA	NA	NA	NA	46 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB11 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	45 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB11 (10-12')		10-12	NA	NA	NA	NA	NA	NA	44 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB11 (14-16')	14-16		NA	NA	NA	NA	NA	NA	48 U	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB 12	AOC1-SB12 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.47 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB12 (0-0.5')		0-0.5 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB12 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.47 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB12 (0.5-2')		0.5-2 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 12(2-4')	6/22/2020	2-4	5.9	7.5	1.5	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 12(4-6')	6/25/2020	4-6	7.0	0.52	0.15 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 12(6-8')		6-8	12 J	0.14 UJ	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 12(10-12')		10-12	38	0.12 U	0.15 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 12(13-15')	13-15		70	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC1-SB 13	AOC1-SB13 (0-0.5')	3/11/2019	0-0.5	2.2	17 J3	NA	NA	0.97	1.2	2.2	0.79	0.040 U	0.074 U	0.056 U	0.059 U	NA	NA	NA	NA	0.36	NA	2.8
	AOC1-SB13 (0-0.5')		0-0.5 (RE)	-	17 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-
	AOC1-SB13 (0.5-2')		0.5-2	4.5	25 J3	NA	NA	1.0	1.6	3.3	0.77	0.040 U	0.074 U	0.057 U	0.060 U	NA	NA	NA	NA	0.084 I	NA	1.5
	AOC1-SB13 (0.5-2')	4/30/2019	0.5-2 (RE)	-	18 Q	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-
	AOC1-SB13 (2-4')		2-4	0.31	83 J3	NA	NA	0.27	0.13 I	0.14 I	0.028 U	0.046 U	0.086 U	0.065 U	0.069 U	NA	NA	NA	NA	0.045 I	NA	0.79
	AOC1-SB13 (6-8')		6-8	0.48 U	540	NA	NA	0.40 I	0.20 I	0.20 U	0.12 U	0.20 U	0.38 U	0.29 U	0.30 U	NA	NA	NA	NA	0.14 U	NA	2.6
	AOC1-SB13 (10-12')		10-12	0.53	150	NA	NA	0.45	0.14 I	0.061 I	0.027 U	0.045 U	0.084 U	0.064 U	0.067 U	NA	NA	NA	NA	0.30	NA	3.5
AOC1-SB 14	AOC1-SB13 (14-16')	5/1/2019	14-16	1.7	120	NA	NA	1.3	0.38	0.080 I	0.032 U	0.053 U	0.099 U	0.075 U	0.080 U	NA	NA	NA	NA	1.3	NA	13
	AOC1-SB14 (0-0.5')		0-0.5	35	110,000 L J3	NA	NA	36	3.5 U	4.5 I	2.6 U	4.3 U	8.0 U	6.1 U	6.4 U	NA	NA	NA	NA	6.0 I	NA	100
	AOC1-SB14 (0-0.5')		0-0.5 (RE)	-	92,000 Q L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-	NA	-
	AOC1-SB14 (0.5-2')		0.5-2	37	76,000 L	NA	NA	55	3.8 U	4.7 U	2.9 U	4.7 U	8.8 U	6.7 U	7.1 U	NA	NA	NA	NA	5.6 I	NA	86
	AOC1-SB14 (2-4')	4/30/2019	2-4	18	28,000 L J3	NA	NA	28	1.8 I	1.9 U	1.2 U	1.9 U	3.6 U	2.7 U	2.9 U	NA	NA	NA	NA	5.6 I	NA	54
	AOC1-SB14 (6-8')	5/2/2019	6-8	9.3 J3	2,500 L J3	NA	NA	6.2 J3	0.68 U	0.85 U	0.52 U	0.85 U	1.6 U	1.2 U	1.3 U	NA	NA	NA	NA	2.3 I	NA	21 J3
	AOC1-SB 14(6-8')	6/25/2020	6-8	160	18,000	NA	56	110	40	0.40 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.62 I	0.28 U	NA	220	290	2,800
AOC1-SB 15	AOC1-SB14 (10-12')	5/2/2019	10-12	19 J3	2,700 J3 L	NA	NA	12 J3	1.6 J3	0.11 I	0.044 I	0.044 U	0.083 U	0.063 U	0.067 U	NA	NA	NA	NA	7.2 J3	NA	77 J3
	AOC1-SB 14(10-12')	6/25/2020	10-12	37	25,000 J	NA	42	58	7.4	0.73	0.40 I	0.11 U	0.15 I	0.11 U	0.11 U	0.23 UJ	27 J	6.6 J	NA	190 J	610 J	550 J
	AOC1-SB14 (14-16')	5/2/2019	14-16	100	2,800	NA	NA	140	21 I	5.5 U	3.4 U	5.5 U	10 U	7.9 U	8.3 U	NA	NA	NA	NA	120	NA	770
	AOC1-SB15 (0-1')	3/11/2019	0-1	2.0	47	NA	NA	1.3	0.98	1.7	1.3	2.3	0.42	0.073 U	0.077 U	NA	NA	NA	NA	0.42	NA	4.1
	AOC1-SB15 (1-2')		1-2	0.83	110	NA	NA	0.36	0.26	2.0	0.42	0.16 I	0.084 U	0.064 U	0.067 U	NA	NA	NA	NA	0.098 I	NA	2.3
	AOC1-SB15 (2-3.5')		2-3.5	0.61	58	NA	NA	0.36	0.25 I	0.74	0.21 I	0.17 I	0.098 U	0.074 U	0.079 U	NA	NA	NA	NA	0.16 I	NA	2.0
	AOC1-SB15 (6-8')	4/30/2019	6-8	1.1	88	NA	NA	0.70	0.50	0.72	0.030 U	0.11 I	0.092 U	0.070 U	0.074 U	NA	NA	NA	NA	0.64	NA	6.1
AOC1-SB 16	AOC1-SB16 (0-0.5')		0-0.5	1.0	10 J3	NA	NA	0.83	0.79	0.76	0.26	0.28	0.076 U	0.058 U	0.061 U	NA	NA	NA	NA	0.31	NA	1.8
	AOC1-SB16 (0.5-2')		0.5-2	0.98	30 J3	NA	NA	1.2	0.72	1.2	0.062 I	0.048 U	0.088 U	0.067 U	0.071 U	NA	NA	NA	NA	0.43	NA	2.9
	AOC1-SB16 (2-4')		2-4	0.72	20 J3	NA	NA	0.65	0.41	0.35	0.025 U	0.041 U	0.077 U	0.059 U	0.062 U	NA	NA	NA	NA	0.34	NA	2.0
	AOC1-SB16 (6-8')		6-8	0.17 I	13	NA	NA	0.24	0.10 I	0.040 U	0.024 U	0.040 U	0.074 U	0.056 U	0.059 U	NA	NA	NA	NA	0.21 I	NA	1.9
	AOC1-SB16 (10-12')	5/1/2019	10-12	0.33	61	NA	NA	0.88	0.14 I	0.068 I	0.026 U	0.042 U	0.078 U	0.060 U	0.063 U	NA	NA	NA	NA	0.81	NA	7.9
AOC1-SB 17	AOC1-SB16 (14-16')	4/30/2019	14-16	0.36	98	NA	NA	0.69	0.15 I	0.099 I	0.026 U	0.043 U	0.079 U	0.061 U	0.064 U	NA	NA	NA	NA	0.61	NA	5.2
	AOC1-SB17 (0-0.5')		0-0.5	5.0	76 J3	NA	NA	5.3	0.83	0.36	0.27	1.6	0.49	0.21	NA	NA	NA	NA	NA	3.1	NA	38
	AOC1-SB17 (0.5-2')		0.5-2	0.62	120 J3	NA	NA	1.0	0.28	0.48	0.13 I	0.058 I	0.076 U	0.058 U	0.061 U	NA	NA	NA	NA	0.79	NA	11
	AOC1-SB17 (2-4')		2-4	1.0	170 J3	NA	NA	1.3	0.33	0.55	0.11 I	0.069 I	0.081 U	0.062 U	0.065 U	NA	NA	NA	NA	0.66	NA	12
	AOC1-SB 17(4-6')	6/23/2020	4-6	0.20 I	420	NA	0.51 U	0.75 I	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.51 U	0.25 U	NA	0.97	1.0	7.8
AOC1-SB 18	AOC1-SB17 (6-8')	5/1/2019	6-8	0.32	260	NA	NA	0.73	0.082 I	0.041 U	0.055 I	0.041 U	0.076 U	0.058 U	0.061 U	NA	NA	NA	NA	0.47	NA	5.4
	AOC1-SB17 (10-12')		10-12	0.66	310	NA	NA	1.3	0.12 I	0.042 U	0.026 U	0.042 U	0.078 U	0.059 U	0.063 U	NA	NA	NA	NA	0.95	NA	8.4
	AOC1-SB17 (14-16')		14-16	12	590	NA	NA	9.2	1.7	0.078 I	0.030 U	0.049 U	0.091 U	0.069 U	0.073 U	NA	NA	NA	NA	11	NA	110
	AOC1-SB18 (0-0.5')	4/30/2019	0-0.5	0.84	100 J3	NA	NA	1.3	0.42	0.70	0.23	0.26	0.072 U	0.055 U	0.058 U	NA	NA	NA	NA	1.0	NA	12
	AOC1-SB18 (0.5-2')		0.5-2	7.2	720 J3	NA	NA	8.1	1.1	0.23	0.75	0.95	0.36	0.11 I	0.059 U	NA	NA	NA	NA	3.0	NA	28
	AOC1-SB18 (2-4')		2-4	2.6 I	3,100 L J3	NA	NA	3.9 I	0.62 U	0.77 U	0.47 U	0.77 U	1.4 U	1.1 U	1.2 U	NA	NA	NA	NA	1.8 I	NA	20
	AOC1-SB 18(2-4')	6/23/2020	2-4	0.40 I	1,100	NA	0.49 U	0.41 I	0.24 U	0.12 U	0.12 I	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	2.2	NA	0.73	0.77	8.8
AOC1-SB 19	AOC1-SB 18(4-6')	6/25/2020	4-6	0.57	2,200	NA	0.46 U	1.4	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	0.52 U	NA	2.9	2.8	20
	AOC1-SB18 (6-8')	5/1/2019	6-8	49	2,400	NA	NA	47	7.7 I	4.7 U	2.9 U	4.7 U	8.7 U	6.6 U	7.0 U	NA	NA	NA	NA	56	NA	330
	AOC1-SB18 (10-12')		10-12	98	2,400	NA	NA	130	20 I	5.2 U	3.2 U	5.2 U	9.6 U	7.3 U	7.7 U	NA	NA	NA	NA	150	NA	850
	AOC1-SB18 (14-16')		14-16	100	2,200	NA	NA	130	25 I	5.4 U	3.3 U	5.4 U	10 U	7.7 U	8.1 U	NA	NA	NA	NA	200	NA	970
	AOC1-SB19 (0-0.5')	4/30/2019	0-0.5	99	130,000 L J3	NA	NA	170	13 I	4.5 U	3.9 I	4.5 U	8.3 U	6.3 U	6.7 U	NA	NA	NA	NA	16 I	NA	470
	AOC1-SB19 (0.5-2')		0.5-2	65	110,000 L J3	NA	NA	66	4.9 I	6.4 I	2.7 U	4.4 U	8.1 U	6.2 U	6.6 U	NA	NA	NA	NA	12 I	NA	200
	AOC1-SB19 (2-3')		2-3	91	110,000 L J3	NA	NA	92	7.1 I	5.4 I	4.2 I	1.7 I	2.9 U	2.2 U	2.4 U	NA	NA	NA	NA	14	NA	330
	AOC1-SB 19(4-6')	6/25/2020	4-6	60	11,000	NA	65	110	8.4	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	8.8 I	2.5 U	NA	84	79	710 J
AOC1-SB 19	AOC1-SB19 (6-8')	5/2/2019	6-8	68	9,000 L	NA	NA	69	14 I	4.2 U	2.5 U	4.2 U	7.8 U	5.9 U	6.2 U	NA	NA	NA	NA	95	NA	530
	AOC1-SB 19(6-8')	6/25/2020	6-8	53	6,200	NA	63	110	12	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	8.9 I	2.8 U	NA	91	110	970 J
	AOC1-SB19 (10-12')	5/2/2019	10-12	400	4,800 L	NA	NA	1,100	160	5.4 U	3.3 U	5.4 U	10 U	7.7 U	8.1 U	NA	NA	NA	NA	1,300	NA	3,200 L
	AOC1-SB 19(10-12')	6/25/2020	10-12	52	19,000	NA	54	91	14	1.3 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	12 I	3.1 I	NA	130	150	870 J
	AOC1-SB 19(13-15')		13-15	45	2,700	NA	23	54	14	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	1.6 I	1.5	NA	120	130	860 J
AOC1-SB 19	AOC1-SB19 (14-16')	5/2/2019	14-16	140	2,400 L	NA	NA	280	53	4.5 U	2.8 U	4.5 U	8.4 U	6.4 U	6.8 U	NA	NA	NA	NA	450	NA	1,300

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC1-SB 13	AOC1-SB13 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.43 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB13 (0-0.5')		0-0.5 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB13 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.43 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB13 (0.5-2')		0.5-2 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB13 (2-4')	4/30/2019	2-4	NA	NA	NA	NA	NA	NA	0.48 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB13 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	2.1 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB13 (10-12')		10-12	NA	NA	NA	NA	NA	NA	0.46 U	0.49 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB13 (14-16')		14-16	NA	NA	NA	NA	NA	NA	0.55 U	0.58 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 14	AOC1-SB14 (0-0.5')	3/11/2019	0-0.5	NA	NA	NA	NA	NA	NA	44 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB14 (0-0.5')		0-0.5 (RE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB14 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	49 U	51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB14 (2-4')	4/30/2019	2-4	NA	NA	NA	NA	NA	NA	20 U	21 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB14 (6-8')	5/2/2019	6-8	NA	NA	NA	NA	NA	NA	8.7 U	9.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 14(6-8')	6/25/2020		310	8.3	5.8	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB14 (10-12')	5/2/2019	10-12	NA	NA	NA	NA	NA	NA	0.46 U	0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 14(10-12')	6/25/2020		140 J	81 J	55 J	NA	NA	NA	0.38 IJ	0.42 IJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB14 (14-16')	5/2/2019	14-16	NA	NA	NA	NA	NA	NA	57 U	60 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB 15	AOC1-SB15 (0-1')	3/11/2019	0-1	NA	NA	NA	NA	NA	NA	1.7 I	0.56 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB15 (1-2')		1-2	NA	NA	NA	NA	NA	NA	0.46 U	0.49 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB15 (2-3.5')		2-3.5	NA	NA	NA	NA	NA	NA	0.54 U	0.57 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB15 (6-8')		6-8	NA	NA	NA	NA	NA	NA	0.51 U	0.53 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 16	AOC1-SB16 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.42 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB16 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.49 U	0.52 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB16 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.43 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB16 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	0.41 U	0.43 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB16 (10-12')		10-12	NA	NA	NA	NA	NA	NA	0.43 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB16 (14-16')		14-16	NA	NA	NA	NA	NA	NA	0.44 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 17	AOC1-SB17 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	1.2 I	1.5 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB17 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.42 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB17 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.45 U	0.47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 17(4-6')	6/23/2020	4-6	0.37 I	0.82	0.32 I	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB17 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	0.42 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB17 (10-12')		10-12	NA	NA	NA	NA	NA	NA	0.43 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB17 (14-16')	14-16		NA	NA	NA	NA	NA	NA	0.50 U	0.53 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB 18	AOC1-SB18 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.40 U	0.42 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB18 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	3.1	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB18 (2-4')		2-4	NA	NA	NA	NA	NA	NA	7.9 U	8.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 18(2-4')	6/23/2020		0.91	5.0	2.5	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 18(4-6')	6/25/2020	4-6	2.9	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB18 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	48 U	51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB18 (10-12')		10-12	NA	NA	NA	NA	NA	NA	53 U	56 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB18 (14-16')		14-16	NA	NA	NA	NA	NA	NA	56 U	59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 19	AOC1-SB19 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	18 U	48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB19 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	18 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB19 (2-3')		2-3	NA	NA	NA	NA	NA	NA	16 U	17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 19(4-6')	6/25/2020	4-6	130	30	27	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB19 (6-8')	5/2/2019	6-8	NA	NA	NA	NA	NA	NA	43 U	45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 19(6-8')	6/25/2020		100	8.1	9.4	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB19 (10-12')	5/2/2019	10-12	NA	NA	NA	NA	NA	NA	56 U	59 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 19(10-12')	6/25/2020		130	77	60	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 19(13-15')	6/25/2020	13-15	50	3.7	4.7	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB19 (14-16')	5/2/2019	14-16	NA	NA	NA	NA	NA	NA	46 U	49 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC1-SB 20	AOC1-SB20 (0-0.5')	4/30/2019	0-0.5	9.8	740 J3	NA	NA	15	2.7	1.4 I	1.4 I	2.5	1.4 I	0.53 U	0.56 U	NA	NA	NA	NA	7.3	NA	47
	AOC1-SB20 (0.5-2')		0.5-2	5.1	1,200 J3	NA	NA	8.2	1.6 I	0.54 I	1.1 I	0.74 I	0.75 U	0.57 U	0.60 U	NA	NA	NA	NA	2.6	NA	47
	AOC1-SB20 (2-4')		2-4	3.2	990 J3	NA	NA	5.6	0.79 I	0.49 I	0.49 I	0.47 U	0.87 U	0.66 U	0.70 U	NA	NA	NA	NA	2.2 I	NA	29
	AOC1-SB20 (6-8')	5/1/2019	6-8	16 I	2,000	NA	NA	33	3.5 I	4.1 U	2.5 U	4.1 U	7.6 U	5.8 U	6.1 U	NA	NA	NA	NA	20 I	NA	160
	AOC1-SB20 (10-12')		10-12	49	2,200	NA	NA	69	8.1 I	4.3 U	2.6 U	4.3 U	8.0 U	6.1 U	6.4 U	NA	NA	NA	NA	39	NA	360
	AOC1-SB20 (14-16')		14-16	64	3,000 L	NA	NA	57	8.5 I	4.2 U	2.6 U	4.2 U	7.9 U	6.0 U	6.3 U	NA	NA	NA	NA	43	NA	430
AOC1-SB 21	AOC1-SB21 (0-0.5')	4/30/2019	0-0.5	79	94,000 L J3	NA	NA	140	9.8 I	7.2 I	3.7 I	3.7 U	7.0 U	5.3 U	5.6 U	NA	NA	NA	NA	19 I	NA	470
	AOC1-SB21 (0.5-2')		0.5-2	95 J3	110,000 J3 L	NA	NA	68 J3	6.8 I	7.6 I J3	2.3 U	3.8 U	7.0 U	5.3 U	5.6 U	NA	NA	NA	NA	19 I	NA	810 J3
	AOC1-SB21 (2-4')		2-4	270	24,000 L	NA	NA	89	9.5 I	4.1 U	2.5 U	4.1 U	7.7 U	5.9 U	6.2 U	NA	NA	NA	NA	81	NA	1,300
	AOC1-SB 21(2-4')	6/23/2020	2-4	6.4	14,000	NA	9.9	31	2.4	0.29 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	7.6 I	3.5 I	NA	130	94	440
	AOC1-SB 21(4-6')	6/24/2020	4-6	43	3,000	NA	5.5	11	1.7	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	39	39	330
	AOC1-SB21 (6-8')	5/2/2019	6-8	1,200	6,500 L	NA	NA	370	180	4.1 U	2.5 U	4.1 U	7.6 U	5.8 U	6.1 U	NA	NA	NA	NA	170	NA	4,500 L
	AOC1-SB 21(6-8')	6/24/2020	6-8	41	3,400	NA	6.0	16	2.9	0.13 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.45 U	0.23 U	NA	33	29	470
	AOC1-SB 21(10-12')		10-12	43	3,400	NA	17	50	16	0.11 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	1.7 I	0.61 I	NA	82	170	1,600
AOC1-SB 22	AOC1-SB 21(13-15')		13-15	27	1,500	NA	25	60	12	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.55 U	0.28 U	NA	190	180	1,000
	AOC1-SB22 (0-0.5')	4/30/2019	0-0.5	3.2	780	NA	NA	4.9	0.44 I	0.47 U	0.47 I	0.60 I	0.88 U	0.67 U	0.71 U	NA	NA	NA	NA	3.8	NA	21
	AOC1-SB22 (0.5-2')		0.5-2	3.3	1,200	NA	NA	5.3	0.60 I	0.38 U	0.27 I	0.38 U	0.71 U	0.54 U	0.58 U	NA	NA	NA	NA	5.4	NA	22
	AOC1-SB22 (2-4")		2-4	16	3,000 L	NA	NA	16	2.5	0.40 U	0.25 U	0.40 U	0.75 U	0.57 U	0.61 U	NA	NA	NA	NA	18	NA	83
	AOC1-SB 22(2-4')	6/23/2020	2-4	0.83	1,300	NA	0.50 I	1.7	0.24 U	0.12 U	0.13 I	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	0.30 I	NA	3.1	2.9	20
	AOC1-SB 22(4-6')	6/24/2020	4-6	22	3,500	NA	11	26	6.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	84	82	450
	AOC1-SB22 (6-8')	5/1/2019	6-8	190	5,800 L	NA	NA	180	35	4.3 U	2.6 U	4.3 U	8.0 U	6.1 U	6.4 U	NA	NA	NA	NA	270	NA	1,300
	AOC1-SB 22(6-8')	6/24/2020	6-8	18	1,400	NA	13	33	6.9	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	0.22 U	NA	98	97	610
	AOC1-SB 22(10-12')		10-12	23	1,000	NA	9.5	31	6.3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	41	51	420
	AOC1-SB22 (14-16')		14-16	25	2,000	NA	14	43	8.2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	58	63	380
	AOC1-SB22 (23-25')	9/12/2019	23-25	49	1,300	NA	37	130	21	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.68 U	0.34 U	NA	160	150	790
	AOC1-SB22 (33-35')		33-36	40	1,600	NA	4.0	12	8.3	0.16 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.43 U	0.22 U	NA	20	25	350
AOC1-SB 23	AOC1-SB22 (37.5-39.5')		37.5-39.5*	4.2	290	NA	0.86 I	2.6	0.52 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.59 U	0.29 U	NA	3.3	4.1	41
	AOC1-SB23 (0-0.5')	4/30/2019	0-0.5	3.0	160	NA	NA	2.7	0.60	0.72	0.52	0.66	0.18 I	0.053 U	0.056 U	NA	NA	NA	NA	3.2	NA	18
	AOC1-SB23 (0.5-2')		0.5-2	5.1	2,200	NA	NA	14	1.2 I	0.45 U	0.28 U	0.45 U	0.84 U	0.64 U	0.68 U	NA	NA	NA	NA	15	NA	83
	AOC1-SB23 (2-4')		2-4	9.0	3,400 L	NA	NA	14	1.3 I	0.53 U	0.32 U	0.53 U	0.99 U	0.75 U	0.80 U	NA	NA	NA	NA	12	NA	80
	AOC1-SB23 (6-8')	5/1/2019	6-8	92	2,700 L	NA	NA	100	16 I	4.6 U	2.8 U	4.6 U	8.6 U	6.5 U	6.9 U	NA	NA	NA	NA	170	NA	840
	AOC1-SB23 (14-16')	9/11/2019	14-16	0.14 U	0.28 U	NA	0.28 U	0.24 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	1.9	0.99	1.6
	AOC1-SB23 (23-25')		23-25	19	440	NA	0.60 I	5.8	3.9	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	5.5	14	170
	AOC1-SB23 (33-35')		33-35*	3.1	190	NA	0.96 I	4.1	0.78	0.30 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.54 U	0.27 U	NA	4.0	4.2	31
	AOC1-SB23 (43-45')		43-45*	0.29 I	16	NA	0.32 U	0.26 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.64 U	0.32 U	NA	0.26 I	0.19 I	1.9
AOC1-SB 24	AOC1-SB24 (0-0.5')	4/30/2019	0-0.5	0.63	10	NA	NA	0.49	0.50	0.66	1.3	0.84	0.59	0.057 U	0.061 U	NA	NA	NA	NA	0.32	NA	1.3
	AOC1-SB24 (0.5-2')		0.5-2	0.51	19	NA	NA	0.13 I	0.14 I	1.8	0.28	0.038 U	0.081 I	0.054 U	0.057 U	NA	NA	NA	NA	0.089 I	NA	0.67
	AOC1-SB24 (2-4')		2-4	0.73	23	NA	NA	0.12 I	0.18 I	0.65	0.73	0.036 U	0.11 I	0.051 U	0.054 U	NA	NA	NA	NA	0.060 I	NA	1.3
	AOC1-SB24 (6-8')	5/1/2019	6-8	3.2	1.7	NA	NA	0.13 I	0.15 I	0.037 U	0.022 U	0.037 U	0.068 U	0.052 U	0.055 U	NA	NA	NA	NA	0.055 I	NA	1.7
	AOC1-SB24 (13-15')	11/11/2019	13-15	0.34 I	0.47 I	NA	0.22 U	0.11 U	0.12 I	2.5	0.11 U	0.38 I	0.11 U	2.6	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U	0.71
	AOC1-SB24 (23-25')		23-25	0.37 I	0.39 I	NA	0.24 U	0.12 U	0.12 U	1.6	0.12 U	0.12 U	0.12 U	0.12 I	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.19 I	0.21 I	0.83
AOC1-SB 25	AOC1-SB24 (29-31')		29-31	0.36 I	0.40 I	NA	0.23 U	0.12 U	0.12 U	1.2	0.12 U	0.12 I	0.12 U	1.1	0.12 U	0.23 U	0.47 U	0.23 U	NA	0.20 I	0.13 I	0.57
	AOC1-SB25 (0-0.5')	4/30/2019	0-0.5	0.52	8.0	NA	NA	0.24 I	0.22 I	0.35	0.85	0.047 U	0.087 U	0.066 U	0.070 U	NA	NA	NA	NA	0.032 U	NA	0.54
	AOC1-SB25 (0.5-2')		0.5-2	0.72	150	NA	NA	0.14 I	0.18 I	2.3	0.046 U	0.076 U	0.14 U	0.11 U	0.11 U	NA	NA	NA	NA	0.053 U	NA	0.45
	AOC1-SB25 (2-4')		2-4	1.1	270	NA	NA	0.21 U	0.16 I	0.52 I	0.11 U	0.18 U	0.34 U	0.26 U	0.28 U	NA	NA	NA	NA	0.13 U	NA	0.97 I
	AOC1-SB25 (6-8')	5/1/2019	6-8	1.4	390	NA	NA	0.23 U	0.26 I	0.20 U	0.12 U	0.20 U	0.37 U	0.28 U	0.30 U	NA	NA	NA	NA	0.14 U	NA	1.8
	AOC1-SB25 (13-15')	11/11/2019	13-15	1.3	120	NA	0.22 U	0.26 I	0.45	3.9	0.11 U	0.11 U	0.11 U	0.17 I	0.11 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U	4.0
	AOC1-SB25 (23-25')		23-25	0.61	55	NA	0.23 U	0.18 I	0.25 I	0.28 I	0.12 U	0.18 I	0.12 U	0.70	0.12 U	0.23 U	0.47 U	0.23 U	NA	0.12 U	0.12 U	2.2
	AOC1-SB25 (31-33')		31-33	1.4	41	NA	0.22 U	0.24 I	0.89	0.18 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.13 I	4.8

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC1-SB 20	AOC1-SB20 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	4.4 I	4.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB20 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	4.1 U	4.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB20 (2-4')		2-4	NA	NA	NA	NA	NA	NA	4.8 U	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB20 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	42 U	44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB20 (10-12')		10-12	NA	NA	NA	NA	NA	NA	44 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB20 (14-16')		14-16	NA	NA	NA	NA	NA	NA	43 U	46 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 21	AOC1-SB21 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	15 U	41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB21 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	15 U	41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB21 (2-4')		2-4	NA	NA	NA	NA	NA	NA	43 U	45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 21(2-4')	6/23/2020		43	5.9	3.7 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 21(4-6')	6/24/2020	4-6	140	0.22 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB21 (6-8')	5/2/2019	6-8	NA	NA	NA	NA	NA	NA	42 U	44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 21(6-8')			120	0.32 I	0.16 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 21(10-12')	6/24/2020	10-12	56	5.3	4.0	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 21(13-15')		13-15	41	0.18 I	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 22	AOC1-SB22 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	7.9 I	5.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB22 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	3.9 U	4.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB22 (2-4")		2-4	NA	NA	NA	NA	NA	NA	4.1 U	4.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 22(2-4')	6/23/2020		1.8	2.9	1.8	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 22(4-6')	6/24/2020	4-6	37	0.17 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB22 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	44 U	47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 22(6-8')			31	0.12 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 22(10-12')	6/24/2020	10-12	32	0.12 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB22 (14-16')		14-16	41	0.66	0.64	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB22 (23-25')	9/12/2019	23-25	60	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB22 (33-35')		33-36	47	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB22 (37.5-39.5')		37.5-39.5*	5.8	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 23	AOC1-SB23 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.40 I	0.58 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB23 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	4.6 U	4.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB23 (2-4')		2-4	NA	NA	NA	NA	NA	NA	5.5 U	5.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB23 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	47 U	50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB23 (14-16')	9/11/2019	14-16	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB23 (23-25')		23-25	21	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB23 (33-35')		33-35*	6.6	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB23 (43-45')		43-45*	0.20 I	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 24	AOC1-SB24 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.42 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB24 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.39 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB24 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.37 U	0.39 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB24 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	0.38 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB24 (13-15')	11/11/2019	13-15	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB24 (23-25')		23-25	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB 25	AOC1-SB24 (29-31')	4/30/2019	29-31	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB25 (0-0.5')		0-0.5	NA	NA	NA	NA	NA	NA	0.48 U	0.51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB25 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.78 U	0.82 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB25 (2-4')	5/1/2019	2-4	NA	NA	NA	NA	NA	NA	1.9 U	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB25 (6-8')		6-8	NA	NA	NA	NA	NA	NA	2.0 U	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB25 (13-15')	11/11/2019	13-15	1.9	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB25 (23-25')		23-25	0.27 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB25 (31-33')		31-33	0.25 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AOC1-SB 26	AOC1-SB26 (0-0.5')	4/30/2019	0-0.5	0.48	25	NA	NA	0.93	0.30	0.36	0.19 I	0.25	0.071 U	0.054 U	0.057 U	NA	NA	NA	NA	0.56	NA	4.9	
	AOC1-SB26 (0.5-2')		0.5-2	0.40	31	NA	NA	0.84	0.23	0.51	0.030 I	0.040 U	0.075 U	0.057 U	0.060 U	NA	NA	NA	NA	0.26	NA	1.8	
	AOC1-SB26 (2-4')		2-4	0.47	41	NA	NA	1.0	0.27	0.34	0.028 U	0.047 U	0.087 U	0.066 U	0.070 U	NA	NA	NA	NA	0.15 I	NA	2.0	
	AOC1-SB26 (6-8')	5/1/2019	6-8	0.10 U	9.7	NA	NA	0.080 I	0.034 U	0.042 U	0.026 U	0.042 U	0.078 U	0.060 U	0.063 U	NA	NA	NA	NA	0.056 I	NA	0.57	
	AOC1-SB26 (13-15')	11/11/2019	13-15	0.14 U	21	NA	0.28 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.25 I	0.14 U	0.28 U	0.56 U	0.28 U	NA	0.14 U	0.14 I	1.1	
	AOC1-SB26 (23-25')		23-25	0.15 I	52	NA	0.27 U	0.22 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.30 I	0.13 U	0.27 U	0.53 U	0.27 U	NA	0.35 I	0.42 I	5.0	
	AOC1-SB26 (33-35')		33-35	0.15 I	840	NA	0.26 U	0.18 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.52 I	0.13 U	0.26 U	0.53 U	2.6 U	NA	1.0	1.1	3.6 I	
AOC1-SB26 (36-38')	36-38*		0.16 U	860	NA	0.32 U	0.35 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.63 U	3.2 U	NA	1.6	1.5	3.2 I			
AOC1-SB 27	AOC1-SB27 (0-0.5')	4/30/2019	0-0.5	0.73	47	NA	NA	1.4	0.33	0.41	0.21 I	0.42	0.10 I	0.058 U	0.062 U	NA	NA	NA	NA	0.65	NA	12	
	AOC1-SB27 (0.5-2')		0.5-2	0.31	34	NA	NA	0.67	0.14 I	0.28	0.14 I	0.13 I	0.069 U	0.052 U	0.056 U	NA	NA	NA	NA	0.43	NA	4.6	
	AOC1-SB27 (2-4')		2-4	0.35	32	NA	NA	0.71	0.17 I	0.31	0.087 I	0.062 I	0.078 U	0.059 U	0.062 U	NA	NA	NA	NA	0.27	NA	3.6	
	AOC1-SB27 (6-8')	5/1/2019	6-8	0.11 I	32	NA	NA	0.25	0.030 U	0.082 I	0.12 I	0.037 U	0.068 U	0.052 U	0.055 U	NA	NA	NA	NA	0.025 I	NA	0.67	
AOC1-SB 28	AOC1-SB28 (0-0.5')	4/30/2019	0-0.5	8.0 J3	2,100 L J3	NA	NA	14 J3	1.3 I	0.38 U	1.1 I	0.72 I	0.70 U	0.53 U	0.57 U	NA	NA	NA	NA	2.4	NA	45 J3	
	AOC1-SB 28(0-0.5')	6/23/2020		1.2	180	NA	0.42 U	0.94	0.21 U	0.10 U	0.12 I	0.77	0.70	0.15 I	0.10 U	0.21 U	0.42 U	0.95	NA	1.0	1.7	24	
	AOC1-SB28 (0.5-2')	4/30/2019		2.1 I	2,700 L	NA	NA	4.6	0.35 I	0.44 U	0.27 U	0.44 U	0.81 U	0.62 U	0.65 U	NA	NA	NA	NA	2.3 I	NA	12	
	AOC1-SB 28(0.5-2')	6/23/2020	0.5-2	0.59	150	NA	0.42 U	0.46 I	0.21 U	0.10 U	0.24 I	0.72	0.16 I	0.10 U	0.10 U	0.21 U	0.42 U	3.2	NA	0.31 I	0.67	9.8	
	AOC1-SB28 (2-4')	4/30/2019		2-4	11	12,000 L	NA	NA	12	1.1 I	0.99 U	0.60 U	0.99 U	1.8 U	1.4 U	1.5 U	NA	NA	NA	NA	17	NA	52
	AOC1-SB 28(2-4')	6/23/2020			2.0	5,700	NA	0.83 I	1.9	0.25 I	0.24 I	0.15 I	0.12 I	0.10 U	0.10 U	0.10 U	0.20 U	5.6 I	8.4	NA	3.0 I	5.0	21
	AOC1-SB 28(4-6')	6/24/2020	4-6	5.1	25,000 J	NA	1.9 I	5.5	0.60 IJ	1.2 J	0.36 IJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.25 UJ	31 J	12 J	NA	9.8 J	8.4 J	110 J	
	AOC1-SB28 (6-8')	5/1/2019	6-8	120	6,300 L	NA	NA	89	17 I	5.0 U	3.0 U	5.0 U	9.2 U	7.0 U	7.5 U	NA	NA	NA	NA	96	NA	720	
	AOC1-SB 28(6-8')	6/24/2020		11 J	5,300	NA	19	32	1.3	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 UJ	8.0 IJ	3.1 U	NA	21	12	100 J		
	AOC1-SB 28(10-12')	9/12/2019		10-12	16	4,400	NA	5.0	14	2.9	0.16 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	7.5 I	3.0 U	NA	18	19	200 J
	AOC1-SB28 (14-16')		14-16	13	2,600	NA	2.4	8.7	1.8	0.22 I	0.12 I	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	1.5 I	0.23 U	NA	10	8.8	94	
	AOC1-SB28 (23-25')		23-25	6.6	1,500	NA	0.71 I	5.2	1.3	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.96 I	0.25 U	NA	2.6	5.9	57	
	AOC1-SB28 (33-35')		33-35	9.2	3,900	NA	1.1	4.6	0.51	0.22 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	1.8 I	0.59 I	NA	5.4	3.8	24	
	AOC1-SB28 (36.5-38.5')		36.5-38.5*	12	910	NA	1.9	6.9	2.0	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.55 U	0.27 U	NA	9.7	9.0	82	
AOC 1-SB 29	AOC1-SB29 (0-0.5')	9/10/2019	0-0.5	1.2	12	NA	1.8	1.8	0.45	0.44 I	2.3	0.46	0.83	0.17 I	0.17 I	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.11 U	0.94	
	AOC1-SB29 (0.5-2')		0.5-2	0.28 I	35	NA	0.26 I	0.25 I	0.097 U	0.20 I	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U	0.67		
	AOC1-SB29 (2-4')		2-4	0.11 I	21	NA	0.22 U	0.12 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U	1.0	
AOC 1-SB 30	AOC1-SB30 (0-0.5')	9/10/2019	0-0.5	0.18 I	9.1	NA	0.33 I	0.43	0.15 I	0.12 I	0.15 I	0.15 I	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U	0.58	
	AOC1-SB30 (0.5-2')		0.5-2	0.41 I	67	NA	0.69 I	0.87	0.23 I	0.71	0.24 I	0.52	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U	2.1	
	AOC1-SB30 (2-4')		2-4	0.42 I	190	NA	0.43 I	0.61	0.18 I	1.3	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.17 I	6.8	
AOC 1-SB 31	AOC1-SB31 (0-0.5')	9/10/2019	0-0.5	0.40 I	31	NA	0.21 U	0.35 I	0.26 I	0.27 I	0.67	1.8	0.78	0.11 U	0.14 I	0.21 U	0.42 U	1.1	NA	0.11 U	0.11 U	2.1	
	AOC1-SB31 (0.5-2')		0.5-2	0.26 I	23	NA	0.20 U	0.26 I	0.15 I	0.13 I	0.39 I	1.0	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	1.7	NA	0.10 U	0.10 U	1.1	
	AOC1-SB31 (2-3')		2-3	0.26 I	46	NA	0.22 U	0.25 I	0.16 I	0.25 I	0.75	0.78	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	4.4	NA	0.11 U	0.11 U	2.0	
	AOC1-SB31 (6-8')	9/11/2019	6-8	0.11 U	200	NA	0.21 U	0.14 I	0.11 U	0.11 U	0.12 I	0.42 I	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	2.0	NA	0.11 U	0.11 U	1.1	
AOC 1-SB 32	AOC1-SB32 (0-0.5')	9/10/2019	0-0.5	6.9	9,700	NA	1.2	6.0	1.3	0.44	1.4	0.38 I	0.45	0.20 I	0.12 I	0.20 U	0.40 U	3.9	NA	5.2	8.5	88	
	AOC1-SB32 (0.5-2')		0.5-2	2.2	4,300	NA	0.73 I	3.5	0.58	0.17 I	0.23 I	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.40 I	NA	2.8	3.4	33	
	AOC1-SB32 (2-4')		2-4	4.4	15,000	NA	2.3	11	1.2	0.31 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	12	12	130	
	AOC1-SB 32(4-6')	6/24/2020	4-6	14	3,800	NA	2.8	10	1.8	0.13 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.45 U	0.23 U	NA	22	21	180 J	
	AOC1-SB32 (6-8')	9/11/2019	6-8	36	1,500	NA	13	29 J	9.3	0.12 U	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.23 U	0.46 U	0.23 U	NA	58	65	510	
	AOC1-SB 32(10-12')	6/24/2020	10-12	5.5	1,500	NA	3.1	9.0	1.8	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	37	36	180 J	
	AOC1-SB 32(13-15')		13-15	9.7	1,000	NA	7.9	17	3.5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.59 U	0.29 U	NA	51	45	170		
AOC 1-SB 33	AOC1-SB33 (0-0.5')	9/10/2019	0-0.5	0.77	900	NA	0.36 I	1.0	0.19 I	0.29 I	0.18 I	0.47	0.20 I	0.098 U	0.098 U	0.20 U	0.39 U	1.3	NA	0.65	1.1	12	
	AOC1-SB33 (0.5-2')		0.5-2	16	2,200	NA	11	39	5.6	0.53	0.19 I	0.14 I	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	0.82 I	NA	120	130	540	
	AOC1-SB33 (2-4')		2-4	33	2,200	NA	20	65	8.7	0.51 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.54 U	0.27 U	NA	120	140	580	
	AOC1-SB33 (6-8')	9/11/2019	6-8	16	1,300	NA	11	39	5.5	0.54 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.65 U	0.32 U	NA	59	64	280	
AOC 1-SB 34	AOC1-SB34 (0-0.5')	9/10/2019	0-0.5	0.82	64	NA	1.3	1.5	0.24 I	0.18 I	0.10 U	0.23 I	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	5.5	8.3	20	
	AOC1-SB34 (0.5-2')		0.5-2	0.44	52	NA	0.50 I	0.52	0.10 I	0.16 I	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.39 U	0.19 U	NA	2.1	3.2	9.3		
	AOC1-SB34 (2-4')		2-4	0.28 I	12	NA	0.24 U	0.21 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	0.24 U	NA	3.0	2.6	6.6	
	AOC1-SB34 (6-8')	9/11/2019	6-8	0.18 I	2.6	NA	5.3	6.8	0.31 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.58 U	0.29 U	NA	110	48	42	

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AOC1-SB 26	AOC1-SB26 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.39 U	0.41 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB26 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.41 U	0.44 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB26 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.48 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB26 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	0.43 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB26 (13-15')	11/11/2019	13-15	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB26 (23-25')		23-25	0.39 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB26 (33-35')		33-35	1.3 U	1.3 U	1.3 U	NA	NA	NA	1.3 U	1.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB26 (36-38')	36-38*		1.6 U	1.6 U	1.6 U	NA	NA	NA	1.6 U	1.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA		
AOC1-SB 27	AOC1-SB27 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	0.42 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB27 (0.5-2')		0.5-2	NA	NA	NA	NA	NA	NA	0.38 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB27 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.43 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB27 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	0.38 U	0.53 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC1-SB 28	AOC1-SB28 (0-0.5')	4/30/2019	0-0.5	NA	NA	NA	NA	NA	NA	3.9 U	6.1 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB 28(0-0.5')	6/23/2020		0.98	48	74	NA	NA	NA	0.87	0.23 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB28 (0.5-2')	4/30/2019	0.5-2	NA	NA	NA	NA	NA	NA	4.5 U	4.7 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB 28(0.5-2')	6/23/2020		0.27 I	65	16	NA	NA	NA	1.7	0.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB28 (2-4')	4/30/2019	2-4	NA	NA	NA	NA	NA	NA	10 U	11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB 28(2-4')	6/23/2020		13	17	11	NA	NA	NA	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB 28(4-6')	6/24/2020	4-6	100 J	88 J	64 J	NA	NA	NA	1.2 J	0.68 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB28 (6-8')	5/1/2019	6-8	NA	NA	NA	NA	NA	NA	51 U	54 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB 28(6-8')	6/24/2020		33	8.8	5.8	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB 28(10-12')	6/24/2020	10-12	55	6.4	5.0	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	AOC1-SB28 (14-16')	9/12/2019	14-16	27	0.12 U	0.13 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB28 (23-25')		23-25	26	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB28 (33-35')		33-35	25	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC1-SB28 (36.5-38.5')	36.5-38.5*		20	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
AOC 1-SB 29	AOC1-SB29 (0-0.5')	9/10/2019	0-0.5	0.11 U	0.49	0.70	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB29 (0.5-2')		0.5-2	0.097 U	0.33 I	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB29 (2-4')		2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 30	AOC1-SB30 (0-0.5')	9/10/2019	0-0.5	0.10 U	0.25 I	0.17 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB30 (0.5-2')		0.5-2	0.20 I	1.1	0.69	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB30 (2-4')		2-4	0.54	0.37 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 31	AOC1-SB31 (0-0.5')	9/10/2019	0-0.5	0.21 I	2.4	3.4	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB31 (0.5-2')		0.5-2	0.14 I	0.90	2.0	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB31 (2-3')		2-3	0.22 I	1.7	3.1	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB31 (6-8')	9/11/2019	6-8	0.11 U	10	1.6	NA	NA	NA	0.41 I	0.29 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 32	AOC1-SB32 (0-0.5')	9/10/2019	0-0.5	16	60	43	NA	NA	NA	0.43	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB32 (0.5-2')		0.5-2	13	18	8.4	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB32 (2-4')		2-4	24	7.2	1.7 J	NA	NA	NA	0.12 UJ	0.12 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 32(4-6')	6/24/2020	4-6	33	0.54	0.32 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB32 (6-8')	9/11/2019	6-8	58	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 32(10-12')	6/24/2020	10-12	13	1.1	1.6	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 32(13-15')		13-15	20	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 33	AOC1-SB33 (0-0.5')	9/10/2019	0-0.5	1.6	12	12	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB33 (0.5-2')		0.5-2	30	7.5	1.5	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB33 (2-4')		2-4	40	0.50 I	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB33 (6-8')	9/11/2019	6-8	28	1.2	0.50 I	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 34	AOC1-SB34 (0-0.5')	9/10/2019	0-0.5	1.3	0.58	0.27 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB34 (0.5-2')		0.5-2	0.78	0.14 I	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB34 (2-4')		2-4	0.62	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB34 (6-8')	9/11/2019	6-8	0.29 I	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDnA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPnS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 35	AOC1-SB35 (0-0.5')	9/10/2019	0-0.5	8.0	1,000	NA	0.75 I	1.8	0.16 I	0.44	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	1.5	3.8	55
	AOC1-SB35 (0.5-2')		0.5-2	2.4	2,400	NA	0.66 I	2.1	0.18 I	0.22 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	1.5	4.7	51
	AOC1-SB35 (2-4')	9/11/2019	2-4	100	3,900	NA	30	83	18	0.72	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	0.58 U	0.29 U	NA	140	180	1,300
	AOC1-SB35 (6-8')		6-8	1.9	1.3	NA	3.9	13	3.8	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	33	31	99
AOC 1-SB 36	AOC1-SB36 (0-0.5')	9/10/2019	0-0.5	1.6	69	NA	2.1	2.8	0.52	0.62	0.17 I	0.35 I	0.11 U	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	9.1	13	34
	AOC1-SB36 (0.5-2')		0.5-2	0.28 I	75	NA	0.45 I	0.51	0.096 U	0.18 I	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.19 U	0.39 U	0.19 U	NA	4.2	5.8	11
	AOC1-SB36 (2-4')		2-4	0.19 I	27	NA	0.21 I	0.29 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	3.4	3.3	5.6
	AOC1-SB 36(4-6')	6/24/2020	4-6	0.11 U	1.8	NA	0.44 U	0.37 I	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	7.0	5.1	9.4
	AOC1-SB36 (6-8')	9/11/2019	6-8	0.16 I	1.8	NA	0.33 I	0.45 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	7.8	6.5	12
	AOC1-SB 36(10-12')	6/24/2020	10-12	0.11 U	5.3	NA	0.45 U	0.33 I	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	0.22 U	NA	6.2	4.5	10
	AOC1-SB 36(13-15')		13-15	0.12 U	1.0	NA	0.48 U	0.48 I	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	8.2	5.8	12
	AOC1-SB 36(23-25')		23-25	0.11 U	0.23 U	NA	0.46 U	0.25 I	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	3.3	2.3	5.8
AOC1-SB 36(33-35')	33-35		0.16 U	0.31 U	NA	0.62 U	0.58 I	0.31 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 U	0.62 U	0.31 U	NA	9.3	4.2	5.8	
AOC 1-SB 37	AOC1-SB37 (0-0.5')	9/10/2019	0-0.5	1.2	61	NA	0.80 I	0.80	0.49	0.93	0.23 I	0.24 I	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	1.7	NA	0.55	0.74	4.7
	AOC1-SB37 (0.5-2')		0.5-2	0.35 I	56	NA	0.24 I	0.27 I	0.17 I	0.39 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.43 U	0.52 I	NA	0.25 I	0.40 I	6.7
	AOC1-SB37 (2-4')		2-4	0.30 I	47	NA	0.24 I	0.34 I	0.16 I	0.21 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	0.37 I	0.47	5.7
	AOC1-SB 37(4-6')	6/24/2020	4-6	0.18 I	13	NA	0.59 U	0.48 I	0.29 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.59 U	0.29 U	NA	4.9	2.9	7.7
	AOC1-SB37 (6-8')	9/11/2019	6-8	0.14 U	2.6	NA	0.28 U	0.30 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	2.1	1.5	4.2
	AOC1-SB 37(10-12')	6/24/2020	10-12	0.18 I	12	NA	0.54 U	0.49 I	0.27 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.54 U	0.27 U	NA	4.1	3.2	10
	AOC1-SB 37(13-15')		13-15	0.15 U	2.8	NA	0.59 U	0.30 U	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.59 U	0.30 U	NA	2.9	2.2	8.6
	AOC1-SB 37(23-25')		23-25	0.13 U	0.27 U	NA	0.53 U	0.27 U	0.27 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.53 U	0.27 U	NA	0.13 U	0.13 U	0.13 U
AOC1-SB 37(33-35')	33-35		0.32 I	44	NA	0.53 U	0.26 U	0.26 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.53 U	0.26 U	NA	0.27 I	0.23 I	4.7	
AOC 1-SB 38	AOC1-SB38 (0-0.5')	9/10/2019	0-0.5	0.19 I	11	NA	0.20 U	0.12 I	0.10 U	0.13 I	0.13 I	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.17 I	0.31 I	1.1
	AOC1-SB38 (0.5-2')		0.5-2	0.12 I	7.1	NA	0.20 U	0.16 I	0.099 U	0.14 I	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.40 U	0.20 U	NA	0.11 I	0.28 I	2.1
	AOC1-SB38 (2-4')		2-4	0.24 I	2.5	NA	0.21 U	0.17 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.15 I	0.62	1.9
	AOC1-SB 38(4-6')	6/25/2020	4-6	0.18 I	14	NA	0.40 U	0.25 I	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	0.20 U	NA	0.28 I	0.37 I	3.0 J
	AOC1-SB38 (6-8')	9/10/2019	6-8	0.27 I	0.69 I	NA	0.21 U	0.22 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	0.52	0.81	1.8
	AOC1-SB 38(10-12')	6/25/2020	10-12	0.13 U	0.76 I	NA	0.63 I	1.1	0.26 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.53 U	0.26 U	NA	20	7.9	11 J
	AOC1-SB 38(13-15')		13-15	0.15 U	0.52 I	NA	0.61 U	0.30 U	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.61 U	0.30 U	NA	1.9	0.62	1.3 J
AOC1-SB 38(23-25')	23-25		0.17 U	1.3 I	NA	0.66 U	0.33 U	0.33 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.33 U	0.66 U	0.33 U	NA	0.61 I	0.41 I	1.3 J	
AOC 1-SB 39	AOC1-SB 38(33-35')		33-35	0.18 U	2.1	NA	0.71 U	0.35 U	0.35 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.35 U	0.71 U	0.35 U	NA	1.9	1.2	3.4 J	
	AOC1-SB39 (0-0.5')	9/10/2019	0-0.5	0.41	13	NA	0.21 I	0.24 I	0.13 I	0.32 I	0.25 I	0.10 U	0.29 I	0.10 U	0.10 U	0.20 U	0.40 U	0.20 U	NA	0.31 I	0.37 I	1.4
	AOC1-SB39 (0.5-2')		0.5-2	0.20 I	19	NA	0.21 U	0.14 I	0.11 U	0.26 I	0.11 I	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	0.15 I	0.19 I	1.9
	AOC1-SB39 (2-4')		2-4	0.16 I	6.1	NA	0.20 U	0.13 I	0.10 U	0.16 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.11 I	0.29 I	2.7
AOC1-SB39 (6-8')		6-8	0.40	37	NA	0.20 U	0.17 I	0.099 U	0.28 I	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.39 U	0.20 U	NA	0.24 I	0.54	5.6	
AOC 1-SB 40	AOC1-SB40 (0-0.5')	9/10/2019	0-0.5	14	6,000	NA	0.92	4.2	1.1	2.9	0.76	0.20 I	0.77	0.11 U	0.20 I	0.21 U	0.55 I	330	NA	1.4	2.8	29

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 35	AOC1-SB35 (0-0.5')	9/10/2019	0-0.5	23	0.81	0.30 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB35 (0.5-2')		0.5-2	8.7	3.5	1.9	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB35 (2-4')	9/11/2019	2-4	130	3.4	2.0	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB35 (6-8')		6-8	0.92	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 36	AOC1-SB36 (0-0.5')	9/10/2019	0-0.5	1.9	1.2	0.61	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB36 (0.5-2')		0.5-2	0.45	0.096 U	0.096 U	NA	NA	NA	0.096 U	0.096 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB36 (2-4')		2-4	0.22 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 36(4-6')	6/24/2020	4-6	0.14 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB36 (6-8')	9/11/2019	6-8	0.25 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 36(10-12')	6/24/2020	10-12	0.12 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 36(13-15')		13-15	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 36(23-25')		23-25	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 36(33-35')		33-35	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 37	AOC1-SB37 (0-0.5')	9/10/2019	0-0.5	0.55	1.8	0.84	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB37 (0.5-2')		0.5-2	0.45	0.18 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB37 (2-4')		2-4	0.25 I	0.25 I	0.18 I	NA	NA	NA	0.12 UJ	0.12 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 37(4-6')	6/24/2020	4-6	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 UJ	0.15 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB37 (6-8')	9/11/2019	6-8	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 37(10-12')	6/24/2020	10-12	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 37(13-15')		13-15	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 37(23-25')		23-25	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 38	AOC1-SB 37(33-35')		33-35	0.36 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB38 (0-0.5')	9/10/2019	0-0.5	0.13 I	0.16 I	0.17 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB38 (0.5-2')		0.5-2	0.13 I	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB38 (2-4')		2-4	0.12 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 38(4-6')	6/25/2020	4-6	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB38 (6-8')	9/10/2019	6-8	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 38(10-12')	6/25/2020	10-12	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 38(13-15')		13-15	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 39	AOC1-SB 38(23-25')		23-25	0.17 U	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 38(33-35')		33-35	0.18 U	0.18 U	0.18 U	NA	NA	NA	0.18 U	0.18 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB39 (0-0.5')	9/10/2019	0-0.5	0.16 I	0.30 I	0.40 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB39 (0.5-2')		0.5-2	0.18 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 40	AOC1-SB39 (2-4')		2-4	0.18 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB39 (6-8')		6-8	1.3	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (0-0.5')	9/10/2019	0-0.5	64	15	7.3	NA	NA	NA	0.44	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (0.5-2')		0.5-2	9.9	2.1	0.81	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (2-4')		2-4	12	1.6	0.65	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (6-8')	9/12/2019	6-8	11	0.58	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (14-16')		14-16	36	0.53	0.18 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (23-25')		23-25	31	0.17 I	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (33-35')		33-35	6.5	2.6	1.3	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB40 (38-40')		38-40*	2.6	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 41	AOC1-SB41 (0-0.5')	11/5/2019	0-0.5	0.16 I	0.57	0.48 J	NA	NA	NA	0.11 U	0.11 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB41 (0.5'-2')		0.5-2	1.0	5.0	5.3	NA	NA	NA	0.24 I	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB41 (2'-4')		2-4	2.1 U	8.1 I	2.1 U	NA	NA	NA	2.1 U	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB41 (6'-8')		6-8	0.34 I	0.71	0.15 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB41 (13-15')	11/11/2019	13-15	0.31 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB41 (23-25')		23-25	2.1	0.19 I	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB41 (30-32')		30-32	1.2 U	1.2 U	1.2 U	NA	NA	NA	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB41 (32-33')		32-33*	0.65	0.68	0.13 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 42	AOC1-SB42 (0-0.5')	11/5/2019	0-0.5	0.29 I	72	NA	0.44 I	0.53	0.13 U	0.18 I	0.13 U	0.17 I	0.13 U	0.13 U	0.13 U	0.25 U	0.51 UJ	0.25 UJ	NA	2.4	0.92	9.4
	AOC1-SB42 (0.5'-2')		0.5-2	0.52	18	NA	0.55 I	0.80	0.24 I	0.18 I	0.12 U	0.14 I	0.12 U	0.12 U	0.12 U	0.24 U	0.47 UJ	0.24 UJ	NA	0.71	0.21 I	2.0
	AOC1-SB42 (2'-4')		2-4	0.13 I	9.5	NA	0.21 U	0.20 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 UJ	0.21 UJ	NA	0.26 I	0.10 U	0.88
	AOC1-SB42 (6'-8')	11/13/2019	6-8	0.11 U	4.9	NA	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 UJ	0.21 UJ	NA	0.18 I	0.11 U	0.71
	AOC1-SB42 (13-15')		13-15	0.12 U	1.7	NA	0.24 U	0.15 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	1.5	0.56	2.3
	AOC1-SB42 (23-25')		23-25	0.11 U	1.7	NA	0.22 U	0.19 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.90	1.0	5.5
AOC 1-SB 43	AOC1-SB43 (0-0.5')	11/5/2019	0-0.5	0.31 I	31	NA	0.42 I	0.67	0.11 U	0.11 U	0.11 U	0.12 I	0.13 I	0.11 U	0.11 U	0.22 U	0.44 UJ	0.22 UJ	NA	0.92	0.79	7.5
	AOC1-SB43 (0.5'-2')		0.5-2	0.11 U	61	NA	0.22 U	0.24 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 UJ	0.22 UJ	NA	0.21 I	0.24 I	4.0
	AOC1-SB43 (2'-4')		2-4	0.32 I	42	NA	0.25 U	0.63	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.49 UJ	0.25 UJ	NA	0.43 I	0.53	6.7
	AOC1-SB43 (6-8')	11/13/2019	6-8	0.36 I	3.8	NA	0.37 I	1.1	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.64 U	0.32 U	NA	1.2	1.8	14
	AOC1-SB43 (13-15')		13-15	0.23 I	3.9	NA	0.49 I	1.7	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	2.9	3.5	19
	AOC1-SB43 (23-25')		23-25	0.18 I	3.7	NA	0.24 U	0.66	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	1.0	1.4	10
AOC 1-SB 44	AOC1-SB43 (32-34')	11/5/2019	32-34	0.12 U	18	NA	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.23 I	0.12 U	0.15 I
	AOC1-SB44 (0-0.5')		0-0.5	0.11 U	18	NA	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.15 I	0.11 U	0.19 I	0.11 U	0.21 U	0.42 UJ	0.21 UJ	NA	0.35 I	0.46	2.4
	AOC1-SB44 (0.5'-2')		0.5-2	0.22 I	17	NA	0.23 I	0.33 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 UJ	0.21 UJ	NA	0.15 I	0.30 I	2.5
	AOC1-SB44 (2'-4')	11/12/2019	2-4	0.45 I	22	NA	0.28 U	0.71	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 UJ	0.28 UJ	NA	1.1	1.8	16
	AOC1-SB44 (6-8')		6-8	0.13 U	0.26 U	NA	0.56 I	1.7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.51 U	0.26 U	NA	18	9.7	25
	AOC1-SB44 (13-15')		13-15	0.16 U	0.58 I	NA	0.31 U	0.24 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 U	0.62 U	0.31 U	NA	1.1	0.67	2.0
AOC 1-SB 45	AOC1-SB44 (23-25')	11/12/2019	23-25	0.11 U	1.4	NA	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.50	0.43 I	1.4
	AOC1-SB44 (32-34')		32-34	1.7	30	NA	0.21 U	0.71	0.30 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	0.33 I	1.6	23
	AOC1-SB44 (35-37')		35-37*	0.31 I	5.8	NA	0.27 U	0.46 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.54 U	0.27 U	NA	0.69	0.82	6.0
	AOC1-SB45 (0-0.5')	11/5/2019	0-0.5	0.24 I	11	NA	0.26 I	0.35 I	0.12 I	0.27 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 UJ	0.21 UJ	NA	0.44	0.28 I	2.6
	AOC1-SB45 (0.5'-2')		0.5-2	0.51	3.4	NA	0.55 I	0.90	0.25 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 UJ	0.20 UJ	NA	0.40 I	0.41	1.9
	AOC1-SB45 (2'-4')		2-4	0.56	2.2	NA	0.72 I	1.3	0.33 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.54 UJ	0.27 UJ	NA	0.75	0.60	2.2
AOC 1-SB 46	AOC1-SB45 (6-8')	11/12/2019	6-8	0.12 U	0.25 U	NA	0.28 I	0.52	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.50 U	0.25 U	NA	1.4	1.2	5.0
	AOC1-SB45 (13-15')		13-15	0.15 U	0.30 U	NA	0.30 U	0.35 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.60 U	0.30 U	NA	2.8	0.70	0.82
	AOC1-SB45 (23-25')		23-25	0.11 U	2.2	NA	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.60	0.55	0.91
	AOC1-SB46 (0-0.5')	11/5/2019	0-0.5	3.1	310	NA	0.53 I	1.1	0.21 I	0.33 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	2.2 U	4.3 UJ	2.2 UJ	NA	2.7 I	3.3 I	33
	AOC1-SB46 (0.5'-2')		0.5-2	0.56	120	NA	0.21 U	0.36 I	0.12 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.43 UJ	0.21 UJ	NA	0.86	1.0	21
	AOC1-SB46 (2'-4')		2-4	4.5	1,300	NA	0.75 I	3.0	0.43 I	0.27 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 UJ	0.56 UJ	2.8 UJ	NA	13	25	71
AOC 1-SB 47	AOC1-SB46 (6-8')	11/12/2019	6-8	8.7	220	NA	1.3	7.8	1.6	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	22	19	96
	AOC1-SB46 (13-15')		13-15	2.3	20	NA	1.7	5.5	0.41 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	12	11	97
	AOC1-SB46 (23-25')		23-25	1.7	120	NA	1.8	5.8	0.68	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	0.23 U	NA	18	20	41
	AOC1-SB47 (0-0.5')	11/5/2019	0-0.5	43	10,000	NA	3.7	26	3.1	0.30 I	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.24 U	0.49 U	24 U	NA	23	40	440
	AOC1-SB47 (0.5'-2')		0.5-2	2.0	9,300	NA	1.8	9.1	0.55	0.13 I	0.17 I	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	20 U	NA	24	36	34 I
	AOC1-SB47 (2'-4')		2-4	26	3,600	NA	13	29	6.0	0.26 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	2.8 U	NA	110	97	570
AOC 1-SB 48	AOC1-SB47 (6-8')	11/12/2019	6-8	48	660	NA	16	60	45	0.16 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	2.2 U	4.5 U	0.22 U	NA	69	200	1,100
	AOC1-SB47 (13-15')		13-15	6.7	110	NA	2.3	12	4.2	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	26	24	130
	AOC1-SB47 (23-25')		23-25	7.8	81	NA	1.7	13	4.6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	19	19	99
	AOC1-SB47 (32-34')	11/12/2019	32-34	1.7	160	NA	0.38 I	1.4	0.39 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.43 U	0.22 U	NA	2.8	3.5	15
	AOC1-SB47 (35-37')		35-37*	1.2	130	NA	0.82 I	2.6	0.46 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.53 U	0.27 U	NA	5.9	4.9	25
	AOC1-SB48 (0-0.5')	11/5/2019	0-0.5	0.58	15	NA	0.70 I	0.85	0.22 I	0.24 I	0.10 U	0.11 I	0.10 U	0.20 I	0.10 U	0.21 U	0.41 U	0.21 U	NA	3.5	3.5	9.3
AOC 1-SB 48	AOC1-SB48 (0.5'-2')		0.5-2	0.53	7.9	NA	0.72 I	0.93	0.25 I	0.14 I	0.11 U	0.11 U	0.11 U	0.17 I	0.11 U	0.21 U	0.43 U	0.21 U	NA	3.1	2.6	7.4
	AOC1-SB48 (2'-4')		2-4	0.13 U	0.93 I	NA	0.38 I	0.53	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.52 U	0.26 U	NA	11	5.7	6.7
	AOC1-SB48 (6-8')	11/12/2019	6-8	0.13 U	0.27 U	NA	0.27 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.54 U	0.27 U	NA	4.3	1.1	1.0
	AOC1-SB48 (13-15')		13-15	0.10 U	0.20 U	NA	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	1.6	0.57	0.63
AOC 1-SB 48	AOC1-SB48 (23-25')	11/12/2019	23-25	2.8	140	NA	0.38 I	1.8	0.57	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.45 U	0.23 U	NA	3.3	5.7	28

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 42	AOC1-SB42 (0-0.5')	11/5/2019	0-0.5	1.2	0.76	0.26 I	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB42 (0.5'-2')		0.5-2	0.24 I	0.15 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB42 (2'-4')		2-4	0.10 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB42 (6'-8')	11/13/2019	6-8	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB42 (13-15')		13-15	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB42 (23-25')		23-25	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 43	AOC1-SB43 (0-0.5')	11/5/2019	0-0.5	0.42 I	1.2	8.3	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB43 (0.5'-2')		0.5-2	0.31 I	6.0	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB43 (2'-4')		2-4	0.50	0.26 I	0.13 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB43 (6-8')	11/13/2019	6-8	0.41 I	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB43 (13-15')		13-15	0.31 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB43 (23-25')		23-25	0.25 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 44	AOC1-SB44 (0-0.5')	11/5/2019	0-0.5	0.14 I	0.31 I	0.12 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB44 (0.5'-2')		0.5-2	0.29 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB44 (2'-4')		2-4	0.46 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB44 (6-8')	11/12/2019	6-8	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB44 (13-15')		13-15	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB44 (23-25')		23-25	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 45	AOC1-SB44 (32-34')	11/5/2019	32-34	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB44 (35-37')		35-37*	0.21 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB45 (0-0.5')	11/12/2019	0-0.5	0.12 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB45 (0.5'-2')		0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB45 (2'-4')		2-4	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB45 (6-8')	11/12/2019	6-8	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 46	AOC1-SB45 (13-15')		13-15	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB45 (23-25')		23-25	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB46 (0-0.5')	11/5/2019	0-0.5	4.6	6.6	2.8 I	NA	NA	NA	1.1 U	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB46 (0.5'-2')		0.5-2	1.1	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB46 (2'-4')		2-4	14	1.4 UJ	1.4 UJ	NA	NA	NA	1.4 UJ	1.4 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB46 (6-8')	11/12/2019	6-8	19	0.30 I	0.41 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 47	AOC1-SB46 (13-15')		13-15	1.9	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB46 (23-25')		23-25	2.8	0.78	1.1	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB47 (0-0.5')	11/5/2019	0-0.5	68	14 I	12 U	NA	NA	NA	12 U	12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB47 (0.5'-2')		0.5-2	10 U	26 I	15 I	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB47 (2'-4')		2-4	99	8.2	6.4	NA	NA	NA	1.4 U	1.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB47 (6-8')	11/12/2019	6-8	62	0.53	0.58	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 48	AOC1-SB47 (13-15')		13-15	6.6	0.70	0.69	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB47 (23-25')		23-25	6.7	1.9	1.5	NA	NA	NA	0.11 UJ	0.11 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB47 (32-34')	11/12/2019	32-34	4.7	0.73	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB47 (35-37')		35-37*	2.8	0.53 I	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB48 (0-0.5')	11/5/2019	0-0.5	0.25 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB48 (0.5'-2')		0.5-2	0.16 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 48	AOC1-SB48 (2'-4')		2-4	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB48 (6-8')	11/12/2019	6-8	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB48 (13-15')		13-15	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB48 (23-25')		23-25	5.9	0.30 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 49	AOC1-SB 49(0-0.5')	6/22/2020	0-0.5	0.50	130	NA	0.42 U	0.55 I	0.21 U	0.11 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	1.0	1.0	11
	AOC1-SB 49(0.5-2')		0.5-2	0.12 I	240	NA	0.41 U	0.50 I	0.21 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.85	0.54	3.9
	AOC1-SB 49(2-4')		2-4	0.23 I	280	NA	0.47 U	0.35 I	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.83	0.73	10
	AOC1-SB 49(4-6')	6/24/2020	4-6	0.35 I	290	NA	0.53 I	2.0	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	1.1	2.4	18
	AOC1-SB 49(6-8')		6-8	1.2	300	NA	1.0 I	4.1	0.26 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.52 U	0.26 U	NA	5.6	10	50
	AOC1-SB 49(10-12')		10-12	1.7	350	NA	0.88 I	2.7	0.40 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	0.24 U	NA	4.9	8.4	57
	AOC1-SB 49(13-15')		13-15	5.1	320	NA	1.7 I	4.9	0.98 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.54 U	0.27 U	NA	9.2	12	100
	AOC1-SB 49(23-25')		23-25	2.8	1,000	NA	0.48 U	1.5	0.44 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.33 I	NA	2.9	5.9	46
AOC 1-SB 50	AOC1-SB 50(0.0-5')	6/22/2020	0-0.5	2.2	290	NA	1.3 I	2.2	0.51 I	0.25 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	4.4	3.1	35
	AOC1-SB 50(0.5-2')		0.5-2	0.29 I	64	NA	0.41 U	0.21 U	0.21 U	0.22 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.44	0.40 I	4.3
	AOC1-SB 50(2-4')		2-4	1.1	180	NA	1.6 I	3.5	0.44 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 U	0.62 U	0.31 U	NA	21	18	100
	AOC1-SB 50(4-6')	6/23/2020	4-6	0.13 U	2.9	NA	0.83 I	2.3	0.27 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.53 U	0.27 U	NA	21	16	65
	AOC1-SB 50(6-8')		6-8	0.13 U	0.26 U	NA	0.53 U	0.37 I	0.26 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.53 U	0.26 U	NA	2.7	2.9	14
	AOC1-SB 50(10-12')		10-12	0.13 U	0.26 U	NA	0.53 U	0.26 U	0.26 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.53 U	0.26 U	NA	0.51 I	0.30 I	2.8
	AOC1-SB 50(13-15')		13-15	0.13 U	2.2	NA	0.51 U	0.46 I	0.26 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.51 U	0.26 U	NA	4.5	3.5	17
	AOC1-SB 50(23-25')		23-25	0.49	13	NA	0.42 U	0.66 I	0.21 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	1.8	3.4	21
AOC 1-SB 51	AOC1-SB 51(0-0.5')	6/22/2020	0-0.5	0.22 I	290	NA	0.43 U	0.31 I	0.21 U	0.13 I	0.11 U	0.18 I	0.11 U	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.56	0.55	4.8
	AOC1-SB 51(0.5-2')		0.5-2	0.10 U	300	NA	0.41 U	0.21 U	0.21 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.22 I	0.20 I	1.2
	AOC1-SB 51(2-4')		2-4	0.81	580	NA	0.66 I	1.7	0.25 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.50 U	0.25 U	NA	3.3	3.8	34
	AOC1-SB51 (4-6')	6/23/2020	4-6	2.7	750	NA	3.2	8.4	0.82 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.58 U	0.29 U	NA	22	23	110
	AOC1-SB 51(6-8')		6-8	3.1	200	NA	5.6	14	1.4	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.65 U	0.32 U	NA	36	43	200
	AOC1-SB 51(10-12')		10-12	1.2	230	NA	2.2	5.0	0.55 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.55 U	0.28 U	NA	14	17	82
	AOC1-SB 51(13-15')		13-15	0.14 U	1.5	NA	0.57 U	0.28 U	0.28 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.57 U	0.28 U	NA	0.57	0.26 I	0.58
	AOC1-SB 51(23-25')		23-25	0.14 U	2.0	NA	0.55 U	0.59 I	0.27 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.55 U	0.27 U	NA	1.6	1.7	3.9
AOC 1-SB 52	AOC1-SB 51(33-35')		33-35	2.5	430	NA	0.44 U	1.2	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	2.1	3.0	19
	AOC1-SB 52(0.0-5')	6/22/2020	0-0.5	120	14,000	NA	2.2	11	3.6	0.74	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.44 I	NA	12	36	770
	AOC1-SB 52(0.5-2')		0.5-2	22	1,000	NA	6.8	31	51	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	34	120	4,100
	AOC1-SB 52(2-4')		2-4	16	3,700	NA	18	64	26	0.11 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.75 I	NA	83	160	2,500
	AOC1-SB 52(4-6')		4-6	13	3,500	NA	21	49	14	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	0.90 I	NA	100	110	1,100
	AOC1-SB 52(6-8')		6-8	1.1	130	NA	26	47	2.8	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.54 U	0.27 U	NA	160	74	100
	AOC1-SB 52(10-12')		10-12	5.2	420	NA	15	25	2.2	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	0.58 U	0.29 U	NA	79	47	110
	AOC1-SB 52(13-15')		13-15	3.6	360	NA	1.0 I	2.3	0.61 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.60 U	0.30 U	NA	8.1	6.8	71
	AOC1-SB 52(23-25')		23-25	1.2	140	NA	0.56 U	1.6	1.8	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	2.7	5.8	85
AOC 1-SB 53	AOC1-SB 52(33-35')		33-35	0.11 U	0.69 I	NA	0.42 U	0.51 I	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	1.0	0.75	1.6
	AOC1-SB 53(0.0-5')	6/22/2020	0-0.5	3.8	44,000	NA	0.81 I	3.6	0.55 I	0.46	0.27 I	0.15 I	0.15 I	0.11 U	0.11 U	0.21 U	8.1 I	2.1 U	NA	1.5 I	4.0 I	51
	AOC1-SB 53(0.5-2')		0.5-2	250	11,000	NA	440	940	270	1.3 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.53 U	0.26 U	NA	2,000	1,900	7,500
	AOC1-SB 53(2-4')		2-4	24	6,500	NA	94	96	37	0.16 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	330	340	990
	AOC1-SB 53(4-6')		4-6	24	3,900	NA	94	230	25	0.13 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.43 U	0.22 U	NA	790	650	1,500
	AOC1-SB 53(6-8')		6-8	14	4,000	NA	48	130	13	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	530	280	990
	AOC1-SB 53(10-12')		10-12	8.8	9,900	NA	17 I	33	4.8	0.13 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	150	120	380
	AOC1-SB 53(13-15')		13-15	3.0	900	NA	0.46 I	3.1	0.49 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	5.6	10	57
	AOC1-SB 53(23-25')		23-25	0.23 I	13	NA	6.4	6.8	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	0.23 U	NA	30	11	19
AOC 1-SB 54	AOC1-SB 53(33-35')		33-35	0.11 U	8.5	NA	0.43 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U	1.4
	AOC1-SB 54(0.0-5')	6/22/2020	0-0.5	0.61	3,100	NA	0.46 U	0.73 I	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	0.23 U	NA	1.9	2.5	17
	AOC1-SB 54(0.5-2')		0.5-2	1.6	1,500	NA	1.2 I	2.0	0.28 U	0.14 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.57 U	0.28 U	NA	4.8	6.9	74
	AOC1-SB 54(2-4')		2-4	2.8	120	NA	3.0	7.0	1.1 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.63 U	0.32 U	NA	28	27	160
	AOC1-SB 54 (4-6')	6/23/2020	4-6	0.15 U	24	NA	3.4	7.1	0.65 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.61 U	0.30 U	NA	31	20	37
	AOC1-SB 54(6-8')		6-8	0.11 U	0.22 U	NA	1.4 I	2.0	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	12	1.2	0.43 I
	AOC1-SB 54(10-12')		10-12	0.30 I	310	NA	1.3 I	0.63 I	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	5.4	2.3	13
	AOC1-SB 54(13-15')		13-15	0.11 U	0.21 U	NA	0.42 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	0.48	0.11 U	0.11 U
	AOC1-SB 54(23-25')		23-25	0.11 U	0.21 U	NA	0.43 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U	0.

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 49	AOC1-SB 49(0-0.5')	6/22/2020	0-0.5	0.52	2.0	5.4	NA	NA	NA	0.19 I	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 49(0.5-2')		0.5-2	0.22 I	6.4	3.6	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 49(2-4')		2-4	0.57	1.0	0.24 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 49(4-6')	6/24/2020	4-6	0.98	0.13 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 49(6-8')		6-8	2.3	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 49(10-12')		10-12	3.4	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 49(13-15')		13-15	6.1	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 49(23-25')		23-25	7.9	0.15 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 50	AOC1-SB 50(0.0.5')	6/22/2020	0-0.5	2.5	0.36 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 50(0.5-2')		0.5-2	0.30 I	1.3	0.60	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 50(2-4')		2-4	2.0	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 50(4-6')	6/23/2020	4-6	0.42 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 50(6-8')		6-8	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 50(10-12')		10-12	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 50(13-15')		13-15	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 50(23-25')		23-25	0.39 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 51	AOC1-SB 51(0-0.5')	6/22/2020	0-0.5	0.35 I	6.4	5.8	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 51(0.5-2')		0.5-2	0.15 I	1.3	0.18 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 51(2-4')		2-4	2.1	0.14 I	0.12 U	NA	NA	NA	0.12 UJ	0.12 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB51 (4-6')	6/23/2020	4-6	3.8	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 51(6-8')		6-8	4.7	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 51(10-12')		10-12	1.9	0.62	1.1	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 51(13-15')		13-15	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 51(23-25')		23-25	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 52	AOC1-SB 51(33-35')		33-35	5.6	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(0.0.5')	6/22/2020	0-0.5	510	29	6.3	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(0.5-2')		0.5-2	35	0.29 I	0.17 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(2-4')		2-4	45	6.5	4.0	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(4-6')		4-6	47	5.4	4.1	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(6-8')		6-8	1.6	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(10-12')		10-12	8.1	0.28 I	0.23 I	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(13-15')		13-15	6.7	0.21 I	0.16 I	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 52(23-25')		23-25	1.7	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 53	AOC1-SB 52(33-35')		33-35	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(0.0.5')	6/22/2020	0-0.5	25	74	40	NA	NA	NA	1.1 U	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(0.5-2')		0.5-2	240	14	8.2	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(2-4')		2-4	49	27	15	NA	NA	NA	0.24 U	0.24 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(4-6')		4-6	28	14	12	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(6-8')		6-8	33	0.17 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(10-12')		10-12	25	13	12	NA	NA	NA	0.11 U	1.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(13-15')		13-15	5.7	0.14 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 53(23-25')		23-25	0.43 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 54	AOC1-SB 53(33-35')	6/23/2020	33-35	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(0.0.5')		0-0.5	2.3	13	6.4	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(0.5-2')		0.5-2	4.7	0.41 I	0.21 I	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(2-4')		2-4	4.2	0.16 U	0.16 U	NA	NA	NA	0.16 UJ	0.16 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54 (4-6')		4-6	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(6-8')		6-8	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(10-12')		10-12	0.77	1.1	0.81	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(13-15')		13-15	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(23-25')		23-25	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 54(33-35')		33-35	5.6	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
AOC 1-SB 55	AOC1-SB 55(0-0.5')	6/22/2020	0-0.5	0.55	39	NA	1.1 I	1.1	0.25 I	0.18 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	7.2	6.2	18	
	AOC1-SB 55(0.5-2')	6/23/2020	0.5-2	0.20 I	5.0	NA	0.72 I	0.73 I	0.30 I	0.12 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	4.3	2.6	6.3	
	AOC1-SB 55(2-4')		2-4	0.27 I	7.7	NA	0.76 I	1.1	0.33 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.53 U	0.26 U	NA	14	6.9	12		
AOC1-SB 56(0-0.5')	6/23/2020		0-0.5	0.29 I	14	NA	0.46 U	0.38 I	0.23 U	0.19 I	0.12 U	0.12 U	0.12 U	1.2	0.12 U	0.23 U	0.46 U	0.23 U	NA	1.0	1.3	2.9	
AOC1-SB 56(0.5-2')		0.5-2	0.12 I	4.8	NA	0.41 U	0.21 U	0.21 U	0.10 U	0.10 U	0.10 U	0.10 U	0.14 I	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.57	0.99	3.7		
AOC1-SB 56(2-4')		2-4	0.12 U	1.3	NA	0.47 U	0.26 I	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	1.5	1.3	1.4		
AOC 1-SB-56	AOC1-SB 56(4-6')	6/24/2020	4-6	0.12 U	0.23 U	NA	0.47 U	0.23 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	3.7	1.3	1.5	
	AOC1-SB 56(6-8')		6-8	0.11 U	0.23 U	NA	0.46 U	0.23 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	2.9	0.94	1.2	
	AOC1-SB 56(10-12')		10-12	0.11 U	0.50 I	NA	0.44 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	1.2	0.58	0.91	
	AOC1-SB 56(13-15')	6/24/2020	13-15	0.11 U	0.22 U	NA	0.44 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	1.2	0.44 I	0.69	
	AOC1-SB 56(23-25')		23-25	0.14 U	0.28 U	NA	0.56 U	0.28 U	0.28 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	0.23 I	0.14 U	0.14 U	
	AOC1-SB 56(33-35')		6/25/2020	33-35	0.12 U	9.1	NA	0.47 U	0.24 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	1.8	0.57	0.77
	AOC1-SB 57(0-0.5')	6/22/2020	0-0.5	460	39,000	NA	23	64	8.4	1.9	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	220	0.25 U	NA	130	220	1,400	
AOC1-SB 57(0.5-2')	0.5-2		150	7,300	NA	9.9	34	3.4	0.49	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	42	69	630		
AOC1-SB 57(2-4')	2-4		14	6,500	NA	2.5	10	1.2	0.19 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.53 U	0.27 U	NA	7.2 I	13	150		
AOC 1-SB 58	AOC1-SB 58(0-0.5')	6/22/2020	0-0.5	0.28 I	5.8	NA	0.85 I	0.96	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.42 I	0.38 I	1.5	
	AOC1-SB 58(0.5-2')		0.5-2	0.22 I	3.5	NA	0.88 I	0.79 I	0.27 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.55 U	0.27 U	NA	3.6	1.7	4.6	
	AOC1-SB 58(2-4')		2-4	0.14 U	0.41 I	NA	0.58 U	0.32 I	0.29 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	0.58 U	0.29 U	NA	4.0	1.8	4.7	
AOC 1-SB 59	AOC1-SB 59(0-0.5')	6/22/2020	0-0.5	0.40 I	41	NA	0.81 I	0.69 I	0.24 I	0.14 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.98	1.3	5.0	
	AOC1-SB 59(0.5-2')		0.5-2	0.78	130	NA	1.4 I	1.3	0.30 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.54 U	0.27 U	NA	1.2	1.1	9.7	
	AOC1-SB 59(2-4')		2-4	0.16 U	6.7	NA	0.84 I	1.9	0.42 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.63 U	0.32 U	NA	4.3	5.0	37	
AOC3-SB 1	AOC3-SB1 (0-1')	3/11/2019	0-1	0.62	160	NA	NA	0.63	0.20 I	1.2	0.88	1.7	0.34	0.43	0.080 I	NA	NA	NA	NA	0.11 I	NA	5.7	
	AOC3-SB1 (1-2')		1-2	0.84	140	NA	NA	0.77	0.25 I	2.8	0.79	0.43	0.085 U	0.065 U	0.069 U	NA	NA	NA	NA	0.14 I	NA	5.3	
	AOC3-SB1 (2-4')		2-4	0.56	350	NA	NA	0.46	0.13 I	2.1	0.61	0.078 I	0.092 U	0.070 U	0.074 U	NA	NA	NA	NA	0.076 I	NA	5.9	
	AOC3-SB1 (6-8')		6-8	340	2,400	NA	NA	680	150	5.0 U	3.1 U	5.0 U	9.3 U	7.1 U	7.5 U	NA	NA	NA	NA	1,000	NA	3,300 L	
	AOC3-SB1 (10-12')	5/2/2019	10-12	1.3	110	NA	NA	2.8	0.48	0.47	0.032 U	0.052 U	0.096 U	0.073 U	0.077 U	NA	NA	NA	NA	3.1	NA	29	
	AOC3-SB1 (14-16')		14-16	0.96	83	NA	NA	0.96	0.26 I	0.46	0.045 I	0.048 U	0.090 U	0.068 U	0.073 U	NA	NA	NA	NA	0.60	NA	17	
AOC5-SB 1	AOC5-SB1 (0-2')	5/1/2019	0-2	0.56	2.1	NA	NA	0.29	0.48	0.56	0.087 I	0.10 I	0.077 U	0.059 U	0.062 U	NA	NA	NA	NA	0.029 U	NA	0.093 I	
	AOC5-SB1 (2-4')		2-4	0.50	2.1	NA	NA	0.30	0.32	0.27	0.029 I	0.043 U	0.081 U	0.062 U	0.065 U	NA	NA	NA	NA	0.030 U	NA	0.45	
SBMW-A	SBMW-A (0-2')	5/1/2019	0-2	0.11 U	0.26 U	NA	NA	0.054 U	0.037 U	0.046 U	0.028 U	0.046 U	0.086 U	0.066 U	0.070 U	NA	NA	NA	NA	0.032 U	NA	0.040 U	
	SBMW-A (2-4')		2-4	0.11 U	0.25 U	NA	NA	0.052 U	0.036 U	0.044 U	0.027 U	0.044 U	0.083 U	0.063 U	0.067 U	NA	NA	NA	NA	0.031 U	NA	0.038 U	
SBMW-B	SBMW-B (0-2')	5/1/2019	0-2	0.10 U	0.26 I	NA	NA	0.051 U	0.035 U	0.043 U	0.027 U	0.043 U	0.081 U	0.062 U	0.065 U	NA	NA	NA	NA	0.030 U	NA	0.037 U	
	SBMW-B (2-4')		2-4	0.11 U	0.26 U	NA	NA	0.055 U	0.038 U	0.047 U	0.029 U	0.047 U	0.088 U	0.067 U	0.071 U	NA	NA	NA	NA	0.033 U	NA	0.041 U	
SBMW-C	SBMW-C (0-2')	5/1/2019	0-2	0.32	6.3	NA	NA	1.4	0.20 I	0.043 U	0.026 U	0.043 U	0.080 U	0.061 U	0.065 U	NA	NA	NA	NA	0.29	NA	14	
	SBMW-C (2-4')		2-4	0.20 I	2.1	NA	NA	2.1	0.12 I	0.046 U	0.028 U	0.046 U	0.086 U	0.065 U	0.069 U	NA	NA	NA	NA	1.1	NA	0.82	
SS-1	SS-1 (0-1')	11/13/2018	0-1	140	17,000 L	4.4	5.2	31	6.4	8.9	14	2.7	3.1	0.58 U	0.62 U	NA	NA	NA	NA				

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 55	AOC1-SB 55(0-0.5')	6/22/2020	0-0.5	0.68	0.16 I	0.14 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 55(0.5-2')		0.5-2	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 55(2-4')	6/23/2020	2-4	0.15 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB-56	AOC1-SB 56(0-0.5')	6/23/2020	0-0.5	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(0.5-2')		0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(2-4')		2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(4-6')	6/24/2020	4-6	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(6-8')		6-8	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(10-12')		10-12	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(13-15')		13-15	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(23-25')		23-25	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 56(33-35')	6/25/2020	33-35	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 57	AOC1-SB 57(0-0.5')	6/22/2020	0-0.5	1,100	37	41	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 57(0.5-2')		0.5-2	530	5.9	6.7	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 57(2-4')		2-4	55	4.1	4.1	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 58	AOC1-SB 58(0-0.5')	6/22/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 58(0.5-2')		0.5-2	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 58(2-4')		2-4	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC 1-SB 59	AOC1-SB 59(0-0.5')	6/22/2020	0-0.5	0.24 I	0.19 I	0.12 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 59(0.5-2')		0.5-2	0.95	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC1-SB 59(2-4')		2-4	0.85	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC3-SB 1	AOC3-SB1 (0-1')	3/11/2019	0-1	NA	NA	NA	NA	NA	NA	0.44 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC3-SB1 (1-2')		1-2	NA	NA	NA	NA	NA	NA	0.47 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC3-SB1 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.51 U	0.53 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC3-SB1 (6-8')		6-8	NA	NA	NA	NA	NA	NA	52 U	54 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC3-SB1 (10-12')	5/2/2019	10-12	NA	NA	NA	NA	NA	NA	0.53 U	0.56 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC3-SB1 (14-16')		14-16	NA	NA	NA	NA	NA	NA	0.50 U	0.52 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
AOC5-SB 1	AOC5-SB1 (0-2')	5/1/2019	0-2	NA	NA	NA	NA	NA	NA	0.43 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AOC5-SB1 (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.45 U	0.47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SBMW-A	SBMW-A (0-2')	5/1/2019	0-2	NA	NA	NA	NA	NA	NA	0.48 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SBMW-A (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.46 U	0.48 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SBMW-B	SBMW-B (0-2')	5/1/2019	0-2	NA	NA	NA	NA	NA	NA	0.45 U	0.47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SBMW-B (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.49 U	0.51 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SBMW-C	SBMW-C (0-2')	5/1/2019	0-2	NA	NA	NA	NA	NA	NA	0.44 U	0.47 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SBMW-C (2-4')		2-4	NA	NA	NA	NA	NA	NA	0.47 U	0.50 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-1	SS-1 (0-1')	11/13/2018	0-1	160	NA	220	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-1 (1-2')	11/13/2018	1-2	210	NA	62	NA	NA	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-2	SS-2 (0-1')	11/13/2018	0-1	610	NA	95	NA	NA	72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-2 (1-2')	11/13/2018	1-2	660	NA	170	NA	NA	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-3	SS-3 (0-1')	11/13/2018	0-1	0.13 I	NA	0.68	NA	NA	0.83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-3 (1-2')	11/13/2018	1-2	0.39	NA	0.04 U	NA	NA	0.084 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-3 (3-4')	11/13/2018	3-4	0.13 I	NA	0.043 U	NA	NA	0.091 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-4	SS-4 (0-1')	11/13/2018	0-1	0.075 I	NA	0.44	NA	NA	0.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-4 (1-2')	11/13/2018	1-2	0.12 I	NA	0.042 U	NA	NA	0.10 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-5	SS-5 (0-1')	11/13/2018	0-1	0.34	NA	1.1	NA	NA	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-5 (1-2')	11/13/2018	1-2	0.12 I	NA	0.099 I	NA	NA	7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-5 (3-4')	11/13/2018	3-4	0.58	NA	0.25	NA	NA	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-6	SS-6 (0-1')	11/13/2018	0-1	0.38	NA	1.3	NA	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-6 (1-2')	11/13/2018	1-2	0.47	NA	0.096 I	NA	NA	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-7	SS-7 (0-1')	11/13/2018	0-1	0.23	NA	7.3	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-7 (1-2')	11/13/2018	1-2	0.21	NA	1.5	NA	NA	9.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-8	SS-8 (0-1')	11/13/2018	0-1	0.045 U	NA	0.56	NA	NA	0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-8 (1-2')	11/13/2018	1-2	0.04 U	NA	0.42	NA	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDnA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPnS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-9	SS-9 (0-1')	11/13/2018	0-1	1.7	21	0.56	1.2	0.92	1.2	3.3	1.1	0.58	0.16 I	0.077 I	0.057 U	NA	NA	NA	NA	0.049 I	NA	0.70
SS-10	SS-10 (0-1')	11/13/2018	0-1	7.7	16	1.5	5.0	4.2	5.6	2.9	0.77	0.37	0.20 I	0.053 U	0.056 U	NA	NA	NA	NA	0.041 I	NA	2.5
SS-11	SS-11 (0-1')	11/13/2018	0-1	4.2	41	1.5	4.1	3.1	3.4	5.5	4.6	1.5	0.61	0.18 I	0.17 I	NA	NA	NA	NA	0.15 I	NA	8.3
SS-12	SS-12 (0-1')	11/13/2018	0-1	1.3	18	0.52	1.5	1.4	1.2	0.56	0.69	1.2	0.87	0.058 U	0.061 U	NA	NA	NA	NA	0.44	NA	8.1
	SS-12 (1-2')	11/13/2018	1-2	0.85	14	0.24	0.57	0.78	0.59	0.32	0.74	1.7	0.48	0.056 U	0.059 U	NA	NA	NA	NA	0.27	NA	5.3
SS-13	SS-13 (0-1')	11/13/2018	0-1	0.14 I	3.3	0.029 U	0.081 U	0.10 I	0.03 U	0.18 I	0.36	0.21	0.07 U	0.056 I	0.057 U	NA	NA	NA	NA	0.026 U	NA	1.0
	SS-13 (1-2')	11/13/2018	1-2	0.11 I	4.0	0.029 U	0.081 U	0.086 I	0.03 U	0.25	0.18 I	0.038 U	0.07 U	0.053 U	0.057 U	NA	NA	NA	NA	0.026 U	NA	1.4
SS-14	SS-14 (0-1')	11/13/2018	0-1	0.11 I	4.9	0.032 I	0.081 U	0.17 I	0.043 I	0.08 I	0.13 I	0.083 I	0.07 U	0.053 U	0.057 U	NA	NA	NA	NA	0.026 U	NA	1.4
SS-15	SS-15 (0-1')	11/13/2018	0-1	1.8	130	0.29	0.68	2.2	0.78	2.5	2.3	2.3	0.27	0.47	0.056 I	NA	NA	NA	NA	0.29	NA	19
	SS-15 (1-2')	11/13/2018	1-2	0.75	87	0.26	0.42	0.70	0.23 I	0.85	0.23 I	0.073 I	0.081 U	0.062 U	0.065 U	NA	NA	NA	NA	0.063 I	NA	6.8
SS 16	SS 16 (0-1')	11/13/2018	0-1	0.31	6.7	0.09 I	0.17 I	0.46	0.10 I	0.18 I	0.23	0.79	0.16 I	0.13 I	0.057 U	NA	NA	NA	NA	0.062 I	NA	1.9
	SS-16 (1-2')	11/13/2018	1-2	0.32	120	0.088 I	0.20 I	0.50	0.13 I	0.75	0.67	0.13 I	0.072 U	0.055 U	0.058 U	NA	NA	NA	NA	0.16 I	NA	5.5
SS-17	SS-17 (0-1')	11/13/2018	0-1	0.41	76	0.074 I	0.22	0.33	0.19 I	0.84	0.97	0.67	0.071 U	0.11 I	0.057 U	NA	NA	NA	NA	0.033 I	NA	3.6
	SS-17 (1-2')	11/13/2018	1-2	0.34	61	0.18 I	0.25	0.26	0.11 I	0.47	0.18 I	0.10 I	0.081 U	0.062 U	0.065 U	NA	NA	NA	NA	0.03 U	NA	1.6
SS-18	SS-18 (0-1')	11/13/2018	0-1	1.6	22	0.53	1.3	1.8	1.4	1.2	3.0	19	1.2	7.1	0.21	NA	NA	NA	NA	0.063 I	NA	8.8
SS-19	SS-19 (0-1')	11/13/2018	0-1	0.67	13	0.16 I	0.29	0.58	0.49	0.66	2.3	9.0	0.49	3.1	0.082 I	NA	NA	NA	NA	0.031 I	NA	3.4
SS-20	SS-20 (0-1')	11/13/2018	0-1	1.1	9.7	0.36	0.63	1.6	1.1	0.32	1.2	6.2	1.4	5.2	0.22	NA	NA	NA	NA	0.12 I	NA	6.4
	SS-20 (1-2')	11/13/2018	1-2	1.1	15	0.25	0.52	1.3	0.67	0.34	1.9	12	0.91	0.77	0.12 I	NA	NA	NA	NA	0.088 I	NA	5.3
SS-21	SS-21(0-1')	11/13/2018	0-1	0.37	8.9	0.10 I	0.20 I	0.80	0.12 I	0.27	0.45	2.7	0.21	0.50	0.057 U	NA	NA	NA	NA	0.083 I	NA	2.6
SS-22	SS-22 (0-1')	11/13/2018	0-1	0.70	35	0.099 I	0.22	0.41	0.42	0.40	0.26	0.23	0.074 U	0.056 U	0.059 U	NA	NA	NA	NA	0.27	NA	8.6
SS-23	SS-23 (0-1')	11/13/2018	0-1	0.55	7.7	1.4	2.1	1.1	0.39	0.75	0.30	11	0.23	4.9	0.083 I	NA	NA	NA	NA	0.70	NA	3.3
SS-24	SS-24 (0-1')	11/13/2018	0-1	9.2	260	1.6	4.0	3.8	2.4	1.3	0.97	2.4	0.56	2.0	0.20 I	NA	NA	NA	NA	0.48	NA	17
	SS-24 (1-2')	11/13/2018	1-2	7.0	51	0.61	2.1	2.5	1.7	0.82	0.44	0.54	0.095 I	0.23	0.06 U	NA	NA	NA	NA	0.29	NA	9.2
SS-25	SS-25 (0-1')	11/13/2018	0-1	9.1	240	1.2	2.4	3.7	1.8	1.2	1.0	1.5 J	0.70	1.9	0.24	NA	NA	NA	NA	0.63	NA	13
SS-26	SS-26 (0-1')	11/13/2018	0-1	5.5	140	0.69	1.2	1.7	1.3	0.98	1.1	3.3	1.4	3.5	0.28	NA	NA	NA	NA	0.63	NA	5.1
	SS-26 (1-2')	11/13/2018	1-2	1.3	46	0.28	0.39	0.49	0.31	0.26	0.25	0.88	0.29	0.66	0.077 I	NA	NA	NA	NA	0.16 I	NA	1.4
SS-27	SS-27 (0-1')	11/13/2018	0-1	4.4	44	0.72	1.2	1.7	1.9	1.2	0.84	4.9	2.6	5.4	0.27	NA	NA	NA	NA	0.52	NA	5.8
	SS-27 (1-2')	11/13/2018	1-2	1.6	15	0.15 I	0.29	0.46	0.44	0.24	0.21	1.1	0.28	0.57	0.055 U	NA	NA	NA	NA	0.06 I	NA	1.1
SS-28	SS-28 (0-1')	11/13/2018	0-1	1.9	66	1.2	1.6	1.9	1.1	1.2	0.50	3.4	0.43	1.1	0.12 I	NA	NA	NA	NA	1.1	NA	12
	SS-28 (1-2')	11/13/2018	1-2	2.1	82	0.96	1.6	1.5	1.0	1.1	0.44	3.1	0.25	0.62	0.067 I	NA	NA	NA	NA	0.78	NA	9.3
SS-29	SS-29 (0-1')	11/13/2018	0-1	0.83	4.7	0.66	1.3	0.86	1.1	1.4	1.3	0.24	0.11 I	0.054 U	0.066 I	NA	NA	NA	NA	0.026 U	NA	0.16 I
SS-30	SS-30 (0.1')	11/13/2018	0.1	0.30	0.76	0.30	0.70	0.49	0.43	1.2	0.21	0.063 I	0.068 U	0.052 U	0.055 U	NA	NA	NA	NA	0.025 U	NA	0.031 U
SS-31	SS-31 (0-1')	11/13/2018	0-1	0.71	0.75	0.77	1.9	0.81	0.94	0.59	0.38	0.17 I	0.068 I	0.052 U	0.055 U	NA	NA	NA	NA	0.026 U	NA	0.08 I
	SS-31 (1-2')	11/13/2018	1-2	0.76	1.7	0.53	0.99	0.38	0.57	1.8	0.12 I	0.042 I	0.069 U	0.052 U	0.055 U	NA	NA	NA	NA	0.026 U	NA	0.097 I
SS-32	SS-32 (0-1')	11/13/2018	0-1	0.85	9.1	0.65	1.3	0.97	0.79	2.6	0.36	0.11 I	0.07 U	0.053 U	0.056 U	NA	NA	NA	NA	0.026 U	NA	0.058 I
SS-33	SS-33(0-1')	11/13/2018	0-1	0.29	43	0.31	0.33	0.32	0.23	0.53	0.086 I	0.046 I	0.072 U	0.055 U	0.058 U	NA	NA	NA	NA	0.036 I	NA	1.5
SS-34	SS-34 (0-1')	11/13/2018	0-1	5.9	25	1.6	2.4	2.5	4.7	8.0	1.3	0.35	0.23	0.069 I	0.081 I	NA	NA	NA	NA	0.027 U	NA	0.47
	SS-34 (1-2')	11/13/2018	1-2	9.7	25	2.6	4.8	1.7	3.8	4.8	0.17 I	0.08 I	0.073 U	0.055 U	0.059 U	NA	NA	NA	NA	0.042 I	NA	0.80
SS-35	SS-35 (0-1')	11/13/2018	0-1	3.3	72	1.2	1.9	1.1	2.0	6.6	0.48	0.088 I	0.072 U	0.055 U	0.058 U	NA	NA	NA	NA	0.054 I	NA	2.4
SS-36	SS-36 (0-1')	11/13/2018	0-1	21	300	1.9	3.8	3.0	6.0	10	1.9	0.54	0.59	0.17 I	0.18 I	NA	NA	NA	NA	0.12 I	NA	8.6
SS-37	SS-37 (0-1')	11/13/2018	0-1	4.9	40	0.80	1.4	1.4	2.6	5.1	2.6	0.61	0.17 I	0.052 U	0.055 U	NA	NA	NA	NA	0.12 I	NA	4.9
SB-C-1	SB-C-1 (0-0.5')	4/8/2020	0-0.5	1.4	13	NA	0.59 I	0.23 I	0.95	1.2	3.4	4.0	2.0	1.8	0.39	0.19 U	0.39 U	14	NA	0.097 U	0.097 U	0.93
	SB-C-1 (0.5-2')	4/8/2020	0.5-2	2.7	39	NA	0.36 U	0.23 I	0.94	4.9	1.3	0.53	0.089 U	0.089 U	0.089 U	0.18 U	0.36 U	38	NA	0.089 U	0.089 U	2.8
	SB-C-1 (2-4')	4/8/2020	2-4	2.4	56	NA	0.38 U	0.19 U	0.94	1.8	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.19 U	0.38 U	4.3	NA	0.094 U	0.094 U	2.5
SB-201	SB-201 (0-0.5')	4/8/2020	0-0.5	0.88	20	NA	0.56 I	0.74 I	0.50 I	0.53	0.22 I	1.2	0.34 I	1.2	0.11 U	0.21 U	0.42 U	0.40 I	NA	0.21 I	0.21 I	2.8
	SB-201 (0.5-2')	4/8/2020	0.5-2	1.4	100	NA	0.65 U	1.2 I	0.60 I	0.75	0.26 I	1.5	0.16 U	0.21 I	0.16 U	0.33 U	0.65 U	0.50 I	NA	0.40 I	0.54 I	6.4
	SB-201 (2-4')	4/8/2020	2-4	3.9	370	NA	1.2 I	1.4	0.94 I	1.2	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.35 U	0.70 U	0.35 U	NA	1.0	1.4	26
	SB-201 (4-6')	9/15/2020	4-6	5.1	47	NA	3.7	6.2	1.6	0.33 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.31 U	0.63 U	0.31 U	NA	6.0	6.7	88
SB-202	SB-201-(6-8')	9/15/2020	6-8	2.7	63	NA	0.51 U	0.62 I	0.80 I	0.58	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.51 U	0.37 I	NA	0.55	1.1	34
	SB-202 (0-0.5')	4/8/2020	0-0.5	3.0	55	NA	2.0	1.7	1.7	1.8	0.57	2.8	1.2	3.2	0.20 I	0.24 U	0.49 U	2.2	NA	0.34 I	0.42 I	6.2
	SB-202 (0.5-2')	4/8/2020	0.5-2	0.96	29	NA	0.70 I	0.62 I	0.52 I	0.50	0.18 I	0.49	0.18 I	0.43	0.10 U	0.20 U	0.40 U	0.46 I	NA	0.10 U	0.14 I	2.6
	SB-202 (2-4')	4/8/2020	2-4	0.55	20	NA	0.45 U	0.50 I	0.27 I	0.31 I	0.11 U	0.31 I	0.11 U	0.18 I	0.11 U	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.11 I	2.4

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SS-9	SS-9 (0-1')	11/13/2018	0-1	0.083 I	NA	0.041 U	NA	NA	0.087 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-10	SS-10 (0-1')	11/13/2018	0-1	0.057 I	NA	0.61	NA	NA	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-11	SS-11 (0-1')	11/13/2018	0-1	0.41	NA	0.45	NA	NA	0.57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-12	SS-12 (0-1')	11/13/2018	0-1	0.42	NA	0.67	NA	NA	7.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-12 (1-2')	11/13/2018	1-2	0.38	NA	1.6	NA	NA	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-13	SS-13 (0-1')	11/13/2018	0-1	0.038 I	NA	0.17 I	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-13 (1-2')	11/13/2018	1-2	0.037 U	NA	0.041 U	NA	NA	0.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-14	SS-14 (0-1')	11/13/2018	0-1	0.037 U	NA	0.19 I	NA	NA	0.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-15	SS-15 (0-1')	11/13/2018	0-1	0.70	NA	0.86	NA	NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-15 (1-2')	11/13/2018	1-2	0.26	NA	0.047 U	NA	NA	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS 16	SS 16 (0-1')	11/13/2018	0-1	0.14 I	NA	1.7	NA	NA	8.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-16 (1-2')	11/13/2018	1-2	0.34	NA	0.27	NA	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-17	SS-17 (0-1')	11/13/2018	0-1	0.21	NA	0.46	NA	NA	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-17 (1-2')	11/13/2018	1-2	0.14 I	NA	0.06 I	NA	NA	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-18	SS-18 (0-1')	11/13/2018	0-1	0.17 I	NA	1.6	NA	NA	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-19	SS-19 (0-1')	11/13/2018	0-1	0.10 I	NA	1.3	NA	NA	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-20	SS-20 (0-1')	11/13/2018	0-1	0.31	NA	3.3	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-20 (1-2')	11/13/2018	1-2	0.30	NA	2.5	NA	NA	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-21	SS-21(0-1')	11/13/2018	0-1	0.18 I	NA	2.0	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-22	SS-22 (0-1')	11/13/2018	0-1	0.38	NA	0.30	NA	NA	0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-23	SS-23 (0-1')	11/13/2018	0-1	0.097 I	NA	0.55	NA	NA	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-24	SS-24 (0-1')	11/13/2018	0-1	1.6	NA	1.5	NA	NA	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-24 (1-2')	11/13/2018	1-2	0.99	NA	0.36	NA	NA	7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-25	SS-25 (0-1')	11/13/2018	0-1	1.8 J	NA	2.1 J	NA	NA	140 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-26	SS-26 (0-1')	11/13/2018	0-1	0.36	NA	4.1	NA	NA	370	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-26 (1-2')	11/13/2018	1-2	0.075 I	NA	0.88	NA	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-27	SS-27 (0-1')	11/13/2018	0-1	0.24	NA	10	NA	NA	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-27 (1-2')	11/13/2018	1-2	0.053 I	NA	1.3	NA	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-28	SS-28 (0-1')	11/13/2018	0-1	0.51	NA	3.2	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-28 (1-2')	11/13/2018	1-2	0.48	NA	2.2	NA	NA	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-29	SS-29 (0-1')	11/13/2018	0-1	0.037 U	NA	0.041 U	NA	NA	0.086 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-30	SS-30 (0.1')	11/13/2018	0.1	0.036 U	NA	0.04 U	NA	NA	0.083 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-31	SS-31 (0-1')	11/13/2018	0-1	0.036 U	NA	0.04 U	NA	NA	0.084 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-31 (1-2')	11/13/2018	1-2	0.036 U	NA	0.04 U	NA	NA	0.084 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-32	SS-32 (0-1')	11/13/2018	0-1	0.036 U	NA	0.04 U	NA	NA	0.085 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-33	SS-33(0-1')	11/13/2018	0-1	0.074 I	NA	0.064 I	NA	NA	0.089 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-34	SS-34 (0-1')	11/13/2018	0-1	0.04 I	NA	0.042 U	NA	NA	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SS-34 (1-2')	11/13/2018	1-2	0.32	NA	0.042 U	NA	NA	0.089 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-35	SS-35 (0-1')	11/13/2018	0-1	0.18 I	NA	0.042 U	NA	NA	0.18 I	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-36	SS-36 (0-1')	11/13/2018	0-1	2.9	NA	0.11 I	NA	NA	0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SS-37	SS-37 (0-1')	11/13/2018	0-1	0.21	NA	0.063 I	NA	NA	0.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-C-1	SB-C-1 (0-0.5')	4/8/2020	0-0.5	0.097 U	0.70	0.80	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA
	SB-C-1 (0.5-2')	4/8/2020	0.5-2	0.60	0.64	0.089 U	NA	NA	NA	0.089 U	0.089 U	NA	NA	NA	0.36 U	NA	NA	NA	NA	NA
	SB-C-1 (2-4')	4/8/2020	2-4	0.31 I	0.094 U	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.38 U	NA	NA	NA	NA	NA
SB-201	SB-201 (0-0.5')	4/8/2020	0-0.5	0.19 I	0.23 I	1.1	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-201 (0.5-2')	4/8/2020	0.5-2	0.60 I	0.88	1.6	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
	SB-201 (2-4')	4/8/2020	2-4	1.8	0.18 U	0.18 U	NA	NA	NA	0.18 U	0.18 U	NA	NA	NA	0.18 U	NA	NA	NA	NA	NA
	SB-201 (4-6')	9/15/2020	4-6	2.2	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
SB-202	SB-201-(6-8')	9/15/2020	6-8	1.1	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-202 (0-0.5')	4/8/2020	0-0.5	0.40 I	0.68	5.9	NA	NA	NA	0.15 I	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-202 (0.5-2')	4/8/2020	0.5-2	0.23 I	0.18 I	0.75	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-202 (2-4')	4/8/2020	2-4	0.15 I	0.25 I	0.32 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-203	SB-203 (0-0.5')	4/8/2020	0-0.5	0.43	29	NA	0.48 I	0.76 I	0.22 I	0.61	0.33 I	1.4	0.10 U	0.17 I	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.17 I	0.18 I	3.1	
	SB-203 (0.5-2')	4/8/2020	0.5-2	0.14 I	18	NA	0.38 U	0.42 I	0.19 U	0.24 I	0.095 U	0.17 I	0.095 U	0.095 U	0.095 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U	1.7	
	SB-203 (2-4')	4/8/2020	2-4	0.16 I	14	NA	0.42 U	0.53 I	0.21 U	0.20 I	0.11 U	0.19 I	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	0.11 U	0.11 U	1.9	
SB-204	SB-204 (0-0.5')	4/8/2020	0-0.5	0.41 I	10	NA	0.90 I	1.1 I	0.28 U	0.44 I	0.17 I	0.35 I	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	0.37 I	0.28 I	1.9	
	SB-204 (0.5-2')	4/8/2020	0.5-2	0.74	37	NA	0.87 I	1.1 I	0.28 U	0.41 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	0.94	0.52 I	3.2	
	SB-204 (2-4')	4/8/2020	2-4	2.2	110	NA	2.8	4.4	1.3	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	0.61 U	0.31 U	NA	21	14	84	
SB-205	SB-205 (0-0.5')	4/8/2020	0-0.5	0.13 I	2.9	NA	0.41 U	0.46 I	0.20 U	0.13 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	0.47	
	SB-205 (0.5-2')	4/8/2020	0.5-2	0.096 U	2.1	NA	0.38 U	0.46 I	0.19 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.19 U	0.38 U	0.19 U	NA	0.096 U	0.096 U	0.16 I	
	SB-205 (2-4')	4/8/2020	2-4	0.092 U	1.8	NA	0.37 U	0.42 I	0.18 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.18 U	0.37 U	0.18 U	NA	0.092 U	0.092 U	0.092 U	
SB-206	SB-206 (0-0.5')	4/8/2020	0-0.5	2.2	63	NA	0.77 I	0.94	0.62 I	0.88	0.54	0.71	0.29 I	1.4	0.13 I	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.15 I	3.7	
	SB-206 (0.5-2')	4/8/2020	0.5-2	0.68	11	NA	0.40 U	0.49 I	0.20 U	0.11 I	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U	2.2	
	SB-206 (2-4')	4/8/2020	2-4	0.90	7.3	NA	3.7	1.9	0.88 I	0.26 I	1.0	0.17 I	0.35 I	0.12 U	0.41 I	0.23 U	0.46 U	0.23 U	NA	0.30 I	0.12 U	1.2	
SB-207	SB-207 (0-0.5')	4/7/2020	0-0.5	0.18 I	5.7	NA	0.55 I	0.70 I	0.19 U	0.17 I	0.19 I	0.28 I	0.097 U	0.18 I	0.097 U	0.19 U	0.39 U	0.19 U	NA	0.22 I	0.20 I	1.6	
	SB-207 (0.5-2')	4/7/2020	0.5-2	1.3	6.2	NA	14	3.4	1.0	0.49	2.0	0.42 I	1.1	0.12 U	0.12 U	0.24 U	0.65 I	0.24 U	NA	0.12 U	0.18 I	0.82	
	SB-207 (2-4')	4/7/2020	2-4	0.11 U	13	NA	0.48 I	0.26 I	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U	1.2	
SB-208	SB-208 (0-0.5')	4/7/2020	0-0.5	3.1	260	NA	5.6	3.8	3.4	2.7	2.8	9.9	4.2	1.1	0.23 I	0.29 U	0.59 U	3.4	NA	0.68	0.61	7.0	
SB-209	SB-209 (0-0.5')	4/8/2020	0-0.5	0.14 I	7.2	NA	0.42 U	0.21 U	0.21 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U	0.48	
	SB-209 (0.5-2')	4/8/2020	0.5-2	0.096 U	2.3	NA	0.38 U	0.19 U	0.19 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.096 U	0.19 U	0.38 U	0.19 U	NA	0.096 U	0.096 U	0.18 I	
	SB-209 (2-4')	4/8/2020	2-4	0.10 U	2.0	NA	0.41 U	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	0.17 I	
SB-210	SB-210 (0-0.5')	4/8/2020	0-0.5	0.17 I	22	NA	0.41 U	0.33 I	0.21 U	0.11 I	0.10 U	0.19 I	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.12 I	0.11 I	1.7	
	SB-210 (0.5-2')	4/8/2020	0.5-2	0.11 I	31	NA	0.40 U	0.21 I	0.20 U	0.14 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U	0.52	
	SB-210 (2-4')	4/8/2020	2-4	0.12 I	21	NA	0.40 U	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U	0.34 I	
SB-211	SB-211 (0-0.5')	4/7/2020	0-0.5	0.67	10	NA	0.45 U	1.6	0.58 I	0.40 I	0.67	0.61	0.65	0.29 I	0.11 U	0.23 U	0.45 U	0.23 U	NA	0.33 I	0.13 I	1.6	
	SB-211 (0.5-2')	4/7/2020	0.5-2	0.56	140	NA	5.0	1.3	0.87 I	0.28 I	0.86	0.11 U	0.58	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.27 I	0.11 U	2.6	
	SB-211 (2-4')	4/7/2020	2-4	0.18 I	330	NA	0.45 U	0.27 I	0.23 U	0.23 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.45 U	0.23 U	NA	0.11 U	0.11 U	4.6	
	SB-211 (4-6')	9/15/2020	4-6	0.54 I	5.7	NA	1.4 I	1.8	0.53 I	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.69 I	0.32 U	NA	3.2	1.7	12	
	SB-211 (6-8')	9/15/2020	6-8	0.54 I	2.5	NA	1.5 I	3.3	0.65 I	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.33 U	0.67 U	0.33 U	NA	7.2	3.8	23	
	SB-211 (10-12')	9/15/2020	10-12	0.16 U	0.58 I	NA	0.93 I	1.5	0.33 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.33 U	0.66 U	0.33 U	NA	3.1	1.1	3.6	
	SB-211 (13-15')	9/15/2020	13-15	3.5	80	NA	3.1	7.8	2.0	0.26 I	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.36 U	1.2 I	0.36 U	NA	9.0	11	100	
	SB-211 (23-25')	9/15/2020	23-25	0.99	35	NA	0.45 U	0.44 I	0.34 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.62 I	0.23 U	NA	0.25 I	0.70	13	
	SB-211 (33-35')	9/15/2020	33-35	0.17 U	0.41 I	NA	0.68 U	0.34 U	0.34 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.68 U	0.34 U	NA	0.17 U	0.17 U	0.17 U	
SB-212	SB-212 (0-0.5')	4/7/2020	0-0.5	0.89	20	NA	3.0	1.9	1.1	0.47	0.45	0.71	0.33 I	0.51	0.12 I	0.21 U	0.42 U	0.21 U	NA	0.25 I	0.33 I	3.6	
	SB-212 (0.5-2')	4/7/2020	0.5-2	0.34 I	77	NA	0.97 I	0.62 I	0.30 I	0.33 I	0.10 I	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.39 U						

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-203	SB-203 (0-0.5')	4/8/2020	0-0.5	0.27 I	2.4	0.90	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-203 (0.5-2')	4/8/2020	0.5-2	0.19 I	0.38 I	0.11 I	NA	NA	NA	0.095 U	0.095 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
	SB-203 (2-4')	4/8/2020	2-4	0.19 I	0.42 I	0.16 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-204	SB-204 (0-0.5')	4/8/2020	0-0.5	0.14 I	0.30 I	0.30 I	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-204 (0.5-2')	4/8/2020	0.5-2	0.20 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-204 (2-4')	4/8/2020	2-4	2.5	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
SB-205	SB-205 (0-0.5')	4/8/2020	0-0.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-205 (0.5-2')	4/8/2020	0.5-2	0.096 U	0.096 U	0.096 U	NA	NA	NA	0.096 U	0.096 U	NA	NA	NA	0.096 U	NA	NA	NA	NA	NA
	SB-205 (2-4')	4/8/2020	2-4	0.092 U	0.092 U	0.092 U	NA	NA	NA	0.092 U	0.092 U	NA	NA	NA	0.092 U	NA	NA	NA	NA	NA
SB-206	SB-206 (0-0.5')	4/8/2020	0-0.5	0.53	0.46	0.63	NA	NA	NA	0.11 I	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-206 (0.5-2')	4/8/2020	0.5-2	0.25 I	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
	SB-206 (2-4')	4/8/2020	2-4	0.18 I	0.12 U	0.12 U	NA	NA	NA	0.17 I	0.18 I	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-207	SB-207 (0-0.5')	4/7/2020	0-0.5	0.11 I	0.20 I	0.14 I	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.097 U	NA	NA	NA	NA	NA
	SB-207 (0.5-2')	4/7/2020	0.5-2	0.12 U	0.20 I	0.13 I	NA	NA	NA	0.12 U	0.29 I	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-207 (2-4')	4/7/2020	2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 UJ	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-208	SB-208 (0-0.5')	4/7/2020	0-0.5	0.45 I	1.6	2.4	NA	NA	NA	0.50 I	0.15 UJ	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
SB-209	SB-209 (0-0.5')	4/8/2020	0-0.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-209 (0.5-2')	4/8/2020	0.5-2	0.096 U	0.096 U	0.096 U	NA	NA	NA	0.096 U	0.096 UJ	NA	NA	NA	0.096 U	NA	NA	NA	NA	NA
	SB-209 (2-4')	4/8/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-210	SB-210 (0-0.5')	4/8/2020	0-0.5	0.10 U	0.13 I	0.20 I	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-210 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-210 (2-4')	4/8/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-211	SB-211 (0-0.5')	4/7/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 UJ	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-211 (0.5-2')	4/7/2020	0.5-2	0.12 I	0.20 I	0.11 U	NA	NA	NA	0.29 I	0.11 UJ	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-211 (2-4')	4/7/2020	2-4	0.21 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 UJ	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-211 (4-6')	9/15/2020	4-6	0.26 I	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
	SB-211 (6-8')	9/15/2020	6-8	0.24 I	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA	0.17 U	NA	NA	NA	NA	NA
	SB-211 (10-12')	9/15/2020	10-12	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
	SB-211 (13-15')	9/15/2020	13-15	2.1	0.18 U	0.18 U	NA	NA	NA	0.18 U	0.18 U	NA	NA	NA	0.18 U	NA	NA	NA	NA	NA
	SB-211 (23-25')	9/15/2020	23-25	0.50	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-212	SB-211 (33-35')	9/15/2020	33-35	0.17 U	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA	0.17 U	NA	NA	NA	NA	NA
	SB-212 (0-0.5')	4/7/2020	0-0.5	0.19 I	0.28 I	0.44	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-212 (0.5-2')	4/7/2020	0.5-2	0.18 I	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 UJ	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
SB-213	SB-212 (2-4')	4/7/2020	2-4	1.6	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 UJ	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-213 (0-0.5')	4/7/2020	0-0.5	0.25 I	0.21 I	0.47	NA	NA	NA	0.14 I	0.11 UJ	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-213 (0.5-2')	4/7/2020	0.5-2	0.48	0.48	0.29 I	NA	NA	NA	0.17 I	0.099 UJ	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
	SB-213 (2-3')	4/7/2020	2-3	0.33 I	0.11 I	0.10 U	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-213 (4-6')	9/15/2020	4-6	0.44 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-213 (6-8')	9/15/2020	6-8	0.34 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-213 (10-12')	9/15/2020	10-12	0.46 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-213 (13-15')	9/15/2020	13-15	0.33 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-213 (23-25')	9/15/2020	23-25	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-214	SB-213 (33-35')	9/15/2020	33-35	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.18 I	NA	NA	NA	NA	NA
	SB-214 (0-0.5')	4/7/2020	0-0.5	0.21 I	0.57	0.31 I	NA	NA	NA	0.10 U	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-214 (0.5-2')	4/7/2020	0.5-2	0.24 I	0.12 I	0.098 U	NA	NA	NA	0.098 U	0.098 UJ	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
SB-215	SB-214 (2-4')	4/7/2020	2-4	1.4	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 UJ	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-215 (0-0.5')	4/7/2020	0-0.5	0.56	0.33 I	0.64	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-215 (0.5-2')	4/7/2020	0.5-2	2.0	0.19 U	0.095 U	NA	NA	NA	0.19 U	0.19 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
SB-216	SB-215 (2-4')	4/7/2020	2-4	0.76	0.094 U	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA
	SB-216 (0-0.5')	4/7/2020	0-0.5	0.19 I	0.37 I	0.64	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-216 (0.5-2')	4/7/2020	0.5-2	2.2	3.1	0.51	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-216	SB-216 (2-4')	4/7/2020	2-4	2.2	0.61 I	0.22 U	NA	NA	NA	0.22 U	0.22 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDnA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-217	SB-217 (0-0.5')	4/7/2020	0-0.5	0.45 I	22	NA	0.87 I	0.71 I	0.43 I	0.85	1.6	4.0	0.35 I	1.6	0.12 U	0.23 U	0.47 U	0.23 U	NA	0.12 U	0.12 U	2.1
	SB-217 (0.5-2')	4/7/2020	0.5-2	0.41	79	NA	0.40 U	0.34 I	0.35 I	1.1	0.41	0.12 I	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U	4.5
	SB-217 (2-4')	4/7/2020	2-4	0.16 I	29	NA	0.42 U	0.28 I	0.21 U	0.26 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U	2.8
SB-218	SB-218 (0-0.5')	4/7/2020	0-0.5	2.6	2,200	NA	2.6	17	3.8	1.8	1.6	5.2	0.83	3.6	0.19 I	0.22 U	0.47 I	0.25 I	NA	12	61	640
	SB-218 (0.5-2')	4/7/2020	0.5-2	0.42	990	NA	0.42 U	0.80 I	0.21 U	1.5	0.12 I	0.22 I	0.10 U	0.13 I	0.10 U	0.21 U	0.42 U	0.21 U	NA	0.42 I	1.8	29
	SB-218 (2-4')	4/7/2020	2-4	0.72	58	NA	0.48 U	0.89 I	0.24 U	0.33 I	0.12 U	0.21 I	0.12 U	0.12 I	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.19 I	0.72	8.6
	SB-218 (4-6')	9/14/2020	4-6'	0.31 I	30	NA	0.59 I	2.5	0.57 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.50 U	0.25 U	NA	1.9	4.2	25
	SB-218 (6-8')	9/14/2020	6-8'	0.21 I	17	NA	0.51 U	0.88 I	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.51 U	0.25 U	NA	0.31 I	0.58	3.4
	SB-218 (10-12')	9/14/2020	10-12	0.41 I	63	NA	0.62 U	0.82 I	0.31 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	0.62 U	0.31 U	NA	0.42 I	0.70	6.3
	SB-218 (13-15')	9/14/2020	13-15	0.29 I	14	NA	0.57 U	0.41 I	0.28 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.57 U	0.28 U	NA	0.89	0.89	6.5
	SB-218 (23-25')	9/14/2020	23-25	0.28 I	12	NA	0.42 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	0.43	0.76	9.1
SB-218 (33-35')	9/14/2020	33-35	0.44 I	37	NA	0.48 U	0.27 I	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.37 I	0.59	8.1	
SB-218R	SB-218R (0-0.5)	3/29/2021	0-0.5	4.8	240	1.3 I	5.1	42	15	1.2	0.72 I	2.7	0.42 I	1.4	0.23 U	0.23 U	1.2 I	0.46 I	NA	48	83	560
SB-219	SB-219 (0-0.5')	4/7/2020	0-0.5	0.13 I	5.5	NA	0.36 U	0.22 I	0.18 U	0.13 I	0.097 I	0.21 I	0.13 I	0.09 U	0.09 U	0.18 U	0.36 U	0.18 U	NA	0.17 I	0.13 I	1.1
	SB-219 (0.5-2')	4/7/2020	0.5-2	0.18 I	89	NA	0.48 U	0.32 I	0.24 U	0.39 I	0.14 I	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.12 U	0.22 I	8.1
	SB-219 (2-3')	4/7/2020	2-4	0.19 I	71	NA	0.44 U	0.24 I	0.22 U	0.12 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.16 I	3.5
SB-220	SB-220 (0-0.5')	4/7/2020	0-0.5	0.74	21	NA	0.39 U	0.19 U	0.43 I	0.31 I	0.11 I	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.39 U	13	NA	0.097 U	0.097 U	1.3
	SB-220 (0.5-2')	4/7/2020	0.5-2	0.56	79	NA	0.59 I	1.3	0.29 I	0.32 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.50 U	1.4	NA	0.32 I	0.84	38
	SB-220 (2-4')	4/7/2020	2-4	0.65	66	NA	0.89 I	1.7	0.30 I	0.48 I	0.17 I	0.36 I	0.12 U	0.12 U	0.12 U	0.25 U	0.49 U	0.63 I	NA	0.33 I	0.91	33
SB-221	SB-221 (0-0.5')	4/6/2020	0-0.5	4.2	84	NA	1.4 I	1.7	1.5	1.9	3.1	17	1.7	4.2	0.40	0.19 U	1.3 I	16	NA	0.29 I	0.72	47
	SB-221 (0.5-2')	4/6/2020	0.5-2	2.1	340	NA	0.96 I	1.3	0.79 I	5.2	2.0	2.1	0.25 I	0.51	0.12 U	0.24 U	5.1	6.1	NA	0.27 I	0.62	21
SB-222	SB-222 (0-0.5')	4/7/2020	0-0.5	5.6	110	NA	1.6	0.85	0.97	1.1	0.31 I	1.2	0.27 I	0.33 I	0.093 U	0.19 U	0.37 U	2.5	NA	0.10 I	0.20 I	27
	SB-222 (0.5-2')	4/7/2020	0.5-2	0.63	290	NA	0.37 UJ	0.70 I	0.64 I	0.34 I	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U	0.37 U	0.19 U	NA	0.093 U	0.53	47
	SB-222 (2-4')	4/7/2020	2-4	0.32 I	62	NA	0.54 I	2.7	0.23 I	0.16 I	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.60	17
SB-223	SB-223 (0-0.5')	4/6/2020	0-0.5	0.94	91	NA	1.1 I	1.5	0.55 I	0.99	0.83	1.5	0.56	0.53	0.15 I	0.24 U	0.48 U	0.27 I	NA	0.14 I	0.38 I	11
	SB-223 (0.5-2')	4/6/2020	0.5-2	0.82	17	NA	1.8 I	1.4	0.73 I	0.36 I	0.47 I	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	1.6 I	0.24 U	NA	0.12 U	0.17 I	8.1
	SB-223 (2-4')	4/6/2020	2-4	0.33 I	28	NA	0.47 U	0.56 I	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.12 I	0.22 I	8.5
SB-224	SB-224 (0-0.5')	4/7/2020	0-0.5	0.17 I	28	NA	0.45 I	0.39 I	0.22 U	0.11 U	0.13 I	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.13 I	0.22 I	4.5
	SB-224 (0.5-2')	4/7/2020	0.5-2	0.10 U	21	NA	0.40 U	0.20 U	0.20 U	0.15 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	0.20 U	NA	0.10 U	0.10 U	0.62
	SB-224 (2-4')	4/7/2020	2-4	0.10 U	29	NA	0.41 U	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	0.37 I
SB-225	SB-225 (0-0.5')	4/7/2020	0-0.5	0.85	44	NA	0.65 I	1.2	0.36 I	0.55	0.92	3.7	0.53	1.0	0.10 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.10 U	9.5
	SB-225 (0.5-2')	4/7/2020	0.5-2	0.94	79	NA	1.7	0.67 I	0.19 U	0.35 I	0.67	0.34 I	0.094 U	0.094 U	0.094 U	0.19 U	1.0 I	0.19 U	NA	0.094 U	0.094 U	24
	SB-225 (2-4')	4/7/2020	2-4	0.27 I	51	NA	0.52 I	0.37 I	0.22 U	0.34 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	0.2				

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-217	SB-217 (0-0.5')	4/7/2020	0-0.5	0.18 I	0.99	0.33 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-217 (0.5-2')	4/7/2020	0.5-2	0.25 I	0.22 I	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-217 (2-4')	4/7/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-218	SB-218 (0-0.5')	4/7/2020	0-0.5	8.5	2.3	3.4	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-218 (0.5-2')	4/7/2020	0.5-2	3.4	0.15 I	0.22 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-218 (2-4')	4/7/2020	2-4	1.2	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-218 (4-6')	9/14/2020	4-6'	0.17 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-218 (6-8')	9/14/2020	6-8'	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-218 (10-12')	9/14/2020	10-12	0.55 I	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
	SB-218 (13-15')	9/14/2020	13-15	0.36 I	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-218 (23-25')	9/14/2020	23-25	0.41 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-218 (33-35')	9/14/2020	33-35	0.48 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-218R	SB-218R (0-0.5)	3/29/2021	0-0.5	3.9	1.3	1.4	1.7	23	1.6	0.12 U	0.66	0.12 U	0.23 U	0.23 U	0.46 U	NA	NA	NA	NA	NA
SB-219	SB-219 (0-0.5')	4/7/2020	0-0.5	0.09 U	0.25 I	0.48	NA	NA	NA	0.09 U	0.09 U	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA
	SB-219 (0.5-2')	4/7/2020	0.5-2	0.47 I	1.1	0.38 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-219 (2-3')	4/7/2020	2-4	0.21 I	0.11 U	0.20 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-220	SB-220 (0-0.5')	4/7/2020	0-0.5	0.14 I	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.097 U	NA	NA	NA	NA	NA
	SB-220 (0.5-2')	4/7/2020	0.5-2	0.72	0.26 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-220 (2-4')	4/7/2020	2-4	0.36 I	0.56	0.31 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-221	SB-221 (0-0.5')	4/6/2020	0-0.5	1.3	2.0	8.4	NA	NA	NA	0.24 I	0.095 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
	SB-221 (0.5-2')	4/6/2020	0.5-2	1.9	4.5	2.1	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-222	SB-222 (0-0.5')	4/7/2020	0-0.5	0.94	4.9	4.0	NA	NA	NA	0.093 U	0.093 U	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA
	SB-222 (0.5-2')	4/7/2020	0.5-2	1.4	0.50	0.11 I	NA	NA	NA	0.093 U	0.093 U	NA	NA	NA	0.093 U	NA	NA	NA	NA	NA
	SB-222 (2-4')	4/7/2020	2-4	0.36 I	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
SB-223	SB-223 (0-0.5')	4/6/2020	0-0.5	0.76	0.93	1.6	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-223 (0.5-2')	4/6/2020	0.5-2	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.14 I	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-223 (2-4')	4/6/2020	2-4	0.14 I	0.14 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-224	SB-224 (0-0.5')	4/7/2020	0-0.5	0.15 I	0.68	0.39 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-224 (0.5-2')	4/7/2020	0.5-2	0.10 U	0.32 I	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-224 (2-4')	4/7/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-225	SB-225 (0-0.5')	4/7/2020	0-0.5	0.39 I	2.5	2.0	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-225 (0.5-2')	4/7/2020	0.5-2	0.79	1.2	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA
	SB-225 (2-4')	4/7/2020	2-4	0.11 U	0.14 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.13 I	NA	NA	NA	NA	NA
SB-226	SB-226 (0-0.5')	4/7/2020	0-0.5	0.098 U	1.2	3.5	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
	SB-226 (0.5-2')	4/7/2020	0.5-2	0.71	0.12 I	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.097 U	NA	NA	NA	NA	NA
	SB-226 (2-4')	4/7/2020	2-4	0.35 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-227	SB-227 (0-0.5')	4/6/2020	0-0.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-227 (0.5-2')	4/6/2020	0.5-2	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
	SB-227 (2-4')	4/6/2020	2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-228	SB-228 (0-0.5')	4/6/2020	0-0.5	0.14 I	1.1	0.63	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-228 (0.5-2')	4/6/2020	0.5-2	0.26 I	0.12 I	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-228 (2-4')	4/6/2020	2-4	0.45	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-228-(4-6')	9/14/2020	4-6	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-228-(6-8')	9/14/2020	6-8	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-228-(10-12')	9/14/2020	10-12	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-228-(13-15')	9/14/2020	13-15	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-228-(23-25')	9/14/2020	23-25	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
SB-229	SB-228-(33-35')	9/14/2020	33-35	0.19 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-229 (0-0.5')	4/6/2020	0-0.5	0.099 U	0.12 I	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
	SB-229 (0.5-2')	4/6/2020	0.5-2	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
SB-230	SB-229 (2-4')	4/6/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-230 (0-0.5')	4/6/2020	0-0.5	1.9	2.2	6.3	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
	SB-230 (0.5-2')	4/6/2020	0.5-2	4.0	3.6	1.1	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-230 (2-4')	4/6/2020	2-4	1.3	1.2	0.46 I	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDnA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-231	SB-231 (0-0.5')	4/6/2020	0-0.5	1.0	32	NA	1.8	1.5	1.3	0.69	0.65	0.78	0.35 I	0.99	0.11 U	0.22 U	0.44 U	0.27 I	NA	0.28 I	0.56	6.5	
	SB-231 (0.5-2')	4/6/2020	0.5-2	0.27 I	14	NA	0.54 U	0.41 I	0.28 I	0.34 I	0.23 I	0.26 I	0.13 U	0.13 U	0.13 U	0.27 U	0.54 U	0.27 U	NA	0.13 U	0.24 I	2.9	
	SB-231 (2-4')	4/6/2020	2-4	0.39 I	24	NA	0.93 I	0.93 I	0.38 I	0.19 I	0.20 I	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.60 U	0.30 U	NA	0.27 I	0.48 I	4.7	
SB-232	SB-232 (0-0.5')	4/6/2020	0-0.5	1.0	46	NA	3.0	2.3	0.35 I	0.84	0.46	0.35 I	0.11 I	0.15 I	0.097 U	0.19 U	0.39 U	0.19 U	NA	5.0	1.3	9.5	
	SB-232 (0.5-2')	4/6/2020	0.5-2	0.66	25	NA	0.51 I	0.53 I	0.55 I	0.45	0.20 I	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.70 I	0.22 U	NA	0.11 U	0.17 I	4.5	
	SB-232 (2-4')	4/6/2020	2-4	0.48	230	NA	0.49 I	0.74 I	0.71 I	0.38 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.15 I	0.79	24	
SB-233	SB-233 (0-0.5')	4/6/2020	0-0.5	0.73	42	NA	0.48 I	0.93	0.30 I	0.73	0.67	1.5	0.55	0.38 I	0.13 I	0.20 U	0.39 U	0.55 I	NA	0.23 I	0.60	9.2	
	SB-233 (0.5-2')	4/6/2020	0.5-2	3.4	780	NA	0.49 I	0.94	0.48 I	8.1	2.5	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.39 U	1.9	NA	0.30 I	0.83	23	
	SB-233 (2-4')	4/6/2020	2-4	5.7	670	NA	0.38 U	0.23 I	0.63 I	3.0	0.19 I	0.094 U	0.094 U	0.094 U	0.094 U	0.19 U	0.38 I	0.19 U	NA	0.094 U	0.58	60	
SB-234	SB-234 (0-0.5')	4/7/2020	0-0.5	2.4	11	NA	0.43 U	0.21 U	1.6	0.11 U	2.1	0.11 U	3.2	0.11 U	0.11 U	0.21 U	11	0.21 U	NA	0.11 U	0.39 I	2.9	
	SB-234 (0.5-2')	4/7/2020	0.5-2	0.33 I	29	NA	0.42 U	0.93	0.21 U	0.16 I	0.16 I	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.42 U	0.21 U	NA	0.10 U	0.18 I	5.7	
	SB-234 (2-4')	4/7/2020	2-4	0.20 I	39	NA	0.45 U	0.55 I	0.22 U	0.14 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.20 I	7.6	
SB-235	SB-235 (0-0.5')	4/7/2020	0-0.5	0.32 I	6.5	NA	0.43 U	0.44 I	0.21 U	0.19 I	0.27 I	0.48	0.21 I	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.17 I	1.2	
	SB-235 (0.5-2')	4/7/2020	0.5-2	0.34 I	10	NA	0.40 U	0.20 I	0.20 U	0.15 I	0.28 I	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	0.20 I	NA	0.10 U	0.10 U	1.1	
	SB-235 (2-4')	4/7/2020	2-4	0.25 I	5.0	NA	0.48 U	0.24 U	0.24 U	0.13 I	0.16 I	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.12 U	0.12 U	0.85	
SB-236	SB-236 (0-0.5')	4/6/2020	0-0.5	1.2	16	NA	0.47 I	0.56 I	0.51 I	2.8	3.6	1.9	0.24 I	0.20 I	0.11 U	0.22 U	0.44 U	3.2	NA	0.11 U	0.11 U	1.5	
	SB-236 (0.5-2')	4/6/2020	0.5-2	1.7	290	NA	0.42 U	0.36 I	0.66 I	4.2	1.3	0.17 I	0.10 U	0.12 I	0.10 U	0.21 U	0.42 U	180	NA	0.10 U	0.10 U	2.2	
	SB-236 (2-4')	4/6/2020	2-4	2.9	480	NA	0.40 U	0.20 I	0.86	4.8	0.44	0.099 U	0.099 U	0.12 I	0.099 U	0.20 U	0.42 I	65	NA	0.099 U	0.13 I	4.9	
SB-237	SB-237 (0-0.5')	4/6/2020	0-0.5	15	940	NA	0.61 I	2.1	2.0	8.1	1.8	2.0	0.28 I	0.38 I	0.10 U	0.20 U	0.53 I	28	NA	0.29 I	0.47	7.4	
	SB-237 (0.5-2')	4/6/2020	0.5-2	12	1,100	NA	0.37 U	0.47 I	1.1	6.2	0.38	0.11 I	0.092 U	0.092 U	0.092 U	0.18 U	0.37 U	10	NA	0.092 U	0.22 I	3.6	
	SB-237 (2-4')	4/7/2020	2-4	8.6	1,100	NA	0.38 U	0.46 I	0.62 I	5.5	0.17 I	0.095 U	0.095 U	0.095 U	0.095 U	0.19 U	1.3 I	3.8	NA	0.095 U	0.16 I	4.2	
	SB-237 (4-6')	9/14/2020	4-6	19	260	NA	1.8 I	3.3	2.1	1.2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	13	0.30 U	NA	2.1	2.3	25	
	SB-237 (6-8')	9/14/2020	6-8	23	360	NA	1.8 I	3.0	2.4	0.96	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	9.1	0.28 U	NA	2.3	2.2	24	
	SB-237 (10-12')	9/14/2020	10-12	12	75	NA	1.7 I	3.5	2.3	0.17 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	4.5	0.27 U	NA	5.8	4.7	31	
	SB-237 (13-15')	9/14/2020	13-15	13	150	NA	1.6 I	3.1	2.5	0.42 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	5.7	0.29 U	NA	4.4	3.4	25	
	SB-237 (23-25')	9/14/2020	23-25	16	220	NA	0.79 I	2.0	2.5	0.44 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	3.6	0.25 U	NA	1.8	3.1	30	
	SB-237 (33-35')	9/14/2020	33-35	16	200	NA	0.44 U	0.83 I	0.99	0.45	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	2.7	0.22 U	NA	1.0	1.6	24	
SB-238	SB-238 (0-0.5')	4/6/2020	0-0.5	3.7	100	NA	1.0 I	1.3	0.89	1.3	0.99	12	0.62	5.7	0.13 I	0.20 U	0.88 I	1.8	NA	0.23 I	0.42	6.0	
	SB-238 (0.5-2')	4/6/2020	0.5-2	4.5	220	NA	0.40 U	0.59 I	0.45 I	1.3	0.49	6.2	0.10 U	0.52	0.10 U	0.20 U	1.6 I	3.1	NA	0.10 U	0.10 U	2.0	
	SB-238 (2-4')	4/6/2020	2-4	8.1	310	NA	0.39 U	0.39 I	1.2	1.3	0.22 I	0.89	0.097 U	0.14 I	0.097 U	0.19 U	3.1	3.6	NA	0.097 U	0.11 I	4.0	
SB-239	SB-239 (0-0.5')	4/7/2020	0-0.5	2.4	27	NA	0.50 I	1.8	1.3	1.7	1.6	1.9	0.97	0.096 U	0.28 I	0.19 U	0.40 I	7.2	NA	0.28 I	0.51	7.4	
	SB-239 (0.5-2')	4/7/2020	0.5-2	1.1	160	NA	0.39 U	0.40 I	0.31 I	1.1	0.80	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.39 U	28	NA	0.098 U	0.098 U	2.7	
	SB-239 (2-4')	4/7/2020	2-4	1.4	170	NA	0.40 U	0.21 I	0.38 I	1.1	0.35 I	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.40 U	13	NA	0.10 U	0.11 I	4.1	
SB-240	SB-240 (0-0.5')	4/6/2020	0-0.5	5.6</																			

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-231	SB-231 (0-0.5')	4/6/2020	0-0.5	0.50	0.34 I	1.0	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-231 (0.5-2')	4/6/2020	0.5-2	0.20 I	0.32 I	0.45 I	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-231 (2-4')	4/6/2020	2-4	0.18 I	0.15 I	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
SB-232	SB-232 (0-0.5')	4/6/2020	0-0.5	0.70	1.2	0.54	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.097 U	NA	NA	NA	NA	NA
	SB-232 (0.5-2')	4/6/2020	0.5-2	0.53	0.44	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-232 (2-4')	4/6/2020	2-4	0.90	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-233	SB-233 (0-0.5')	4/6/2020	0-0.5	1.4	1.3	3.3	NA	NA	NA	0.13 I	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
	SB-233 (0.5-2')	4/6/2020	0.5-2	14	4.6	0.25 I	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.097 UJ	NA	NA	NA	NA	NA
	SB-233 (2-4')	4/6/2020	2-4	12	0.20 I	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA
SB-234	SB-234 (0-0.5')	4/7/2020	0-0.5	0.11 U	0.96	1.3	NA	NA	NA	0.11 U	0.44	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-234 (0.5-2')	4/7/2020	0.5-2	0.50	1.2	0.49	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-234 (2-4')	4/7/2020	2-4	0.57	0.22 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-235	SB-235 (0-0.5')	4/7/2020	0-0.5	0.11 I	0.23 I	1.8	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-235 (0.5-2')	4/7/2020	0.5-2	0.21 I	3.5	0.13 I	NA	NA	NA	0.10 UJ	0.10 UJ	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-235 (2-4')	4/7/2020	2-4	0.14 I	1.1	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-236	SB-236 (0-0.5')	4/6/2020	0-0.5	0.30 I	0.86	0.40 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-236 (0.5-2')	4/6/2020	0.5-2	0.40 I	0.16 I	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-236 (2-4')	4/6/2020	2-4	1.3	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
SB-237	SB-237 (0-0.5')	4/6/2020	0-0.5	2.3	4.1	3.4	NA	NA	NA	34	0.61	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-237 (0.5-2')	4/6/2020	0.5-2	1.5	0.31 I	0.092 U	NA	NA	NA	0.87	0.092 U	NA	NA	NA	0.092 U	NA	NA	NA	NA	NA
	SB-237 (2-4')	4/7/2020	2-4	1.4	0.095 U	0.095 U	NA	NA	NA	0.11 I	0.095 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
	SB-237 (4-6')	9/14/2020	4-6	1.1	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
	SB-237 (6-8')	9/14/2020	6-8	1.1	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-237 (10-12')	9/14/2020	10-12	1.1	0.14 U	0.14 U	NA	NA	NA	0.22 I	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-237 (13-15')	9/14/2020	13-15	1.3	0.14 U	0.14 U	NA	NA	NA	0.49 I	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-237 (23-25')	9/14/2020	23-25	1.7	0.14 I	0.13 U	NA	NA	NA	0.14 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
SB-238	SB-237 (33-35')	9/14/2020	33-35	2.9	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-238 (0-0.5')	4/6/2020	0-0.5	0.56	0.85	2.2	NA	NA	NA	2.2	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
	SB-238 (0.5-2')	4/6/2020	0.5-2	0.51	1.1	0.26 I	NA	NA	NA	5.2	0.18 I	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-239	SB-238 (2-4')	4/6/2020	2-4	0.48	0.12 I	0.097 U	NA	NA	NA	0.41	0.097 U	NA	NA	NA	0.097 U	NA	NA	NA	NA	NA
	SB-239 (0-0.5')	4/7/2020	0-0.5	0.44	0.81	3.5	NA	NA	NA	1.4	0.096 U	NA	NA	NA	0.096 U	NA	NA	NA	NA	NA
	SB-239 (0.5-2')	4/7/2020	0.5-2	0.43	3.8	0.84	NA	NA	NA	0.25 I	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
SB-240	SB-239 (2-4')	4/7/2020	2-4	0.71	0.21 I	0.11 I	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-240 (0-0.5')	4/6/2020	0-0.5	0.38 I	0.45 I	3.0	NA	NA	NA	15	0.20 I	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-240 (0.5-2')	4/6/2020	0.5-2	0.15 I	0.24 I	0.33 I	NA	NA	NA	1.5	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-241	SB-240 (2-4')	4/6/2020	2-4	0.17 I	0.14 U	0.14 U	NA	NA	NA	0.33 I	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-241 (0-0.5')	4/7/2020	0-0.5	0.092 U	0.092 U	0.092 U	NA	NA	NA	0.23 I	0.092 U	NA	NA	NA	0.092 U	NA	NA	NA	NA	NA
	SB-241 (0.5-2')	4/7/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-242	SB-241 (2-4')	4/7/2020	2-4	0.17 I	0.095 U	0.095 U	NA	NA	NA	0.095 U	0.095 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
	SB-242 (0-0.5')	4/7/2020	0-0.5	0.10 U	0.10 U	0.42	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-242 (0.5-2')	4/7/2020	0.5-2	0.098 U	0.13 I	0.39 I	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
SB-243	SB-242 (2-4')	4/7/2020	2-4	0.11 U	0.93	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-243 (0-0.5')	4/7/2020	0-0.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-243 (0.5-2')	4/7/2020	0.5-2	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-244	SB-243 (2-4')	4/7/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-244 (0-0.5')	4/7/2020	0-0.5	0.094 U	0.094 U	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA
SB-245	SB-244 (0.5-2')	4/7/2020	0.5-2	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
	SB-245 (0-0.5')	4/6/2020	0-0.5	0.13 I	0.50	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-245 (0.5-2')	4/6/2020	0.5-2	0.70	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-246	SB-245 (2-4')	4/6/2020	2-4	1.5	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-246 (0-0.5')	4/6/2020	0-0.5	0.15 I	0.095 U	0.095 U	NA	NA	NA	0.095 U	0.095 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
	SB-246 (0.5-2')	4/6/2020	0.5-2	0.094 U	0.094 U	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA
SB-246	SB-246 (2-4')	4/6/2020	2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-247	SB-247 (0-0.5')	4/6/2020	0-0.5	0.30 I	13	NA	0.39 U	0.20 U	0.20 U	0.24 I	0.31 I	0.098 U	0.10 I	0.098 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.098 U	0.41		
	SB-247 (0.5-2')	4/6/2020	0.5-2	0.18 I	6.8	NA	0.38 U	0.19 U	0.19 U	0.19 I	0.094 U	0.094 U	0.094 U	0.094 U	0.19 U	0.38 U	0.19 U	NA	0.094 U	0.094 U	0.26 I		
	SB-247 (2-4')	4/6/2020	2-4	0.19 I	1.7	NA	0.48 U	0.29 I	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.12 U	0.12 U	0.28 I		
SB-248	SB-248 (0-0.5')	4/8/2020	0-0.5	0.74	1.4	NA	1.3 I	0.75 I	0.78	2.2	0.14 I	0.11 I	0.095 U	0.095 U	0.095 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U	0.095 U	
	SB-248 (0.5-2')	4/8/2020	0.5-2	0.56	0.95	NA	1.0 I	0.53 I	0.87	1.6	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.098 U	0.098 U	
	SB-248 (2-4')	4/8/2020	2-4	0.36 I	0.29 U	NA	5.8	4.4	1.9	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	0.58 U	0.29 U	NA	0.14 U	0.14 U	0.53 I		
SB-249	SB-249 (0-0.5')	4/8/2020	0-0.5	0.38 I	4.7	NA	0.90 I	0.40 I	0.85 I	0.65	0.42 I	0.21 I	0.13 I	0.11 U	0.11 U	0.21 U	0.42 U	0.21 U	NA	0.11 U	0.11 U	0.22 I	
	SB-249 (0.5-2')	4/8/2020	0.5-2	0.38 I	15	NA	0.84 I	0.30 I	0.61 I	0.69	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U	0.12 I	
	SB-249 (2-4')	4/8/2020	2-4	0.32 I	14	NA	0.81 I	0.23 U	0.51 I	0.53	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	0.12 U	0.12 U	0.12 U	
SB-250	SB-250 (0-0.5')	4/8/2020	0-0.5	0.37 I	2.0	NA	0.69 I	0.25 I	0.65 I	0.80	0.19 I	0.13 I	0.096 U	0.096 U	0.096 U	0.19 U	0.39 U	0.19 U	NA	0.096 U	0.096 U	0.11 I	
	SB-250 (0.5-2')	4/8/2020	0.5-2	0.69	0.88	NA	0.45 I	0.21 I	0.47 I	0.44	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.39 U	0.20 U	NA	0.098 U	0.098 U	0.16 I	
	SB-250 (2-4')	4/8/2020	2-4	0.55	0.21 U	NA	0.41 U	0.21 U	0.51 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U	0.14 I		
SB-251	SB-251 (0-0.5')	4/8/2020	0-0.5	0.33 I	3.2	NA	0.38 U	0.22 I	0.40 I	0.39	0.17 I	0.095 U	0.11 I	0.095 U	0.095 U	0.19 U	0.38 U	0.19 U	NA	0.095 U	0.095 U	0.18 I	
	SB-251 (0.5-2')	4/8/2020	0.5-2	0.30 I	1.2	NA	0.37 U	0.19 U	0.24 I	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.19 U	0.37 U	0.19 U	NA	0.094 U	0.094 U	0.21 I		
	SB-251 (2-4')	4/8/2020	2-4	0.10 U	0.21 U	NA	0.41 U	0.21 U	0.21 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U	0.10 U		
SB-252	SB-252 (0-0.5')	4/8/2020	0-0.5	0.38 I	0.89	NA	0.59 I	0.22 I	0.42 I	0.13 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.43 U	0.22 U	NA	0.11 U	0.11 U	0.11 U	
	SB-252 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.20 U	NA	0.41 U	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	0.10 U	
	SB-252 (2-4')	4/8/2020	2-4	0.092 U	0.18 U	NA	0.37 U	0.18 U	0.18 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.18 U	0.37 U	0.18 U	NA	0.092 U	0.092 U	0.14 I		
SB-253	SB-253 (0-0.5')	4/8/2020	0-0.5	3.2	5.7	NA	0.91 I	0.41 I	2.1	3.4	1.8	0.76	1.1	0.22 I	0.11 U	0.22 U	0.44 U	13	NA	0.11 U	0.11 U	0.13 I	
	SB-253 (0.5-2')	4/8/2020	0.5-2	5.6	43	NA	1.7 I	0.72 I	5.5	5.1	0.24 I	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	7.8	NA	0.12 U	0.12 U	0.61	
	SB-253 (2-4')	4/8/2020	2-4	6.5	43	NA	7.8	2.7	8.0	2.5	0.32 I	0.16 U	0.23 I	0.16 U	0.16 U	0.32 U	0.64 U	5.3	NA	0.18 I	0.36 I	5.4	
SB-254	SB-254 (0-0.5')	4/8/2020	0-0.5	0.43	3.1	NA	0.55 I	0.28 I	0.65 I	0.48	0.099 U	0.099 U	0.099 U	0.099 U	0.099 U	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U	0.099 U	
	SB-254 (0.5-2')	4/8/2020	0.5-2	0.49	13	NA	0.41 U	0.49 I	0.55 I	0.14 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	0.10 U	
	SB-254 (2-4')	4/8/2020	2-4	0.19 I	2.7	NA	0.47 U	0.24 U	0.39 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.12 U	0.12 U	0.94		
SB-255	SB-255 (0-0.5')	4/8/2020	0-0.5	0.49	8.3	NA	0.46 U	0.23 U	0.57 I	0.37 I	0.38 I	0.56	0.21 I	0.24 I	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U	0.39 I	
	SB-255 (0.5-2')	4/8/2020	0.5-2	0.36 I	5.8	NA	0.49 U	0.32 I	0.74 I	0.49	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.49 U	0.25 U	NA	0.12 U	0.12 U	0.28 I	
	SB-255 (2-4')	4/8/2020	2-4	0.19 I	4.3	NA	0.41 U	0.20 U	0.20 U	0.28 I	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.10 U	0.10 U	0.10 U	
SB-256	SB-256 (0-0.5')	4/8/2020	0-0.5	0.40	1.7	NA	0.39 U	0.19 U	0.29 I	0.15 I	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.19 U	0.39 U	0.19 U	NA	0.097 U	0.097 U	0.17 I	
	SB-256 (0.5-2')	4/8/2020	0.5-2	0.18 I	0.68 I	NA	0.37 U	0.19 U	0.19 U	0.093 U	0.093 U	0.093 U	0.093 U	0.093 U	0.19 U	0.37 U	0.19 U	NA	0.093 U	0.093 U	0.46		
	SB-256 (2-4')	4/8/2020	2-4	0.10 U	0.21 U	NA	0.41 U	0.21 U	0.21 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.41 U	0.21 U	NA	0.10 U	0.10 U	0.10 U		
SB-257	SB-257 (0-0.5')	4/8/2020	0-0.5	4.2	15	NA	2.8	2.0	4.0	6.9	11	6.7	4.3	1.4	1.4	0.18 U	1.1 I	24	NA	0.092 U	0.092 U	0.65	
	SB-257 (0.5-2')	4/8/2020	0.5-2	10	47	NA	0.91 I	0.95	3.4	10	2.9	0.26 I	0.19 I	0.10 U	0.10 U	0.20 U	0.92 I	100	NA	0.10 U	0.10 U	0.59	
	SB-257 (2-4')	4/8/2020	2-4	6.2	6.1																		

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-247	SB-247 (0-0.5')	4/6/2020	0-0.5	0.098 U	0.22 I	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
	SB-247 (0.5-2')	4/6/2020	0.5-2	0.094 U	0.094 U	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA
	SB-247 (2-4')	4/6/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-248	SB-248 (0-0.5')	4/8/2020	0-0.5	0.095 U	0.095 U	0.095 U	NA	NA	NA	0.095 U	0.095 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
	SB-248 (0.5-2')	4/8/2020	0.5-2	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
	SB-248 (2-4')	4/8/2020	2-4	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
SB-249	SB-249 (0-0.5')	4/8/2020	0-0.5	0.11 U	0.11 UJ	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-249 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-249 (2-4')	4/8/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-250	SB-250 (0-0.5')	4/8/2020	0-0.5	0.096 U	0.096 U	0.096 U	NA	NA	NA	0.096 U	0.096 U	NA	NA	NA	0.096 U	NA	NA	NA	NA	NA
	SB-250 (0.5-2')	4/8/2020	0.5-2	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.098 U	NA	NA	NA	NA	NA
	SB-250 (2-4')	4/8/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-251	SB-251 (0-0.5')	4/8/2020	0-0.5	0.095 U	0.095 U	0.095 U	NA	NA	NA	0.095 U	0.095 U	NA	NA	NA	0.095 U	NA	NA	NA	NA	NA
	SB-251 (0.5-2')	4/8/2020	0.5-2	0.094 U	0.094 U	0.094 U	NA	NA	NA	0.094 U	0.094 U	NA	NA	NA	0.094 U	NA	NA	NA	NA	NA
	SB-251 (2-4')	4/8/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-252	SB-252 (0-0.5')	4/8/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-252 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-252 (2-4')	4/8/2020	2-4	0.092 U	0.092 U	0.092 U	NA	NA	NA	0.092 U	0.092 U	NA	NA	NA	0.092 U	NA	NA	NA	NA	NA
SB-253	SB-253 (0-0.5')	4/8/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-253 (0.5-2')	4/8/2020	0.5-2	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-253 (2-4')	4/8/2020	2-4	0.23 I	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
SB-254	SB-254 (0-0.5')	4/8/2020	0-0.5	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
	SB-254 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-254 (2-4')	4/8/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-255	SB-255 (0-0.5')	4/8/2020	0-0.5	0.11 U	0.86	0.22 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-255 (0.5-2')	4/8/2020	0.5-2	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-255 (2-4')	4/8/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA
SB-256	SB-256 (0-0.5')	4/8/2020	0-0.5	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA
	SB-256 (0.5-2')	4/8/2020	0.5-2	0.093 U	0.093 U	0.093 U	NA	NA	NA	0.093 U	0.093 U	NA	NA	NA	0.37 U	NA	NA	NA	NA	NA
	SB-256 (2-4')	4/8/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA
SB-257	SB-257 (0-0.5')	4/8/2020	0-0.5	0.092 U	0.18 I	0.11 I	NA	NA	NA	0.092 U	0.092 U	NA	NA	NA	0.37 U	NA	NA	NA	NA	NA
	SB-257 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA
	SB-257 (2-4')	4/8/2020	2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA
SB-258	SB-258 (0-0.5')	4/8/2020	0-0.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA
	SB-258 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA
	SB-258 (2-4')	4/8/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.41 U	NA	NA	NA	NA	NA
SB-259	SB-259 (0-0.5')	4/8/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA
	SB-259 (0.5-2')	4/8/2020	0.5-2	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.48 U	NA	NA	NA	NA	NA
	SB-259 (2-4')	4/8/2020	2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA
SB-260	SB-260 (0-0.5')	4/8/2020	0-0.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA
	SB-260 (0.5-2')	4/8/2020	0.5-2	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.44 U	NA	NA	NA	NA	NA
	SB-260 (2-4')	4/8/2020	2-4	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.55 U	NA	NA	NA	NA	NA
SB-261	SB-261 (0-0.5')	4/8/2020	0-0.5	0.097 U	0.097 U	0.097 U	NA	NA	NA	0.097 U	0.097 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA
	SB-261 (0.5-2')	4/8/2020	0.5-2	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA
	SB-261 (2-4')	4/8/2020	2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA
SB-262	SB-262 (0-0.5')	4/8/2020	0-0.5	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.48 U	NA	NA	NA	NA	NA
	SB-262 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA
	SB-262 (2-4')	4/8/2020	2-4	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.53 U	NA	NA	NA	NA	NA
SB-263	SB-263 (0-0.5')	4/8/2020	0-0.5	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA
	SB-263 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 UJ	0.10 UJ	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA
	SB-263 (2-4')	4/8/2020	2-4	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.40 U	NA	NA	NA	NA	NA
SB-264	SB-264 (0-0.5')	4/8/2020	0-0.5	0.092 U	0.092 U	0.092 U	NA	NA	NA	0.092 U	0.092 U	NA	NA	NA	0.37 U	NA	NA	NA	NA	NA
	SB-264 (0.5-2')	4/8/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.42 U	NA	NA	NA	NA	NA
	SB-264 (2-4')	4/8/2020	2-4	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.54 U	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-265	SB-265 (0-0.5')	4/7/2020	0-0.5	0.42 I	21	NA	0.61 I	0.26 I	0.32 I	0.29 I	0.56	1.6	0.11 U	0.48	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.22 I	0.27 I	1.5	
	SB-265 (0.5-2')	4/7/2020	0.5-2	0.54	30	NA	0.45 U	0.22 U	0.29 I	0.74	0.26 I	2.4	0.11 U	0.46	0.11 U	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.21 I	2.4	
	SB-265 (2-4')	4/7/2020	2-4	0.87	63	NA	0.43 U	0.21 U	0.45 I	1.9	0.19 I	1.8	0.11 U	0.56	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.24 I	3.6	
SB-266	SB-266 (0-0.5')	4/7/2020	0-0.5	0.11 U	9.8	NA	0.44 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U	2.3	
	SB-266 (0.5-2')	4/7/2020	0.5-2	0.16 I	15	NA	0.46 U	0.23 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U	1.6	
	SB-266 (2-4')	4/7/2020	2-4	0.11 U	11	NA	0.46 U	0.23 U	0.23 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U	0.32 I	
SB-267	SB-267 (0-0.5')	4/8/2020	0-0.5	9.0	0.98	NA	4.2	2.7	7.6	8.9	5.1	1.5	1.2	0.35 I	0.41 I	0.21 U	0.43 U	23	NA	0.11 U	0.11 U	0.11 U	
	SB-267 (0.5-2')	4/8/2020	0.5-2	8.4	0.20 U	NA	0.53 I	0.83	6.4	4.7	0.11 I	0.098 U	0.098 U	0.098 U	0.098 U	0.20 U	0.39 U	3.6	NA	0.098 U	0.098 U	0.098 U	
	SB-267 (2-4')	4/8/2020	2-4	4.3	0.24 U	NA	1.5 I	1.1	2.6	0.83	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	0.38 I	NA	0.12 U	0.12 U	0.12 U	
SB-268	SB-268 (0-0.5')	9/15/2020	0-0.5	0.29 I	5.5	NA	0.44 U	0.24 I	0.35 I	0.31 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.44 U	0.22 U	NA	0.11 U	0.11 U	0.11 U	
	SB-268 (0.5-2')	9/15/2020	0.5-2	0.23 I	11	NA	0.43 U	0.30 I	0.23 I	0.12 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U	0.11 U	
	SB-268 (2-4')	9/15/2020	2-4	0.12 U	2.0	NA	0.46 U	0.23 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	0.23 U	NA	0.12 U	0.12 U	0.12 U	
SB-269	SB-269 (0-0.5')	9/15/2020	0-0.5	2.2	30	NA	1.9	0.99	1.9	6.6	0.75	0.30 I	0.37 I	0.11 U	0.11 U	0.22 U	0.45 U	2.6	NA	0.11 U	0.11 U	1.2	
	SB-269 (0.5-2')	9/15/2020	0.5-2	4.9	48	NA	0.71 I	0.35 I	1.2	2.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	0.24 U	NA	0.12 U	0.12 U	1.9	
	SB-269 (2-4')	9/15/2020	2-4	1.4	2.4	NA	0.69 I	0.24 U	0.72 I	0.29 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.12 U	0.12 U	0.54	
	SB-269 (4-6)	9/15/2020	4-6	0.74	0.24 I	NA	0.46 U	0.23 I	0.39 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	0.23 U	NA	0.12 U	0.12 U	0.47	
	SB-269 (6-8)	9/15/2020	6-8	0.58	0.24 U	NA	0.48 U	0.24 U	0.26 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.51 I	0.24 U	NA	0.12 U	0.12 U	0.47 I	
	SB-269 (10-12)	9/15/2020	10-12	0.64	0.82 I	NA	0.50 I	0.24 U	0.32 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.42 I	NA	0.12 U	0.12 U	0.57	
	SB-269 (13-15)	9/15/2020	13-15	0.90	1.7	NA	0.45 U	0.22 U	0.30 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.11 U	1.2	
	SB-269 (23-25)	9/15/2020	23-25	0.90	1.6	NA	0.86 I	0.31 I	0.47 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.12 U	0.14 I	2.4	
	SB-269 (33-35)	9/15/2020	33-35	0.58	0.38 I	NA	0.87 I	0.42 I	0.44 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.58 U	0.29 U	NA	0.42 I	0.33 I	3.9	
SB-270	SB-270 (0-0.5')	9/15/2020	0-0.5	5.6	27	NA	1.8	1.2	4.7	6.7	16	4.1	4.5	1.8	1.5	0.22 U	1.2 I	460	NA	0.11 U	0.11 U	0.33 I	
	SB-270 (0.5-2')	9/15/2020	0.5-2	40	29	NA	0.97 I	0.91	9.1	14	1.6	0.18 I	0.42 I	0.11 U	0.11 U	0.21 U	23	220	NA	0.11 U	0.11 U	2.3	
	SB-270 (2-4')	9/15/2020	2-4	13	3.0	NA	3.9	2.7	8.6	1.4	0.44 I	0.20 I	0.21 I	0.13 U	0.13 U	0.26 U	2.9	24	NA	0.13 U	0.13 U	0.55	
	SB-270 (4-6)	9/15/2020	4-6	2.2	0.29 U	NA	3.6	2.5	2.3	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	0.58 U	0.90 I	NA	0.14 U	0.14 U	0.26 I	
	SB-270 (6-8)	9/15/2020	6-8	2.4	0.35 U	NA	11	7.0	5.7	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.35 U	0.70 U	0.35 U	NA	0.41 I	0.32 I	1.2	
	SB-270 (10-12)	9/15/2020	10-12	4.4	0.37 I	NA	5.7	3.6	4.6	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.64 U	0.84 I	NA	0.17 I	0.16 U	1.5	
	SB-270 (13-15)	9/15/2020	13-15	3.1	0.22 U	NA	1.6 I	1.2	2.7	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	2.9	0.22 U	NA	0.11 U	0.11 U	0.95	
SB-271	SB-270 (23-25)	9/15/2020	23-25	1.2	0.33 U	NA	2.6 I	1.6	1.6	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.33 U	1.2 I	0.33 U	NA	0.16 U	0.16 U	0.16 U	
	SB-270 (33-35)	9/15/2020	33-35	1.4	0.25 U	NA	1.5 I	0.87 I	1.0 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.59 I	0.25 U	NA	0.13 U	0.13 U	0.13 U	
	SB-271 (0-0.5')	9/15/2020	0-0.5	1.0	7.3	NA	0.53 I	0.42 I	0.46 I	0.51	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.45 U	0.22 U	NA	0.11 U	0.11 U	0.27 I	
SB-272	SB-271 (0.5-2')	9/15/2020	0.5-2	0.17 IY	0.21 UY	NA	0.43 UY	0.44 IY	0.29 IY	0.11 UY	0.11 UY	0.11 UY	0.11 UY	0.11 UY	0.11 UY	0.21 UY	0.43 UY	0.21 UY	NA	0.11 UY	0.11 UY	0.36 IY	
	SB-271 (2-4')	9/15/2020	2-4	0.14 U	0.28 U	NA	0.56 U	0.28 U	0.28 U	0.14 U	0.14 U	0											

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-265	SB-265 (0-0.5')	4/7/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA
	SB-265 (0.5-2')	4/7/2020	0.5-2	0.22 I	0.14 I	0.28 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.45 U	NA	NA	NA	NA	NA
	SB-265 (2-4')	4/7/2020	2-4	0.37 I	0.38 I	0.46	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA
SB-266	SB-266 (0-0.5')	4/7/2020	0-0.5	0.11 U	0.47	0.24 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.44 U	NA	NA	NA	NA	NA
	SB-266 (0.5-2')	4/7/2020	0.5-2	0.11 U	0.24 I	0.14 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA
	SB-266 (2-4')	4/7/2020	2-4	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.46 U	NA	NA	NA	NA	NA
SB-267	SB-267 (0-0.5')	4/8/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.43 U	NA	NA	NA	NA	NA
	SB-267 (0.5-2')	4/8/2020	0.5-2	0.098 U	0.098 U	0.098 U	NA	NA	NA	0.098 U	0.098 U	NA	NA	NA	0.39 U	NA	NA	NA	NA	NA
	SB-267 (2-4')	4/8/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.49 U	NA	NA	NA	NA	NA
SB-268	SB-268 (0-0.5')	9/15/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-268 (0.5-2')	9/15/2020	0.5-2	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-268 (2-4')	9/15/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-269	SB-269 (0-0.5')	9/15/2020	0-0.5	0.11 U	0.13 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-269 (0.5-2')	9/15/2020	0.5-2	0.92	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-269 (2-4')	9/15/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-269 (4-6)	9/15/2020	4-6	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-269 (6-8)	9/15/2020	6-8	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-269 (10-12)	9/15/2020	10-12	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-269 (13-15)	9/15/2020	13-15	0.16 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-269 (23-25)	9/15/2020	23-25	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-269 (33-35)	9/15/2020	33-35	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
SB-270	SB-270 (0-0.5')	9/15/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-270 (0.5-2')	9/15/2020	0.5-2	0.18 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-270 (2-4')	9/15/2020	2-4	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-270 (4-6)	9/15/2020	4-6	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-270 (6-8)	9/15/2020	6-8	0.17 U	0.17 U	0.17 U	NA	NA	NA	0.17 U	0.17 U	NA	NA	NA	0.17 U	NA	NA	NA	NA	NA
	SB-270 (10-12)	9/15/2020	10-12	0.18 I	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
	SB-270 (13-15)	9/15/2020	13-15	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-270 (23-25)	9/15/2020	23-25	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
SB-271	SB-271 (0-0.5')	9/15/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-271 (0.5-2')	9/15/2020	0.5-2	0.11 UY	0.11 UY	0.11 UY	NA	NA	NA	0.11 UY	0.11 UY	NA	NA	NA	0.11 UY	NA	NA	NA	NA	NA
	SB-271 (2-4')	9/15/2020	2-4	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
SB-272	SB-272 (0-0.5')	9/15/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-272 (0.5-2')	9/15/2020	0.5-2	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-272 (2-4')	9/15/2020	2-4	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-273	SB-273 (0-0.5')	9/15/2020	0-0.5	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-273 (0.5-2')	9/15/2020	0.5-2	0.16 U	0.16 U	0.16 U	NA	NA	NA	0.16 U	0.16 U	NA	NA	NA	0.16 U	NA	NA	NA	NA	NA
	SB-273 (2-3')	9/15/2020	2-3	0.10 U	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
SB-274	SB-274 (0-0.5')	9/15/2020	0-0.5	0.11 U	0.14 I	0.17 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-274 (0.5-2')	9/15/2020	0.5-2	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-274 (2-4')	9/15/2020	2-3	0.11 U	0.25 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-274 (4-6')	9/15/2020	4-6	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-274 (6-8')	9/15/2020	6-8	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-274 (10-12')	9/15/2020	10-12	0.11 U	0.12 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-274 (13-15')	9/15/2020	13-15	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
	SB-274 (23-25')	9/15/2020	23-25	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-275	SB-274 (33-35')	9/15/2020	33-35	0.15 U	0.86	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
	SB-275 (0-0.5')	9/15/2020	0-0.5	0.54	0.12 U	0.14 I	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-275 (0.5-2')	9/15/2020	0.5-2	1.1	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
SB-276	SB-275 (2-3')	9/15/2020	2-3	2.3	1.4	3.2	NA	NA	NA	0.38 I	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-276 (0-0.5')	9/14/2020	0-0.5	0.35 I	0.87	0.50	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-276 (0.5-2')	9/14/2020	0.5-2	0.44	0.14 I	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-276	SB-276 (2-4')	9/14/2020	2-4	18	0.28 U	0.28 U	NA	NA	NA	0.28 U	0.28 U	NA	NA	NA	0.28 U	NA	NA	NA	NA	NA

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDnA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	PFHxS	
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6	
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-277	SB-277 (0-0.5')	9/14/2020	0-0.5	0.59	8.0	NA	0.75 I	0.56 I	0.76 I	0.91	2.1	9.1	0.41 I	1.3	0.11 U	0.22 U	0.45 U	0.22 U	NA	0.42 I	0.20 I	2.3	
	SB-277 (0.5-2')	9/14/2020	0.5-2	0.42	110	NA	0.71 I	0.57 I	0.67 I	1.7	0.45	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.41 U	0.20 U	NA	0.15 I	0.19 I	2.6	
	SB-277 (2-4')	9/14/2020	2-4	0.32 I	54	NA	0.53 I	0.56 I	0.48 I	0.90	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.43 U	0.22 U	NA	0.23 I	0.20 I	2.1	
SB-278	SB-278 (0-0.5')	9/14/2020	0-0.5	0.55 I	45	NA	0.55 U	0.29 I	0.28 U	0.49 I	0.17 I	0.67	0.17 I	0.35 I	0.14 U	0.28 U	0.55 U	0.28 U	NA	0.14 U	0.14 U	0.67	
	SB-278 (0.5-2')	9/14/2020	0.5-2	0.44 I	15	NA	0.48 U	0.24 U	0.24 U	0.16 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.12 U	0.12 U	0.89	
	SB-278 (2-4')	9/14/2020	2-4	0.27 I	1.1	NA	0.47 U	0.23 U	0.23 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.47 U	0.23 U	NA	0.12 U	0.12 U	1.2	
SB-279	SB-279 (0-0.5')	9/14/2020	0-0.5	0.50	27	NA	0.97 I	2.1	0.24 U	0.27 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.47 U	0.24 U	NA	0.12 U	0.12 U	16	
	SB-279 (0.5-2')	9/14/2020	0.5-2	0.37 I	42	NA	0.78 I	1.7	0.30 U	0.25 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.59 U	0.30 U	NA	0.15 U	0.15 U	18	
	SB-279 (2-4')	9/14/2020	2-4	0.82	190	NA	2.5	10	0.31 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	0.61 U	0.31 U	NA	0.98	0.66	65	
SB-280	SB-280 (0-0.5')	9/14/2020	0-0.5	0.35 I	16	NA	0.46 U	0.23 U	0.24 I	0.39 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.46 U	0.23 U	NA	0.11 U	0.11 U	0.38 I	
	SB-280 (0.5-2')	9/14/2020	0.5-2	0.31 I	6.3	NA	0.51 U	0.25 U	0.25 U	0.23 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.51 U	0.25 U	NA	0.13 U	0.13 U	0.65	
	SB-280 (2-4')	9/14/2020	2-4	0.15 U	0.85 I	NA	0.60 U	0.43 I	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.60 U	0.30 U	NA	0.15 U	0.15 U	0.63	
SB-281	SB-281 (0-0.5')	9/14/2020	0-0.5	0.18 I	27	NA	0.45 U	0.29 I	0.23 I	0.47	0.26 I	2.9	0.11 U	1.1	0.11 U	0.23 U	0.45 U	0.23 U	NA	0.11 U	0.11 U	0.34 I	
	SB-281 (0.5-2')	9/14/2020	0.5-2	0.19 UY	17 Y	NA	0.76 UY	0.38 UY	0.38 UY	1.2 Y	0.19 UY	0.19 UY	0.19 UY	0.19 UY	0.19 UY	0.38 UY	0.76 UY	0.38 UY	NA	0.19 UY	0.19 UY	0.19 UY	
	SB-281 (2-4')	9/14/2020	2-4	0.23 U	8.7	NA	0.93 U	0.46 U	0.46 U	0.79 I	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.46 U	0.93 U	0.46 U	NA	0.23 U	0.23 U	0.23 U	
SB-282	SB-282 (0-0.5')	9/14/2020	0-0.5	1.1	18	NA	0.62 I	0.48 I	0.33 I	0.69	0.20 I	1.4	0.11 U	1.2	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 I	0.64	
	SB-282 (0.5-2')	9/14/2020	0.5-2	0.34 I	5.2	NA	0.43 U	0.26 I	0.22 I	0.36 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.43 U	0.21 U	NA	0.11 U	0.11 U	0.65	
	SB-282 (2-4')	9/14/2020	2-4	0.099 U	0.38 I	NA	0.40 U	0.20 U	0.20 U	0.099 U	0.099 U	0.099 U	0.10 I	0.099 U	0.099 U	0.20 U	0.40 U	0.20 U	NA	0.099 U	0.099 U	0.12 I	
SB-283	SB-283 (0-0.5')	9/14/2020	0-0.5	0.94	46	NA	0.54 I	1.4	0.31 I	0.34 I	0.11 U	0.66	0.33 I	0.11 U	0.11 U	0.22 U	0.45 U	0.22 U	NA	0.28 I	0.52	14	
	SB-283 (0.5-2')	9/14/2020	0.5-2	0.80	79	NA	1.4 I	4.2	0.40 I	0.18 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.56 U	0.28 U	NA	5.5	8.1	52	
	SB-283 (2-4')	9/14/2020	2-4	0.96	190	NA	2.7	8.9	0.61 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.57 U	0.28 U	NA	15	24	140	
SB-284	SB-284 (0-0.5')	9/14/2020	0-0.5	1.2	81	NA	0.57 I	0.87 I	0.67 I	1.1	2.2	4.3	0.88	0.23 I	0.12 U	0.25 U	0.49 U	3.2	NA	0.19 I	0.19 I	4.9	
	SB-284 (0.5-2')	9/14/2020	0.5-2	0.93	40	NA	0.46 U	0.47 I	0.52 I	1.0	1.3	0.85	0.12 U	0.12 U	0.12 U	0.23 U	0.46 U	12	NA	0.14 I	0.14 I	3.3	
SB-285	SB-285 (4-6)	9/18/2020	4-6	1.6	85	NA	1.2 I	12	0.76 I	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.55 U	0.27 U	NA	4.1	3.6	250	
	SB-285 (6-8)	9/18/2020	6-8	1.5	130	NA	0.85 I	6.1	0.52 I	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.61 U	0.30 U	NA	2.3	2.5	260	
	SB-285 (10-12)	9/18/2020	10-12	1.3	29	NA	0.48 U	4.2	0.55 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	1.6	2.4	250	
	SB-285 (13-15)	9/18/2020	13-15	1.3	23	NA	0.49 U	2.2	0.59 I	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.49 U	0.24 U	NA	0.77	1.9	240	
	SB-285 (23-25)	9/18/2020	23-25	0.19 I	11	NA	0.50 U	0.32 I	0.25 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.50 U	0.25 U	NA	0.13 U	0.13 U	12	
	SB-285 (33-35)	9/18/2020	33-35	0.12 U	3.6	NA	0.48 U	0.24 U	0.24 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.48 U	0.24 U	NA	0.12 U	0.12 U	3.1	
SB-286	SB-286 (0-0.5)	3/29/2021	0-0.5	0.21 U	27	0.43 U	0.65 I	3.4	0.21 U	0.30 I	0.71 I	7.2	0.85	5.3	0.21 U	0.21 U	0.43 U	0.30 I	NA	1.4	3.0	7.2	
SB-287	SB-287 (0-0.5)	3/29/2021	0-0.5	2.0	110	2.8	9.3	65	6.7	0.98	2.0	8.4	0.84 I	4.4	0.25 I	0.22 U	0.44 U	0.22 U	NA	45	120	310	
SB-288	SB-288 (0-0.5)	3/29/2021	0-0.5	1.6	160	2.1	2.0	5.1	0.97	1.6	1.3 I	6.1	0.66 I	2.8	0.21 U	0.21 U	0.41 U	0.21 U	NA	1.2	2.8	42	
SB-289	SB-289 (0-0.5')	2/22/2022																					

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-277	SB-277 (0-0.5')	9/14/2020	0-0.5	0.11 U	0.65	0.26 I	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-277 (0.5-2')	9/14/2020	0.5-2	0.13 I	0.10 U	0.10 U	NA	NA	NA	0.10 U	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	NA
	SB-277 (2-4')	9/14/2020	2-4	0.14 I	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
SB-278	SB-278 (0-0.5')	9/14/2020	0-0.5	0.14 U	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-278 (0.5-2')	9/14/2020	0.5-2	0.40 I	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-278 (2-4')	9/14/2020	2-4	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-279	SB-279 (0-0.5')	9/14/2020	0-0.5	0.18 I	1.3	2.4	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-279 (0.5-2')	9/14/2020	0.5-2	0.19 I	2.4	0.65	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
	SB-279 (2-4')	9/14/2020	2-4	0.49 I	0.17 I	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
SB-280	SB-280 (0-0.5')	9/14/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-280 (0.5-2')	9/14/2020	0.5-2	0.13 U	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
	SB-280 (2-4')	9/14/2020	2-4	0.15 U	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
SB-281	SB-281 (0-0.5')	9/14/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-281 (0.5-2')	9/14/2020	0.5-2	0.19 UY	0.19 UY	0.19 UY	NA	NA	NA	0.19 UY	0.19 UY	NA	NA	NA	0.19 UY	NA	NA	NA	NA	NA
	SB-281 (2-4')	9/14/2020	2-4	0.23 U	0.23 U	0.23 U	NA	NA	NA	0.23 U	0.23 U	NA	NA	NA	0.23 U	NA	NA	NA	NA	NA
SB-282	SB-282 (0-0.5')	9/14/2020	0-0.5	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-282 (0.5-2')	9/14/2020	0.5-2	0.11 U	0.11 U	0.11 U	NA	NA	NA	0.11 U	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-282 (2-4')	9/14/2020	2-4	0.099 U	0.099 U	0.099 U	NA	NA	NA	0.099 U	0.099 U	NA	NA	NA	0.099 U	NA	NA	NA	NA	NA
SB-283	SB-283 (0-0.5')	9/14/2020	0-0.5	1.4	0.39 I	4.0	NA	NA	NA	0.24 I	0.11 U	NA	NA	NA	0.11 U	NA	NA	NA	NA	NA
	SB-283 (0.5-2')	9/14/2020	0.5-2	2.0	1.5	1.8	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-283 (2-4')	9/14/2020	2-4	2.8	0.60	0.54 I	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
SB-284	SB-284 (0-0.5')	9/14/2020	0-0.5	0.32 I	2.0	7.3	NA	NA	NA	2.1	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-284 (0.5-2')	9/14/2020	0.5-2	0.24 I	3.9	1.8	NA	NA	NA	0.15 I	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-285	SB-285 (4-6)	9/18/2020	4-6	3.5	0.14 U	0.14 U	NA	NA	NA	0.14 U	0.14 U	NA	NA	NA	0.14 U	NA	NA	NA	NA	NA
	SB-285 (6-8)	9/18/2020	6-8	4.8	0.15 U	0.15 U	NA	NA	NA	0.15 U	0.15 U	NA	NA	NA	0.15 U	NA	NA	NA	NA	NA
	SB-285 (10-12)	9/18/2020	10-12	1.8	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-285 (13-15)	9/18/2020	13-15	1.5	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
	SB-285 (23-25)	9/18/2020	23-25	0.16 I	0.13 U	0.13 U	NA	NA	NA	0.13 U	0.13 U	NA	NA	NA	0.13 U	NA	NA	NA	NA	NA
SB-286	SB-286 (0-0.5')	3/29/2021	0-0.5	0.12 U	0.12 U	0.12 U	NA	NA	NA	0.12 U	0.12 U	NA	NA	NA	0.12 U	NA	NA	NA	NA	NA
SB-287	SB-286 (0-0.5')	3/29/2021	0-0.5	0.23 I	0.58	2.5	0.32 I	3.2	2.4	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	NA	NA	NA	NA	NA
SB-287	SB-287 (0-0.5')	3/29/2021	0-0.5	2.2	1.9	3.9	2.5	5.5	0.93	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	NA	NA	NA	NA	NA
SB-288	SB-288 (0-0.5')	3/29/2021	0-0.5	2.0	5.0	3.2	0.71	7.5	1.9	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	NA	NA	NA	NA	NA
SB-289	SB-289 (0-0.5')	2/22/2022	0-0.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U
	SB-289 (0.5-2')	2/22/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.87 U
	SB-289 (2-4')	2/22/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.88 U
SB-290	SB-290 (0-0.5')	2/22/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.86 U
	SB-290 (0.5-2')	2/22/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.15 I	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.86 U
	SB-290 (2-4')	2/22/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.89 U
SB-291	SB-291 (0-0.5')	2/22/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.88 U
	SB-291 (0.5-2')	2/22/2022	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.83 U
	SB-291 (2-4')	2/22/2022	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.83 U
SB-292	SB-292 (0-0.5')	2/22/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	1.0	0.12 I	0.11 U	0.11 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.90 U
	SB-292 (0.5-2')	2/22/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.85 U
	SB-292 (2-4')	2/22/2022	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U
SB-293	SB-293 (0-0.5')	2/22/2022	0-0.5	0.11 U	0.21 I	0.11 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.89 U
	SB-293 (0.5-2')	2/22/2022	0.5-2	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.47 U	0.23 U	0.23 U	0.23 U	0.23 U	0.93 U
	SB-293 (2-4')	2/22/2022	2-4	0.21 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.89 U
SB-294	SB-294 (0-0.5')	2/22/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.90 U
	SB-294 (0.5-2')	2/22/2022	0.5-2	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U
	SB-294 (2-4')	2/22/2022	2-4	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.27 U	0.53 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U
SB-295	SB-295 (0-0.5')	2/22/2022	0-0.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.96 U
	SB-295 (0.5-2')	2/22/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.88 U
	SB-295 (2-4')	2/22/2022	2-4	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	PFHxS
Class				PFCA	PFSA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	6
Provisional Residential SCTL (µg/kg)				1,300	1,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				25,000	25,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				2	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-296	SB-296 (0-0.5')	2/22/2022	0-0.5	0.38 I	1.8	NA U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.7 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 U
	SB-296 (0.5-2')	2/22/2022	0.5-2	0.21 U	0.28 I	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U
	SB-296 (2-4')	2/22/2022	2-4	0.21 U	0.21 U	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.10 U	0.10 U	0.10 U
SB-297	SB-297 (0-0.5')	2/22/2022	0-0.5	0.64 I	4.6	NA U	0.26 U	0.26 U	0.39 I	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.1 U	0.26 U	0.26 U	0.13 U	0.13 U	0.34 I
	SB-297 (0.5-2')	2/22/2022	0.5-2	0.21 U	0.60 I	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U
	SB-297 (2-4')	2/22/2022	2-4	0.22 U	0.35 I	NA U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.7 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 U
SB-298	SB-298 (0-0.5')	2/22/2022	0-0.5	0.21 U	1.7	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.11 U	0.11 U	0.12 I
	SB-298 (0.5-2')	2/22/2022	0.5-2	0.21 U	0.21 I	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.11 U	0.11 U	0.14 I
	SB-298 (2-4')	2/22/2022	2-4	0.22 U	0.22 U	NA U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.8 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 I
SB-299	SB-299 (0-0.5')	2/23/2022	0-0.5	0.21 U	0.45 I	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U
	SB-299 (0.5-2')	2/23/2022	0.5-2	0.22 U	0.50 I	NA U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.7 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 U
	SB-299 (2-4')	2/23/2022	2-4	0.21 U	0.21 U	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U
SB-300	SB-300 (0-0.5')	2/23/2022	0-0.5	0.24 U	2.1	NA U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.25 I	0.24 U	0.24 U	1.9 U	0.24 U	0.24 U	0.12 U	0.12 U	0.18 I
	SB-300 (0.5-2')	2/23/2022	0.5-2	0.21 U	0.96	NA U	0.21 U	0.21 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.7 U	0.21 U	0.21 U	0.11 U	0.11 U	0.11 U
	SB-300 (2-4')	2/23/2022	2-4	0.22 U	0.48 I	NA U	0.22 U	0.22 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	1.7 U	0.22 U	0.22 U	0.11 U	0.11 U	0.11 U
SB-301	SB-301 (0-0.5')	2/23/2022	0-0.5	10	41	NA	13	31	4.8	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.1 U	0.26 U	17	26	13	43
	SB-301 (0.5-2')	2/23/2022	0.5-2	27	2.4	NA	10	34	8.9	0.22 U	0.68 I	0.46 I	0.22 U	0.22 U	0.22 U	0.22 U	1.9 I	7.9	11	18	16	0.72
SB-302	SB-302 (0-0.5')	2/23/2022	0-0.5	0.38 I	4.8	NA I	0.48 I	0.52 I	0.23 U	0.23 U	0.45 U	0.23 I	0.23 U	0.23 U	0.23 U	0.23 U	1.8 U	0.23 U	0.23 U	0.59	0.46	2.0
	SB-302 (0.5-2')	2/23/2022	0.5-2	0.30 U	1.8	NA I	0.37 I	0.69 I	0.30 U	0.30 U	0.61 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	2.4 U	0.30 U	0.30 U	0.49 I	0.37 I	1.6
	SB-302 (2-4')	2/23/2022	2-4	0.29 U	0.29 U	NA U	0.29 U	0.29 U	0.29 U	0.29 U	0.57 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	2.3 U	0.29 U	0.97 I	1.6	1.1	2.4
	SB-302 (4-6')	2/23/2022	4-6	0.32 U	0.32 U	NA U	0.32 U	0.32 U	0.32 U	0.32 U	0.64 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	2.5 U	0.32 U	1.4	2.4	1.4	2.8
	SB-302 (6-7')	2/23/2022	6-8	0.30 U	0.34 I	NA U	0.30 U	0.30 U	0.30 U	0.30 U	0.59 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	2.4 U	0.30 U	3.8 J	7.2	3.2	2.4
SB-303	SB-303 (0-0.5')	2/23/2022	0-0.5	0.23 U	4.5	NA I	0.39 I	0.69 I	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.8 U	0.23 U	0.23 U	0.29 I	0.28 I	1.6
	SB-303 (0.5-2')	2/23/2022	0.5-2	0.24 U	1.3	NA U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.9 U	0.24 U	0.24 U	0.12 U	0.12 U	0.38 I
	SB-303 (2-4')	2/23/2022	2-4	0.27 U	0.27 U	NA U	0.27 U	0.27 U	0.27 U	0.27 U	0.55 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.2 U	0.27 U	0.27 U	0.27 I	0.18 I	0.75
	SB-303 (4-6')	2/23/2022	4-6	0.28 U	0.28 U	NA U	0.28 U	0.28 U	0.28 U	0.28 U	0.57 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	2.3 U	0.28 U	0.28 U	0.48 I	0.32 I	1.1
	SB-303 (6-8')	2/23/2022	6-8	0.29 U	0.29 U	NA U	0.29 U	0.29 U	0.29 U	0.29 U	0.57 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	2.3 U	0.29 U	0.29 U	0.71	0.34 I	1.2
SB-304	SB-304 (0-0.5')	2/23/2022	0-0.5	0.26 U	3.4	NA I	0.68 I	0.62 I	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.0 U	0.26 U	1.1	0.71	0.26 I	0.84
	SB-304 (0.5-2')	2/23/2022	0.5-2	0.27 U	4.6	NA I	0.54 I	0.66 I	0.27 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.1 U	0.27 U	0.59 I	0.47 I	0.24 I	0.66
	SB-304 (2-4')	2/23/2022	2-4	0.30 U	6.7	NA I	0.45 I	0.30 U	0.30 U	0.30 U	0.61 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	2.4 U	0.30 U	0.33 I	0.35 I	0.15 U	0.42 I
	SB-304 (4-6')	2/23/2022	4-6	0.29 U	8.3	NA I	0.29 U	0.29 U	0.29 U	0.29 U	0.59 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	2.4 U	0.29 U	0.29 U	0.26 I	0.15 U	0.31 I
SB-305	SB-305 (0-0.5')	2/24/2022	0-0.5	0.21 U	8.1	NA U	0.21 U															

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional Residential SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Industrial SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Provisional Leachability SCTL (µg/kg)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-296	SB-296 (0-0.5')	2/22/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.86 U
	SB-296 (0.5-2')	2/22/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U
	SB-296 (2-4')	2/22/2022	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.83 U
SB-297	SB-297 (0-0.5')	2/22/2022	0-0.5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
	SB-297 (0.5-2')	2/22/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.85 U
	SB-297 (2-4')	2/22/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.87 U
SB-298	SB-298 (0-0.5')	2/22/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U
	SB-298 (0.5-2')	2/22/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.85 U
	SB-298 (2-4')	2/22/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.88 U
SB-299	SB-299 (0-0.5')	2/23/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U
	SB-299 (0.5-2')	2/23/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.86 U
	SB-299 (2-4')	2/23/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.85 U
SB-300	SB-300 (0-0.5')	2/23/2022	0-0.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.96 U
	SB-300 (0.5-2')	2/23/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.86 U
	SB-300 (2-4')	2/23/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.43 U	0.22 U	0.22 U	0.22 U	0.22 U	0.87 U
SB-301	SB-301 (0-0.5')	2/23/2022	0-0.5	1.3	0.18 I	0.13 U	6.6	11	0.75	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
	SB-301 (0.5-2')	2/23/2022	0.5-2	5.9	7.7	4.3	12	2.8	0.89	1.7	1.4	0.11 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.89 U
SB-302	SB-302 (0-0.5')	2/23/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.24 I	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.90 U
	SB-302 (0.5-2')	2/23/2022	0.5-2	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.30 U	0.61 U	0.30 U	0.30 U	0.30 U	0.30 U	1.2 U
	SB-302 (2-4')	2/23/2022	2-4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	0.29 U	0.57 U	0.29 U	0.29 U	0.29 U	0.29 U	1.1 U
	SB-302 (4-6')	2/23/2022	4-6	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.32 U	0.64 U	0.32 U	0.32 U	0.32 U	0.32 U	1.3 U
	SB-302 (6-7')	2/23/2022	6-8	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.30 U	0.59 U	0.30 U	0.30 U	0.30 U	0.30 U	1.2 U
SB-303	SB-303 (0-0.5')	2/23/2022	0-0.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U
	SB-303 (0.5-2')	2/23/2022	0.5-2	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.95 U
	SB-303 (2-4')	2/23/2022	2-4	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.27 U	0.27 U	0.55 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U
	SB-303 (4-6')	2/23/2022	4-6	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.28 U	0.57 U	0.28 U	0.28 U	0.28 U	0.28 U	1.1 U
	SB-303 (6-8')	2/23/2022	6-8	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.29 U	0.29 U	0.57 U	0.29 U	0.29 U	0.29 U	0.29 U	1.1 U
SB-304	SB-304 (0-0.5')	2/23/2022	0-0.5	0.13 U	0.13 U	0.13 U	0.29 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
	SB-304 (0.5-2')	2/23/2022	0.5-2	0.13 U	0.13 U	0.13 U	0.15 I	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U
	SB-304 (2-4')	2/23/2022	2-4	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.30 U	0.61 U	0.30 U	0.30 U	0.30 U	0.30 U	1.2 U
	SB-304 (4-6')	2/23/2022	4-6	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.29 U	0.29 U	0.59 U	0.29 U	0.29 U	0.29 U	0.29 U	1.2 U
SB-305	SB-305 (0-0.5')	2/24/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.85 U
	SB-305 (0.5-2')	2/24/2022	0.5-2	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U
	SB-305 (2-4')	2/24/2022	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.83 U
	SB-305 (4-6')	2/24/2022	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.85 U
	SB-305 (6-8')	2/24/2022	6-8	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.96 U
SB-306	SB-306 (0-0.5')	2/24/2022	0-0.5	0.11 U	0.24 I	0.17 I	0.35 I	0.20 I	1.2	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.45 U	0.23 U	0.23 U	0.23 U	0.23 U	0.91 U
	SB-306 (0.5-2')	2/24/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.19 I	0.35 I	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.43 U	0.21 U	0.21 U	0.21 U	0.21 U	0.85 U
	SB-306 (2-4')	2/24/2022	2-4	0.10 U	0.10 U	0.10 U	0.10 U	0.17 I	0.16 I	0.10 U	0.10 U	0.10 U	0.21 U	0.21 U	0.41 U	0.21 U	0.21 U	0.21 U	0.21 U	0.82 U
	SB-306 (4-6')	2/24/2022	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.18 I	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.42 U	0.21 U	0.21 U	0.21 U	0.21 U	0.84 U
	SB-306 (6-8')	2/24/2022	6-8	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
SB-307	SB-307 (0-0.5')	2/24/2022	0-0.5	0.26 I	0.50 I	3.0	0.51 I	3.5	15	0.26 I	0.13 U	0.13 U	0.26 U	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
	SB-307 (0.5-2')	2/24/2022	0.5-2	0.13 U	0.23 I	0.13 U	0.30 I	6.5	11	0.13 U	0.13 U	0.13 U	0.25 U	0.25 U	0.50 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U
	SB-307 (2-4')	2/24/2022	2-4	0.13 U	0.13 U	0.13 U	0.57	6.1	7.7	0.13 U	0.13 U	0.13 U	0.25 U	0.25 U	0.51 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U
	SB-307 (4-6')	2/24/2022	4-6	0.18 I	0.12 U	0.12 U	0.54	6.8	9.8	0.12 U	0.12 U	0.12 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.97 U
	SB-307 (6-8')	2/24/2022	6-8	0.13 U	0.13 U	0.13 U	0.58	3.1	1.9	0.48 I	0.13 U	0.13 U	0.26 U	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
SB-308	SB-308 (0-0.5')	2/23/2022	0-0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.23 U	0.23 U	0.46 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U
	SB-308 (0.5-2')	2/23/2022	0.5-2	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.89 U
	SB-308 (2-4')	2/23/2022	2-4	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.90 U
	SB-308 (4-6')	2/23/2022	4-6	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.45 U	0.22 U	0.22 U	0.22 U	0.22 U	0.89 U
	SB-308 (6-8')	2/23/2022	6-8	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.22 U	0.44 U	0.22 U	0.22 U	0.22 U	0.22 U	0.88 U
SB-309	SB-309 (0-0.5')	2/24/2022	0-0.5	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.27 U	0.27 U	0.54 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U
	SB-309 (0.5-2')	2/24/2022	0.5-2	0.13 U	0.24 I	0.25 I	0.13 U	0.50 I	0.38 I	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.51 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
	SB-309 (2-4')	2/24/2022	2-4	0.17 I	0.22 I	0.14 I	0.13 U	1.1	1.5	0.13 U	0.13 U	0.13 U	0.26 U	0.26 U	0.52 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U

TABLE 4: SOIL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

- Notes:**
- 1. PFAS indicated per- and polyfluoroalkyl substances,
 - 2. Results and screening criteria are presented in micrograms per kilogram (µg/kg).
 - 3. ft BLS indicates feet below land surface.
 - 4. U indicates that the compound was analyzed for but not detected above the laboratory method detection limit (MDL) shown.
 - 5. I indicates the result is between the laboratory MDL and the practical quantitation limit.
 - 6. J indicates an estimated value and/or the analysis did not meet established quality control criteria.
 - 7. J3 indicates an estimated value; value may not be accurate. Spike recovery or Relative Percent Difference outside of criteria.
 - 8. L indicates off-scale high. Actual value is known to be greater than the value given.
 - 9. Q indicates sample held beyond the accepted holding time.
 - 10. Y indicates the laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
 - 11. Yellow shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection (FDEP) Provisional Residential Soil Cleanup Target Level (SCTL).
 - 12. Orange shaded, bold text indicates an exceedance of the FDEP Provisional Industrial SCTL.
 - 13. Grey shaded, bold text indicates an exceedance of the FDEP Provisional Leachability SCTL.
 - 14. * indicates saturated soil sample; results not compared to FDEP Provisional SCTLs.
 - 15. -- indicates no applicable cleanup target level.
 - 16. NA indicates constituent was not analyzed for.
 - 17. PFCA indicates perfluoroalkyl carboxylic acids.
 - 18. PFSA indicates perfluorosulfonic acids.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelomer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelomer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFOA + PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTeA	PFTriA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS
Class				PFCA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional GCTL				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DW-1 (FACID#429101718)	CCDW-1(90-95)	8/5/2019	90 to 95	2.1 I	7.2 I	9.3	NA	1.4 I	0.90 I	1.2 I	0.93 U	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	3.7 UJ	1.9 U	NA	2.3	0.69 I
	CCDW-1(90-95)	6/9/2020		1.3 I	4.7 I	6.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	1.2 I	0.40 U
MW-3 (FACID#429101718)	CCMW-3(60-80)	8/5/2019	60 to 80	1.7 I	4.7 I	6.4	NA	2.1 I	2.6	1.6	0.93 U	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	3.7 UJ	1.9 U	NA	2.2	1.8
	CCMW-3(60-80)	6/9/2020		1.0 U	3.9 I	4.4	NA	10 I	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	1.3 I	0.85 I
DEPMW-1 (100-120')	DEPMW-1(100-120)	8/6/2019	100 to 120	0.93 U	1.9 U	2.8	NA	0.93 U	0.37 U	0.37 U	0.93 U	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	8.8 IJ	1.9 U	NA	0.37 U	0.37 U
	DEPMW-1(100-120)	11/19/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-1(100-120)	6/10/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-1 (100-120)	3/31/2021		2.0 U	2.0 U	4.0	NA	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
DEPMW-2 (35-55')	DEPMW-2(35-55)	8/6/2019	35 to 55	5.8	1.9 U	7.7	NA	5.2	9.5	3.4	0.93 U	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	3.7 UJ	1.9 U	NA	31	26
	DEPMW-2 (35-55)	11/19/2019		3.7 I	5.6 I	9.3	NA	2.3 I	4.7	2.0	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	27	22
	DEPMW-2(35-55)	6/10/2020		17		82	NA	17	32	8.5	2.2 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	130	91
	DEPMW-2 (35-55)	3/31/2021		59	100	159	NA	48	97	26	8.6	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	25	2.0 U	NA	200	180
	DEPMW-2 (35-55')	2/21/2022		47	130	177	23	37	61	17	7.9 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	43	150	160
	DEPMW-2 (35-55') DUP	2/21/2022		49	140	189	23	41	56	18	6.8 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	40	160	170
DEPMW-3 (100-120')	DEPMW-3(100-120)	8/7/2019	100 to 120	0.91 U	1.8 U	2.7	NA	0.91 U	0.36 U	0.36 U	0.91 U	0.91 U	0.91 U	0.91 U	0.36 U	0.36 U	1.8 U	3.6 U	1.8 U	NA	0.36 U	0.36 U
	DEPMW-3(100-120)	11/20/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 UJ	4.0 UJ	2.0 UJ	NA	0.40 U	0.40 U
	DEPMW-3(100-120)	6/10/2020		1.0 U	2.0 U	3.0	NA	11 I	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-3 (100-120)	3/31/2021		2.0 U	2.0 U	4.0	NA	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
DEPMW-4 (100-120')	DEPMW-4(100-120)	8/5/2019	100 to 120	0.89 U	5.2 I	6.1	NA	0.89 U	1.1 I	0.36 U	0.89 U	0.89 U	0.89 U	0.89 U	0.36 UJ	0.36 U	1.8 UJ	4.1 IJ	1.8 UJ	NA	0.79 I	1.1 I
	DEPMW-4(100-120)	11/19/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-4(100-120)	6/9/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-4 (100-120)	3/30/2021		2.0 U	2.0 U	4.0	NA	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
DEPMW-5 (50-70')	DEPMW-5(50-70)	8/5/2019	50 to 70	24	300	324	NA	18	55	10	2.2 I	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	21 J	1.9 U	NA	57	67
	DEPMW-5 (50-70)	11/19/2019		31	400	431	NA	25	94	16	4.2	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	18	2.0 U	NA	89	86
	DEPMW-5(50-70)	6/9/2020		11	200	211	NA	13 I	36	7.5 I	1.5 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	11 I	2.0 U	NA	43	35
	DEPMW-5 (50-70)	3/30/2021		23	330	353	17	30	78	13	3.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	17	2.0 U	NA	61	62
DEPMW-6 (100-120')	DEPMW-6(100-120)	8/6/2019	100 to 120	0.91 U	6.5 I	7.4	NA	0.91 U	0.36 U	0.36 U	0.91 U	0.91 U	0.91 U	0.91 U	0.36 U	0.36 U	1.8 U	3.6 U	1.8 U	NA	0.36 U	0.36 U
	DEPMW-6	11/19/2019		1.0 U	6.7 I	7.7	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-6(100-120)	6/8/2020		1.0 U	5.7 I	6.2	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-6 (100-120)	4/1/2021		2.0 U	9.2	11	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.59 I	0.40 U
	DEPMW-6 (100-120')	2/21/2022		2.0 U	8.1	10	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.59 I	0.58 I
DEPMW-7 (30-50')	DEPMW-7(30-50)	8/6/2019	30 to 50	0.91 U	1.8 U	2.7	NA	0.91 U	0.36 U	0.36 U	0.91 U	0.91 U	0.91 U	0.91 U	0.36 U	0.36 U	1.8 U	10 I	1.8 U	NA	0.36 U	0.36 U
	DEPMW-7	11/19/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-7(30-50)	6/8/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-7 (30-50)	3/31/2021		2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
DEPMW-8 (100-120')	DEPMW-8(100-120)	8/7/2019	100 to 120	0.91 U	1.8 U	2.7	NA	0.91 U	0.38 I	0.36 U	0.91 U	0.91 U	0.91 U	0.91 U	0.36 U	0.36 U	1.8 U	3.6 U	1.8 U	NA	0.84 I	0.36 U
	DEPMW-8(100-120)	11/20/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 UJ	4.0 U	2.0 UJ	NA	1.3 I	0.40 U
	DEPMW-8(100-120)	6/10/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.78 I	0.40 U
	DEPMW-8 (100-120)	3/30/2021		2.0 U	2.0 U	4.0	6.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	1.6 I	0.40 U
DEPMW-9 (40-60')	DEPMW-9(40-60)	8/7/2019	40 to 60	8.8	2.2 I	11	NA	13	13	11	0.93 U	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	4.6 I	1.9 U	NA	35	0.58 I
	DEPMW-9(40-60)	11/20/2019		11	2.0 U	13	NA	17	16	14	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 UJ	4.0 U	2.0 UJ	NA	36	0.68 I
	DEPMW-9(40-60)	6/10/2020		5.6	2.0 U	6.6	NA	11 I	11	9.8	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	27	0.40 U
	DEPMW-9 (40-60)	3/30/2021		8.7	2.0 U	11	6.3 I	16	16	11	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	28	0.62 I
	DEPMW-9 (40-60')	2/21/2022		10	3.5 I	14	7.8 I	22	16	15	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	25	0.80 I
DEPMW-10 (100-120')	DEPMW-10(100-120)	8/6/2019	100 to 120	0.93 U	1.9 U	2.8	NA	0.93 U	0.37 U	0.37 U	0.93 U	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	3.7 U	1.9 U	NA	0.37 U	0.37 U
	DEPMW-10	11/19/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.46 I	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-10(100-120)	6/8/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-10 (100-120)	3/31/2021		2.0 U	2.0 U	4.0	4.8 I	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional GCTL				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DW-1 (FACID#429101718)	CCDW-1(90-95)	8/5/2019	90 to 95	3.7	0.37 U	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CCDW-1(90-95)	6/9/2020		2.9	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3 (FACID#429101718)	CCMW-3(60-80)	8/5/2019	60 to 80	3.7	0.37 U	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CCMW-3(60-80)	6/9/2020		4.6	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-1 (100-120')	DEPMW-1(100-120)	8/6/2019	100 to 120	0.37 U	0.37 U	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-1(100-120)	11/19/2019		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-1(100-120)	6/10/2020		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-1 (100-120)	3/31/2021		0.80 U	0.80 U	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-2 (35-55')	DEPMW-2(35-55)	8/6/2019	35 to 55	100	0.88 I	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-2 (35-55)	11/19/2019		99	1.1 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-2(35-55)	6/10/2020		630	3.4	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-2 (35-55)	3/31/2021		850	15	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-2 (35-55')	2/21/2022		580	8.6	0.40 U	0.40 U	150	130	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	DEPMW-2 (35-55') DUP	2/21/2022		580	8.4	0.40 U	0.40 U	170	150	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
DEPMW-3 (100-120')	DEPMW-3(100-120)	8/7/2019	100 to 120	0.51 I	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-3(100-120)	11/20/2019		0.79 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-3(100-120)	6/10/2020		0.67 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-3 (100-120)	3/31/2021		0.94 I	0.80 U	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-4 (100-120')	DEPMW-4(100-120)	8/5/2019	100 to 120	12	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-4(100-120)	11/19/2019		1.4 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-4(100-120)	6/9/2020		1.7	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-4 (100-120)	3/30/2021		1.4 I	0.80 U	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-5 (50-70')	DEPMW-5(50-70)	8/5/2019	50 to 70	670	16	0.40 I	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-5 (50-70)	11/19/2019		770	26	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-5(50-70)	6/9/2020		610	5.7	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-5 (50-70)	3/30/2021		640	16	0.40 U	0.40 U	87	220	2.0	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
DEPMW-6 (100-120')	DEPMW-6(100-120)	8/6/2019	100 to 120	0.86 I	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-6	11/19/2019		0.79 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-6(100-120)	6/8/2020		0.79 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-6 (100-120)	4/1/2021		1.2 I	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
	DEPMW-6 (100-120')	2/21/2022		1.4 I	0.80 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
DEPMW-7 (30-50')	DEPMW-7(30-50)	8/6/2019	30 to 50	1.1 I	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-7	11/19/2019		1.1 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-7(30-50)	6/8/2020		1.4 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-7 (30-50)	3/31/2021		1.7 I	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
DEPMW-8 (100-120')	DEPMW-8(100-120)	8/7/2019	100 to 120	0.36 U	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-8(100-120)	11/20/2019		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-8(100-120)	6/10/2020		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-8 (100-120)	3/30/2021		0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
DEPMW-9 (40-60')	DEPMW-9(40-60)	8/7/2019	40 to 60	3.7	0.37 U	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-9(40-60)	11/20/2019		4.7	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-9(40-60)	6/10/2020		4.4	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-9 (40-60)	3/30/2021		4.4	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
	DEPMW-9 (40-60')	2/21/2022		5.2	0.80 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
DEPMW-10 (100-120')	DEPMW-10(100-120)	8/6/2019	100 to 120	0.37 U	0.37 U	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-10	11/19/2019		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-10(100-120)	6/8/2020		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-10 (100-120)	3/31/2021		0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFOA + PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTeA	PFTriA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS
Class				PFCA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional GCTL				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DEPMW-11 (30-50')	DEPMW-11(30-50)	8/6/2019	30 to 50	0.96 U	1.9 U	2.9	NA	0.96 U	0.38 U	0.38 U	0.96 U	0.96 U	0.96 U	0.96 U	0.38 U	0.38 U	1.9 U	7.0 I	1.9 U	NA	0.38 U	0.38 U
	DEPMW-11	11/19/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-11(30-50)	6/8/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.4 I	2.0 U	NA	0.40 U	0.40 U
	DEPMW-11 (30-50)	3/31/2021		2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.66 I	0.40 U
DEPMW-12 (100-120')	DEPMW-12(100-120)	8/7/2019	100 to 120	0.89 U	1.8 U	2.7	NA	0.89 U	0.36 U	0.36 U	0.89 U	0.89 U	0.89 U	0.89 U	0.36 U	0.36 U	1.8 U	3.6 U	1.8 U	NA	0.36 U	0.36 U
	DEPMW-12(40-60)	11/20/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 UJ	4.0 U	2.0 UJ	NA	0.40 U	0.40 U
	DEPMW-12(100-120)	6/9/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-12 (100-120)	3/31/2021		2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
DEPMW-13 (40-60')	DEPMW-13(40-60)	8/7/2019	40 to 60	0.89 U	1.8 U	2.7	NA	0.89 U	0.36 U	0.36 U	0.89 U	0.89 U	0.89 U	0.89 U	0.36 U	0.36 U	1.8 U	3.6 UJ	1.8 U	NA	0.36 U	0.36 U
	DEPMW-13(100-120)	11/20/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 UJ	4.0 U	2.0 UJ	NA	0.40 U	0.40 U
	DEPMW-13(40-60)	6/9/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-13 (40-60)	3/31/2021		2.0 U	2.0 U	4.0	NA	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	0.43 I	0.40 U
DEPMW-14 (100-120')	DEPMW-14(100-120)	8/7/2019	100 to 120	0.89 U	1.8 U	2.7	NA	2.1 I	0.76 I	0.36 U	0.89 U	0.89 U	0.89 U	0.89 U	0.36 U	0.36 U	1.8 U	3.6 UJ	1.8 U	NA	0.43 I	0.37 I
	DEPMW-14	11/19/2019		1.0 U	2.0 U	3.0	NA	4.6	2.1	0.40 I	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.52 I	0.48 I
	DEPMW-14(100-120)	6/11/2020		1.0 U	2.0 U	3.0	NA	21	12	2.9 I	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.80 I	0.66 I
	DEPMW-14 (100-120)	3/31/2021		2.0 U	2.2 I	4.2	NA	92	53	12	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	3.1	2.6
DEPMW-15 (35-55')	DEPMW-15(35-55)	8/7/2019	35 to 55	16	2.6 I	19	NA	180	190	100	0.89 U	0.89 U	0.89 U	0.89 U	0.36 U	0.36 U	1.8 U	5.9 IJ	1.8 U	NA	28	24
	DEPMW-15	11/19/2019		34	8.2	42	NA	240	240	190	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	36	31
	DEPMW-15(35-55)	6/11/2020		19	4.2 I	23	NA	290	270	150	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	26	20
	DEPMW-15 (35-55)	3/31/2021		31	5.1 I	36	NA	480	360	230	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	41	33
	DEPMW-15 (35-55')	2/21/2022		33	9.2	42	290	740	400	360	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	11 I	34	28
DEPMW-16 (30-50')	DEPMW-16(30-50)	8/8/2019	30 to 50	74	2,800	2,874	NA	92	210	35	2.7 I	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	47 J	1.9 U	NA	990	780
	DEPMW-16(30-50) DUP			78	2,900	2,978	NA	94	200	34	3.4 I	0.93 U	0.93 U	0.93 U	0.37 U	0.37 U	1.9 U	47 J	1.9 U	NA	1,000	840
	DEPMW-16	11/20/2019		120	3,500	3,620	NA	230	460	70	5.1	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	27	2.0 U	NA	1,900	1,900
	DEPMW-16 DUP			120	3,400	3,520	NA	260	510	82	5.9	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	28	2.0 U	NA	1,900	1,900
	DEPMW-16(30-50)	6/11/2020		89	3,600	3,689	NA	140	340	60	3.4 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	30	2.0 U	NA	1,300	1,400
	DEPMW-16(30-50) DUP	6/11/2020		97	3,700	3,797	NA	130	360	65	3.4 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	36	2.0 U	NA	1,300	1,400
	DEPMW-16 (30-50)	3/31/2021		140	3,500	3,640	190	240	460	81	4.9 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	32	2.0 U	NA	1,500	1,500
	DEPMW-16 (30-50) DUP	3/31/2021		160	3,500	3,660	190	230	490	86	5.6 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	36	2.0 U	NA	1,500	1,500
DEPMW-17 (100-120')	DEPMW-17(100-120)	8/8/2019	100 to 120	36	1,100	1,136	NA	43	95	14	0.95 I	0.89 U	0.89 U	0.89 U	0.36 U	0.36 U	1.8 U	40 J	1.8 U	NA	190	190
	DEPMW-17(100-120) DUP			43	1,200	1,243	NA	45	98	16	0.92 I	0.89 U	0.89 U	0.89 U	0.36 U	0.36 U	1.8 U	39 J	1.8 U	NA	190	190
	DEPMW-17	11/20/2019		67	2,500	2,567	NA	54	170	28	2.2 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	110	2.0 U	NA	370	320
	DEPMW-17(100-120)	6/11/2020		47	1,700	1,747	NA	73	160	28	1.8 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	43	2.0 U	NA	150	160
	DEPMW-17(100-120)DUP	6/11/2020		42	1,700	1,742	NA	71	140	29	1.8 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	39	2.0 U	NA	160	160
	DEPMW-17 (100-120)	3/31/2021		66	2,300	2,366	74	120	250	44	3.0 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	58	2.0 U	NA	320	240
	DEPMW-17 (100-120) DUP	3/31/2021		72	2,700	2,772	87	140	290	46	4.0 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	65	2.0 U	NA	380	280
DEPMW-18 (100-120')	DEPMW-18	11/11/2019	100 to 120	1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U
	DEPMW-18	11/20/2019		1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	5.8 I	2.0 U	NA	0.40 U	0.40 U
	DEPMW-18 DUP			1.0 U	2.0 U	3.0	NA	1.0 U	0.40 U	0.40 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	5.6 I	2.0 U	NA	0.40 U	0.40 U
	DEPMW-18(100-120)	6/8/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.54 I	0.40 U
	DEPMW-18 (100-120)	3/30/2021		2.0 U	2.0 U	4.0	NA	2.0 U	2.0 U	2.0 U	2.0 U											

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional GCTL				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DEPMW-11 (30-50')	DEPMW-11(30-50)	8/6/2019	30 to 50	0.38 U	0.38 U	0.38 U	0.38 U	NA	NA	NA	0.38 U	0.38 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-11	11/19/2019		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-11(30-50)	6/8/2020		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-11 (30-50)	3/31/2021		0.80 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
DEPMW-12 (100-120')	DEPMW-12(100-120)	8/7/2019	100 to 120	0.36 U	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-12(40-60)	11/20/2019		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-12(100-120)	6/9/2020		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-12 (100-120)	3/31/2021		0.80 U	0.80 U	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-13 (40-60')	DEPMW-13(40-60)	8/7/2019	40 to 60	0.36 U	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-13(100-120)	11/20/2019		0.42 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-13(40-60)	6/9/2020		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-13 (40-60)	3/31/2021		0.80 U	0.80 U	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-14 (100-120')	DEPMW-14(100-120)	8/7/2019	100 to 120	2.0	0.36 U	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-14	11/19/2019		2.9	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-14(100-120)	6/11/2020		5.0	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-14 (100-120)	3/31/2021		12	0.80 U	0.40 U	0.40 U	NA	NA	NA	1.3 I	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-15 (35-55')	DEPMW-15(35-55)	8/7/2019	35 to 55	140	0.66 I	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-15	11/19/2019		310	1.5 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-15(35-55)	6/11/2020		220	1.1 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-15 (35-55)	3/31/2021		260	0.80 U	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-15 (35-55')	2/21/2022		210	0.80 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
DEPMW-16 (30-50')	DEPMW-16(30-50)	8/8/2019	30 to 50	3,000	130	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-16(30-50) DUP			3,100	130	0.37 U	0.37 U	NA	NA	NA	0.37 U	0.37 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-16	11/20/2019		5,900	280	0.65 I	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-16 DUP			5,900	280	0.60 I	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-16(30-50)	6/11/2020		6,200	71	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-16(30-50) DUP	6/11/2020		6,400	77	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-16 (30-50)	3/31/2021		5,400	130	0.40 U	0.40 U	950	1,400	5.4	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
	DEPMW-16 (30-50) DUP	3/31/2021		5,600	130	0.40 U	0.40 U	950	1,500	5.4	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
DEPMW-17 (100-120')	DEPMW-17(100-120)	8/8/2019	100 to 120	840	56	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-17(100-120) DUP			860	57	0.36 U	0.36 U	NA	NA	NA	0.36 U	0.36 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-17	11/20/2019		1,500	140	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-17(100-120)	6/11/2020		970	50	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-17(100-120)DUP	6/11/2020		1,000	50	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-17 (100-120)	3/31/2021		1,600	85	0.40 U	0.40 U	750	1,400	6.6	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-17 (100-120) DUP	3/31/2021		2,000	100	0.40 U	0.40 U	760	1,400	7.5	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
DEPMW-18 (100-120')	DEPMW-18	11/11/2019	100 to 120	0.68 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-18	11/20/2019		0.65 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-18 DUP			0.62 I	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-18(100-120)	6/8/2020		2.3	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-18 (100-120)	3/30/2021		4.3	0.80 U	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPMW-19 (45-65')	DEPMW-19	11/11/2019	45 to 65	71	1.3 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-19 DUP	11/19/2019		80	1.5 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-19			110	2.3	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-19 DUP			130	2.6	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-19(55-75)	6/8/2020		180	1.6	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-19 (45-65)	3/30/2021		100	1.5 I	0.40 U	0.40 U	3.5	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA
	DEPMW-19 (45-65')	2/21/2022		43	0.80 U	0.40 U	0.40 U	0.88 I	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
DEPMW-20 (30-50')	DEPMW-20	11/12/2019	30 to 50	6,400	320	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-20 DUP	11/20/2019		6,600	320	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-20			6,100	330	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-20 DUP	6,100		300	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-20(35-55)	6/10/2020		8,300	210	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DEPMW-20 (30-50)	3/31/2021		7,700	270	0.40 U	0.40 U	1,800	3,400	110	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	NA	NA	NA	NA	NA

TABLE 5: GROUNDWATER MONITORING WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Notes:

1. PFAS indicates per- and polyfluoroalkyl substances.
2. Results and screening critieria are presented in nanograms per liter (ng/L).
3. Sample depths are presented in feet below land surface (ft BLS).
3. PFOA+PFOS indicates the summation of PFOA and PFOS concentrations.
4. U indicates that the compound was analyzed for but not detected above the laboratory method detection limit (MDL) shown.
5. I indicates the result is between the laboratory MDL and the practical quantitation limit.
6. J indicates estimated value and/or the analysis did not meet the quality control criteria.
7. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection (FDEP) Provisional Groundwater Cleanup Target Level (GCTL).
8. -- indicates no applicable cleanup target level.
9. NA indicates constituent was not analyzed for.
10. N/A indicates the information listed is not applicable.
11. PFCA indicates perfluoroalkyl carboxylic acids.
12. PFSA indicates perfluorosulfonic acids.
13. The screened intervals labeled on the Field Sample ID's for monitoring well locations DEPMW-19 and DEPMW-20 in June 2020 were labeled incorrectly. The Field Sample ID from June 2020 presented in the table reflects the incorrect label. However, the correct screened intervals for these wells are listed in the Sample Interval column and the Sample Location column.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelemer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelemer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

TABLE 6: SUPPLY WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFOA	PFOS	PFOA + PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPrS	PFBS	PFPeS	
Class				PFCA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA	
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5	
Provisional GCTL				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CC Supply Well	CC WELL	11/13/2018	NA	6.6	180	187	NA	NA	6.1	2.4	0.93 U	1.5 U	1.9 U	0.93 U	0.37 U	0.07 U	NA	NA	NA	NA	14	NA	
	CC Supply Well	6/11/2020		4.6	150	155	NA	4.0 U	7.1 I	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	12	15	
	CC Supply Well	3/29/2021		8.1	210	218	NA	2.5 I	8.6	2.4 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	16	23	
FSFC Fire Well	Fire Supression Well	9/10/2018	NA	14	280	294	NA	14	41	7.3	1.6	0.25 U	0.89 U	0.45 U	1.1 U	0.23 U	NA	NA	NA	NA	36	NA	
	FSFC Fire Well	6/11/2020		7.3	340	347	NA	12 I	22	4.9 I	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	35	32	
	FSFC Fire Well	3/30/2021		11	350	361	NA	11	36	6.6 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	36	37	
FSFC Supply Well (Pre-Filter)	INSIDE	11/14/2018	118 to 170	7.0	250	257	NA	NA	11	3.2	1.4 I	1.4 U	1.8 U	0.88 U	0.35 U	0.071 U	NA	NA	NA	NA	14	NA	
	FSFC Supply Well (Pre-Filter)	6/11/2020		55	2,300	2,355	NA	71	160	35	8.1	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	30	2.0 U	NA	180	150	
FSFC Supply Well (Post-Filter)	FSFC Supply Well (Post-Filter)	6/11/2020		3.4 I	130	133	NA	5.8 I	12	2.2 I	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	9.4	6.6	
FSFC Supply Well (Pre-Filter & Pre-Holding Tank)	FSFC Supply Well (Pre H T)	3/30/2021		89	3,000	3,089	NA	89	240	49	12	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	42	2.1 I	NA	220	210	
	FSFC Supply Well (Pre H T) DUP			97	2,800	2,897	NA	91	240	43	12	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	37	2.2 I	NA	230	210		
Well #1	Well #1	11/14/2018	NA	6.2	190	196	NA	NA	12	2.7	1.4 I	1.5 U	1.9 U	0.93 U	0.37 U	0.07 U	NA	NA	NA	NA	29	NA	
	Well #1	6/11/2020		2.4 I	100	102	NA	4.0 U	5.8 I	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	18	17	
	Well #1	3/29/2021		35	730	765	NA	31	92	13	3.5 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	160	150	
Well #4	Well #4	11/14/2018	NA	4.4	210	214	NA	NA	4.4	1.2 I	0.91 U	1.5 U	1.8 U	0.91 U	0.36 U	0.073 U	NA	NA	NA	NA	7.6	NA	
	Well #4	6/11/2020		2.3 I	120	122	NA	4.0 U	3.4 I	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	6.4	6.9	
	Well #4	3/29/2021		4.5 I	120	125	NA	2.0 U	4.9 I	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	7.3	7.3	
Well #5 AC	WELL #5- Aircomp	11/13/2018	140 to 240	20	490	510	NA	NA	42	9.0	3.2 IJ	1.4 UJ	1.8 UJ	0.89 UJ	0.36 UJ	0.07 UJ	NA	NA	NA	NA	58	NA	
	Well #5 AC	6/11/2020		28	1,000	1,028	NA	41	90	11	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	150	130	
	Well #5 AC	3/29/2021		34	710	744	NA	29	82	13	2.2 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	NA	140	140	
Well #8 (Pre-Filter)	Well #8	11/14/2018	77 to 100	260	14,000	14,260	NA	NA	350	84	22 I	15 U	18 U	9.1 U	3.6 U	0.73 U	NA	NA	NA	NA	310	NA	
	Well #8 Dup			260	14,000	14,260	NA	NA	360	92	24 I	14 U	18 U	9.1 U	3.6 U	0.72 U	NA	NA	NA	NA	330	NA	
Well #8 (Post-Filter)	Well #8	6/11/2020		1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U		
	Well #8 Dup			1.0 U	2.0 U	3.0	NA	4.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	0.40 U	0.40 U	
Well #8 (Pre-Filter)	Well #8	6/26/2020		170	12,000	12,170	NA	180	350	85	13	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	110	2.1 I	NA	380	420	
	Well #8 Dup			170	14,000	14,170	NA	170	340	72	13	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	110	2.2 I	NA	380	430	
	Well #8	3/29/2021		220	9,700	9,920	NA	170	380	83	15	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	64	2.0 U	NA	310	390	

TABLE 6: SUPPLY WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Sample Location	Field Sample ID	Sample Date	Screen Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA	
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.	
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*	
Provisional GCTL				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
CC Supply Well	CC WELL	11/13/2018	NA	210	NA	NA	NA	NA	NA	NA	0.046 UJ	0.046 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	CC Supply Well	6/11/2020		210	2.5	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	CC Supply Well	3/29/2021		250	4.2	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
FSFC Fire Well	Fire Supression Well	9/10/2018	NA	320	8.1	NA	0.26 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	FSFC Fire Well	6/11/2020		300	4.9 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	FSFC Fire Well	3/30/2021		370	8.2	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
FSFC Supply Well (Pre-Filter)	INSIDE	11/14/2018	118 to 170	130	NA	NA	NA	NA	NA	NA	0.44 UJ	0.44 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	FSFC Supply Well (Pre-Filter)	6/11/2020		1,500	42	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
FSFC Supply Well (Post-Filter)	FSFC Supply Well (Post-Filter)	6/11/2020		80	1.2 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
FSFC Supply Well (Pre-Filter & Pre-Holding Tank)	FSFC Supply Well (Pre H T)	3/30/2021		1,800	65	0.69 I	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	FSFC Supply Well (Pre H T) DUP			1,500	68	0.80 I	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Well #1	Well #1	11/14/2018	NA	270	NA	NA	NA	NA	NA	NA	0.046 UJ	0.046 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #1	6/11/2020		150	1.6 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #1	3/29/2021		960	26	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Well #4	Well #4	11/14/2018	NA	130	NA	NA	NA	NA	NA	NA	0.045 UJ	0.045 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #4	6/11/2020		110	1.5 I	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #4	3/29/2021		120	2.1 I	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Well #5 AC	WELL #5- Aircomp	11/13/2018	140 to 240	620	NA	NA	NA	NA	NA	NA	0.044 UJ	0.044 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #5 AC	6/11/2020		1,100	26	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #5 AC	3/29/2021		940	23	0.40 U	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Well #8 (Pre-Filter)	Well #8	11/14/2018	77 to 100	5,000	NA	NA	NA	NA	NA	NA	0.11 IJ	0.11 IJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #8 Dup			4,600	NA	NA	NA	NA	NA	NA	0.05 IJ	0.71 IJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Well #8 (Post-Filter)	Well #8	6/11/2020		0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	Well #8 Dup			0.40 U	0.40 U	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Well #8 (Pre-Filter)	Well #8	6/26/2020		5,900	210	1.2 I	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well #8 Dup			5,900	220	1.3 I	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Well #8	3/29/2021		4,000	190	1.4 I	0.40 U	NA	NA	NA	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 6: SUPPLY WELL ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

- Notes:**
- 1. PFAS indicates per- and polyfluoroalkyl substances.
 - 2. Results and screening critieria are presented in nanograms per liter (ng/L).
 - 3. Sample depths are presented in feet below land surface (ft BLS).
 - 3. PFOA+PFOS indicates the summation of PFOA and PFOS concentrations.
 - 4. U indicates that the compound was analyzed for but not detected above the laboratory method detection limit (MDL) shown.
 - 5. I indicates the result is between the laboratory MDL and the practical quantitation limit.
 - 6. J indicates estimated value and/or the analysis did not meet the quality control criteria.
 - 7. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection (FDEP) Provisional Groundwater Cleanup Target Level (GCTL).
 - 8. -- indicates no applicable cleanup target level.
 - 9. NA indicates constituent was not analyzed for.
 - 10. N/A indicates the information listed is not applicable.
 - 11. PFCA indicates perfluoroalkyl carboxylic acids.
 - 12. PFSA indicates perfluorosulfonic acids.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelemer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelemer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

TABLE 7: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Location ID	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFOA + PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS
Class				PFCA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional GCTL (ng/L)				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 10	AOC 1-TMW 1 (36-40')	9/12/2019	36-40	6,400	250,000	256,400	NA	5,900	14,000	2,600	160	8.0	3.2 I	1.4 I	0.40 U	0.40 U	120	3,000	3,500	NA	14,000	12,000
SP-1	SP-1 (36-40)	11/4/2019	36 to 40	1,100	9,500	10,600	NA	380	1,200	380	200	2.4 I	19	1.1 U	0.45 U	0.45 U	3.2 I	330 I	35	NA	1,200	1,200
	SP-1 (41-45)		41 to 45	1,800	6,400	8,200	NA	600	1,400	470	470	2.0 I	3.1 I	1.1 U	0.45 U	0.45 U	5.9 I	590	15	NA	1,300	1,400
	SP-1 (46-50)		46 to 50	1,200	6,300	7,500	NA	480	1,300	480	310	3.3 I	12	1.1 U	0.45 U	0.45 U	4.5 I	370	20	NA	1,400	1,300
	Dup-1 (SP-1 (46-50'))			1,400	8,400	9,800	NA	570	1,500	600	370	4.2 I	13	1.1 U	0.45 U	0.45 U	4.5 I	400	25	NA	1,600	1,500
	SP-1 (51-55)		51 to 55	1,300	8,700	10,000	NA	570	1,500	480	300	4.0 I	5.9	1.0 U	0.40 U	0.40 U	5.1 I	460	20	NA	1,500	1,400
	SP-1 (56-60)	11/5/2019	56 to 60	8,800	34,000	42,800	NA	3,400	12,000	3,000	1,400	10	32	1.1 U	0.45 U	0.45 U	37	2,500	55	NA	9,200	8,700
SP-2	SP-2 (36-40)	11/8/2019	36 to 40	270	4,400	4,670	NA	480	860	180	31	2.3 I	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	26 J	2.7 I	NA	1,200	1,000
	SP-2 (41-45)		41 to 45	72	860	932	NA	170	280	55	10	1.3 I	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.4 II	2.0 U	NA	380	250
	SP-2 (46-50)		46 to 50	72	540	612	NA	110	190	53	11	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 UJ	2.0 U	NA	260	140
	SP-2 (51-55)		51 to 55	83	690	773	NA	200	250	69	14	2.1 I	1.0 U	1.0 U	0.89 I	0.95 I	2.0 U	4.0 UJ	2.0 U	NA	370	230
SP-3	SP-3 (41-45)	11/6/2019	41 to 45	530	3,200	3,730	NA	1,300	910	660	18	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.9 II	1,100	2.0 UJ	NA	850	1,000
	Dup-3 (SP-3 (41-45'))			540	4,800	5,340	NA	1,300	1000	690	21	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	3.9 II	1,400	2.0 UJ	NA	950	1,100
	SP-3 (46-50)		46 to 50	590	4,600	5,190	NA	1,900	1,200	660	17	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	3.3 I	1,300 J	2.0 U	NA	1,100	1,300
	SP-3 (51-55)	11/7/2019	51 to 55	730	6,000	6,730	NA	2,200	2,000	1,000	21	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	4.1 I	1,600 J	2.0 U	NA	1,400	1,700
	SP-3 (56-60)		56 to 60	140	2,900	3,040	NA	380	510	120	14	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	350 J	2.0 U	NA	570	570
	SP-3 (66-70)		66 to 70	470	8,800	9,270	NA	1,500	1,300	500	90	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	5.1 I	1,800 J	2.0 U	NA	1,700	1,600
	SP-3 (71-75)		71 to 75	630	13,000	13,630	NA	1,700	1,900	580	72	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	7.1 I	2,200 J	2.0 U	NA	1,800	1,900
SP-4	SP-4 (66-70)	11/6/2019	66 to 70	25	320	345	NA	29	88	16	2.7 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	27 J	2.0 U	NA	85	87
	Dup-2 (SP-4 (66-70'))			25	370	395	NA	34	93	17	2.7 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	26 J	2.0 U	NA	84	84
SP-6	SP-6 (31-35)	11/8/2019	31 to 35	60	3,000	3,060	NA	57	110	29	5.3	1.0 U	1.0 U	1.0 U	0.40 U	0.43 I	2.0 U	19 J	2.0 U	NA	190	370
	SP-6 (36-40)		36 to 40	89	2,700	2,789	NA	84	200	39	7.1	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	19 J	2.0 U	NA	370	360
	SP-6 (41-45)		41 to 45	110	2,900	3,010	NA	200	420	60	7.2	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	97 J	2.0 U	NA	490	430
	SP-6 (46-50)		46 to 50	150	4,800	4,950	NA	160	290	72	11	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	270 J	2.0 U	NA	470	520
	SP-6 (50-54)		50 to 54	150	3,300	3,450	NA	110	220	58	21 U	1.1 U	1.1 U	1.1 U	0.42 U	0.42 U	2.1 U	85 U	2.1 U	NA	260	300
SP-7	SP-7(46-50')	6/25/2020	46 to 50	3,500	60,000	63,500	NA	2,900	7,300	2,100	39	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	8.3	270	35	NA	13,000	11,000
SP-8	SP-8(46-50')	6/25/2020	46 to 50	3,600	130,000	133,600	NA	2,600	7,900	1,300	37	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	11	700	110	NA	11,000	10,000
	DUP-4 [SP-8(46-50')]	6/25/2020		3,500	120,000	123,500	NA	2,800	7,400	1,400	34	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	10	710	96	NA	11,000	10,000
SP-9	SP-9(46-50')	6/26/2020	46 to 50	870	29,000	29,870	NA	600	1,700	240	6.6	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	160	6.3 I	NA	2,100	2,800
SP-10	SP-10 (41-45)	9/16/2020	41 to 45	960	540	1,500	NA	4,100	2,900	1,500	17	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	8.8	890	2.0 U	NA	3,900	3,500
	SP-10 (51-55)		51 to 55	330	75	405	NA	1,600	1,700	840	4.1	1.0 U	1.0 U	1.0 U	0.40 U	0.56 I	2.7 I	210	2.0 U	NA	2,500	3,300
	SP-10 (61-65)		61 to 65	95	67	162	NA	880	600	250	1.7 I	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.3 I	780	2.0 U	NA	570	470
	SP-10 (71-75)		71 to 75	440	280	720	NA	2,600	1,500	650	12	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	4.9 I	520	2.0 U	NA	2,600	2,300
SP-11	SP-11 (41-45)	9/16/2020	41 to 45	370	44,000	44,370	NA	380	1,000	320	270	1.6 I	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	290	7.1 I	NA	1,300	2,000
	SP-11 (51-55)		51 to 55	650	32,000	32,650	NA	480	1,400	470	140	6.7	1.1 I	1.0 U	0.40 U	0.40 U	2.0 I	160 I	80	NA	1,100	1,300
	SP-11 (61-65)		61 to 65	250	11,000	11,250	NA	190	460	160	60	3.3 I	2.0 I	1.0 U	0.40 U	0.40 U	2.0 U	72	31	NA	460	530
	SP-11 (71-75)		71 to 75	370	9,700	10,070	NA	330	780	250	60	2.6 I	2.7 I	1.0 U	0.40 U	0.40 U	2.0 I	160	40	NA	960	960
SP-12	SP-12 (41-45)	9/17/2020	41 to 45	250	110	360	NA	360	1,200	95	27	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	240	2.0 U	NA	690	430
	SP-12 (51-55)		51 to 55	780	22,000	22,780	NA	440	2,100	330	96	2.4 I	1.0 U	1.0 U	0.40 U	0.40 U	3.5 I	360	15	NA	1,900	1,700
	SP-12 (61-65)		61 to 65	840	18,000	18,840	NA	660	3,000	440	38	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	4.5 I	210	6.4 I	NA	2,800	2,500
	SP-12 (71-75)		71 to 75	570	19,000	19,570	NA	630	4,500	370	18	1.0 U	1.4 I	1.0 U	0.40 U	0.40 U	2.5 I	140	3.5 I	NA	2,900	2,100
SP-13	SP-13 (41-45)	9/17/2020	41 to 45	6,000	4,500	10,500	NA	3,700	1,800	2,200	190	5.4	1.0 U	1.0 U	0.40 U	0.40 U	13	1,700	250	NA	1,200	860
	SP-13 (51-55)		51 to 55	2,000	70,000	72,000	NA	1,500	3,700	750	53	5.4 I	2.5 U	2.5 U	1.0 U	1.0 U	5.0 U	1,000	140	NA	4,900	4,100
	DUP-1 [SP-13 (51-55)]			1,800	58,000	59,800	NA	1,500	3,400	710	46	5.3 I	2.5 U	2.5 U	1.0 U	1.0 U	5.0 U	1,100	110	NA	4,900	4,000
	SP-13 (61-65)		61 to 65	2,700	51,000	53,700	NA	1,400	3,400	710	59	4.5	1.0 U	1.0 U	0.40 U	0.40 U	9.1	850	150	NA	4,400	3,800
	SP-13 (71-75)		71 to 75	1,400	28,000	29,400	NA	790	1,900	500	39	1.3 I	1.0 U	1.0 U	0.40 U	0.40 U	4.2 I	590	59	NA	3,000	2,700
SP-14	SP-14 (81-85)	9/17/2020	81 to 85	1.6 I	160	162	NA	4.0 U	4.0 I	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	4.0 U	2.0 U	NA	8.2	10
	SP-14 (87-91)	9/18/2020	87 to 91	94	4,100	4,194	NA	78	170	34	5.8	1.0 U	1.0 U	1.0 U	0.40 U	0.40 U	2.0 U	34	2.9 I	NA	350	280
SP-15	SP-15 (61-65')	3/14/2022	61 to 65	2.0 U	6.2 I	8.2	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.86 I	0.40 U
	SP-15 (71-75')		71 to 75	2.0 U	8.7	11	4.1 U	3.1 I	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	2.0	0.41 U
	SP-15 (81-85')		81 to 85	2.1 U	18	20	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	1.3 I	0.42 U
	SP-15 (91-95')		91 to 95	5.7 I	25	31	5.6 U	4.0 I	2.8 U	2.8 U	2.8 U	5.6 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	22 U	2.8 U	5.6 U	1.6 I	0.56 U
	SP-15 (101-105')		101 to 105	5.5 I	23	29	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	17 U	2.2 U	4.3 U	1.9	0.43 U

TABLE 7: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Location ID	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional GCTL (ng/L)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AOC 1-SB 10	AOC 1-TMW 1 (36-40')	9/12/2019	36-40	66,000	7,800	52	40	NA	NA	NA	4.0 U	4.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-1	SP-1 (36-40)	11/4/2019	36 to 40	7,400	450	0.45 U	0.45 U	NA	NA	NA	0.45 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-1 (41-45)		41 to 45	8,400	640	0.45 U	0.45 U	NA	NA	NA	0.45 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-1 (46-50)		46 to 50	6,900	330	0.45 U	0.45 U	NA	NA	NA	0.45 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup-1 (SP-1 (46-50))			7,900	390	0.45 U	0.45 U	NA	NA	NA	0.45 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-1 (51-55)	11/5/2019	51 to 55	6,900	360	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-1 (56-60)		56 to 60	34,000	2,400	0.45 U	0.45 U	NA	NA	NA	0.45 U	0.45 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-2	SP-2 (36-40)	11/8/2019	36 to 40	5,200	390	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-2 (41-45)		41 to 45	1,700	59	0.90 I	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-2 (46-50)		46 to 50	1,300	33	1.4 I	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-2 (51-55)		51 to 55	1,500	52	2.3	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-3	SP-3 (41-45)	11/6/2019	41 to 45	5,200	120	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup-3 (SP-3 (41-45))			6,000	140	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-3 (46-50)		46 to 50	6,400	360	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-3 (51-55)	11/7/2019	51 to 55	8,400	240	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-3 (56-60)		56 to 60	2,400	190	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-3 (66-70)		66 to 70	6,700	490	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-3 (71-75)		71 to 75	7,200	580	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-4	SP-4 (66-70)	11/6/2019	66 to 70	780	24	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Dup-2 (SP-4 (66-70))			870	25	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-6	SP-6 (31-35)	11/8/2019	31 to 35	1,500	100	1.7	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-6 (36-40)		36 to 40	1,700	97	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-6 (41-45)		41 to 45	3,000	160	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-6 (46-50)		46 to 50	3,300	230	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-6 (50-54)		50 to 54	3,100	230	0.42 U	0.42 U	NA	NA	NA	0.42 U	0.42 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-7	SP-7(46-50')	6/25/2020	46 to 50	52,000	3,500	9.0	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-8	SP-8(46-50')	6/25/2020	46 to 50	35,000	3,400	39	1.7	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DUP-4 [SP-8(46-50')]	6/25/2020		33,000	3,300	34	1.5 I	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-9	SP-9(46-50')	6/26/2020	46 to 50	11,000	960	1.7	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-10	SP-10 (41-45)	9/16/2020	41 to 45	19,000	120	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-10 (51-55)		51 to 55	19,000	39	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-10 (61-65)		61 to 65	910	5.4	0.40 U	0.75 I	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-10 (71-75)		71 to 75	7,500	45	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-11	SP-11 (41-45)	9/16/2020	41 to 45	15,000	410	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-11 (51-55)		51 to 55	13,000	530	2.2	0.40 U	NA	NA	NA	1.5 I	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-11 (61-65)		61 to 65	4,800	190	1.5 I	0.59 I	NA	NA	NA	0.43 I	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-11 (71-75)		71 to 75	6,900	230	2.2	0.45 I	NA	NA	NA	3.0	0.56 I	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-12	SP-12 (41-45)	9/17/2020	41 to 45	110	400	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-12 (51-55)		51 to 55	36,000	800	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-12 (61-65)		61 to 65	55,000	870	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-12 (71-75)		71 to 75	53,000	580	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-13	SP-13 (41-45)	9/17/2020	41 to 45	27,000	4,400	1.5 I	0.40 U	NA	NA	NA	13	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-13 (51-55)		51 to 55	36,000	1,200	2.6 I	1.0 U	NA	NA	NA	6.0	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	DUP-1 [SP-13 (51-55)]			34,000	1,200	2.1 I	1.0 U	NA	NA	NA	2.7 I	1.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-13 (61-65)		61 to 65	28,000	1,300	1.2 I	0.40 U	NA	NA	NA	9.3	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-13 (71-75)		71 to 75	23,000	790	0.53 I	0.40 U	NA	NA	NA	2.9	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-14	SP-14 (81-85)	9/17/2020	81 to 85	120	2.6	0.40 U	0.40 U	NA	NA	NA	0.40 U	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SP-14 (87-91)	9/18/2020	87 to 91	2,300	83	0.40 U	0.40 U	NA	NA	NA	0.61 I	0.40 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SP-15	SP-15 (61-65')	3/14/2022	61 to 65	2.1 I	0.80 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-15 (71-75')		71 to 75	2.1 I	0.82 U	0.41 U	0.41 U	0.82 U	0.82 U	0.41 U	0.82 U	0.82 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.2 U
	SP-15 (81-85')		81 to 85	2.1 I	0.83 U	0.42 U	0.42 U	0.83 U	0.83 U	0.90 I	0.83 U	0.83 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.3 U
	SP-15 (91-95')		91 to 95	4.3 I	1.1 U	0.56 U	0.56 U	2.3 I	12	2.1 I	1.1 U	1.1 U	0.56 U	2.8 U	2.8 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	11 U
	SP-15 (101-105')		101 to 105	6.4	0.87 U	0.43 U	0.43 U	0.87 U	0.87 U	0.43 U	0.87 U	0.87 U	0.43 U	2.2 U	2.2 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.7 U

TABLE 7: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Location ID	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFOA + PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDaA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS
Class				PFCA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional GCTL (ng/L)				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-16	SP-16 (61-65')	3/8/2022	61 to 65	3.9 I	24	28	4.2 U	2.1 U	2.6 I	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	0.88 I	0.77 I
	SP-16 (71-75')		71 to 75	2.0 U	12	14	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	1.2 I	0.40 U
	SP-16 (81-85')		81 to 85	2.2 U	6.5 I	8.7	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	17 U	2.2 U	4.3 U	2.2	0.43 U
	SP-16 (91-95')		91 to 95	2.0 U	4.8 I	6.8	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.40 U	0.40 U
	SP-16 (101-105')		101 to 105	2.6 U	3.7 I	6.3	5.2 U	2.6 U	2.6 U	2.6 U	2.6 U	5.2 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	21 U	2.6 U	5.2 U	1.2 I	0.52 U
SP-18	SP-18 (61-65')	3/9/2022	61 to 65	2.0 U	24	26	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	2.7	5.1
	SP-18 (61-65') DUP		61 to 65	2.0 U	29	31	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	2.8	5.7
	SP-18 (71-75')		71 to 75	4.0 I	120	124	5.0 U	2.5 U	6.0 I	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	20 U	2.5 U	5.0 U	14	19
	SP-18 (81-85')		81 to 85	2.4 U	69	71	4.8 U	2.4 U	2.4 U	2.4 U	2.4 U	4.8 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	19 U	2.4 U	4.8 U	7.4	10
	SP-18 (91-95')		91 to 95	2.0 U	16	18	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	2.2	3.3
SP-19	SP-19 (101-105')	3/15/2022	101 to 105	2.0 U	5.5 I	7.5	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.58 I	0.82 I
	SP-19 (41-45')		41 to 45	36	700	736	23	46	64	22	3.0 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	18	57	65
	SP-19 (51-55')		51 to 55	69	1,200	1,269	41	78	89	28	6.1 I	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 I	2.0 U	37	110	140
	SP-19 (51-55') DUP			63	1,300	1,363	40	70	100	31	5.5 I	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	19 I	2.0 U	42	110	150
	SP-19 (61-65')		61 to 65	33	740	773	23	37	55	14	2.4 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	18	57	80
	SP-19 (71-75')		71 to 75	26	670	696	18	31	47	12	2.4 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	16	52	80
	SP-19 (81-85')		81 to 85	40	1,100	1,140	18	32	46	13	2.6 I	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	17 U	2.2 U	15 I	49	84
	SP-19 (91-95')		91 to 95	33	1,100	1,133	20	35	65	16	2.1 I	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	17	48	79
	SP-19 (101-105')		101 to 105	35	1,200	1,235	20	43	64	19	2.6 I	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	18 I	59	95
SP-21	SP-21 (111-115')	3/9/2022	111 to 115	37	940	977	22	42	49	18	3.5 I	4.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	21	66	75
	SP-21 (51-55')		51 to 55	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.4 U	0.4 U
	SP-21 (61-65')		61 to 65	2.0 U	3.3 I	5.3	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	4.3	2.6
	SP-21 (71-75')		71 to 75	2.2 U	3.5 I	5.7	4.5 U	2.2 U	2.2 U	2.2 U	2.2 U	4.5 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.5 U	2.2	2.2
	SP-21 (78-82')		78 to 82	2.0 U	2.6 I	4.6	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	1.6 I	1.5 I
SP-22	SP-21 (78-82') DUP	3/2/2022		2.0 U	2.4 I	4.4	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	1.5 I	1.3 I
	SP-22(61-65')		61 to 65	2.4 I	36	38	4.0 U	2.0 U	5.0 I	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	11	9.9
	SP-22(71-75')		71 to 75	2.0 U	13	15	4.1 U	2.0 U	3.2 I	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	12	8.1
	SP-22(81-85')		81 to 85	2.3 U	2.3 U	4.6	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	19 U	2.3 U	4.6 U	0.72 I	1.1 I
	SP-22(81-85') DUP			2.3 U	2.3 U	4.6	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	19 U	2.3 U	4.6 U	0.78 I	0.76 I
	SP-22(91-95')		91 to 95	2.1 U	6.4 I	8.5	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	1.4 I	1.6 I
	SP-22(101-105')		101 to 105	2.4 U	27	29	4.8 U	2.4 U	2.9 I	2.4 U	2.4 U	4.8 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	19 U	2.4 U	4.8 U	9.3	9.0
SP-23	SP-22(111-115')	3/7/2022	111 to 115	2.9 I	23	26	4.2 U	3.6 I	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	13	12
	SP-23 (71-75')		71 to 75	2.0 U	34	36	4.0 U	2.0 U	3.4 I	2.0 U	2.9 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	4.8	5.7
	SP-23 (81-85')		81 to 85	5.4 I	57	62	4.8 U	2.4 U	7.1 I	2.4 U	2.4 I	4.8 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	19 U	2.4 U	4.8 U	6.2	3.9
	SP-23 (91-95')		91 to 95	2.2 U	30	32	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	4.4 U	5.4	4.1
SP-24	SP-24 (71-75')	3/1/2022	71 to 75	2.3 U	2.3 U	4.6	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.6 U	1.4 I	0.46 U
	SP-24 (81-85')		81 to 85	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.67 I	0.40 U
	SP-24 (91-95')		91 to 95	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.40 U	0.40 U
	SP-24 (111-115')		111 to 115	2.3 U	2.3 U	4.6	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	4.6 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.6 U	0.81 I	0.46 U
SP-25	SP-25(91-95')	3/3/2022	91 to 95	21	120	141	5.9 I	13.0	24.0	6.0 I	2.6 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	10 I	36	38
	SP-25(101-105')		101 to 105	2.9 I	13	16	4.0 U	2.5 I	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	13	13
	SP-25(111-115')		111 to 115	5.5 I	52	58	4.5 U	2.5 I	6.4 I	2.3 U	2.3 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.5 U	14	17
	SP-25(111-115') DUP			4.6 I	37	42	4.5 U	2.6 I	6.1 I	2.3 U	2.3 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.5 U	13	16
SP-26	SP-26 (41-45')	2/23/2022	41 to 45	2.0 U	2.0 U	4.0	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.1 U	0.41 U	0.41 U
	SP-26 (61-65')		61 to 65	2.1 U	2.8 I	4.9	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	0.42 U	0.42 U
	SP-26 (111-115')		111 to 115	2.8 U	2.8 U	5.6	5.6 U	2.8 U	2.8 U	2.8 U	2.8 U	5.6 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	22 U	2.8 U	5.6 U	0.56 U	0.56 U
SP-27	SP-27 (71-75')	2/28/2022	71 to 75	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.4 U	0.4 U
	SP-27 (81-85')		81 to 85	2.1 U	2.1 U	4.2	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	0.42 U	0.42 U
	SP-27 (91-95')		91 to 95	2.2 U	2.2 U	4.4	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	17 U	2.2 U	4.3 U	0.43 U	0.43 U
	SP-27 (101-105')		101 to 105	2.3 U	2.3 U	4.6	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	4.5 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	18 U	2.3 U	4.5 U	0.45 U	0.45 U
	SP-27 (111-115')		111 to 115	2.1 U	2.1 U	4.2	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	0.42 U	0.42 U

TABLE 7: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS																					
Florida State Fire College																					
Location ID	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional GCTL (ng/L)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-16	SP-16 (61-65')	3/8/2022	61 to 65	2.7 I	0.83 U	0.42 U	0.42 U	1.7 I	24	2.9	0.83 U	0.83 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.3 U
	SP-16 (71-75')		71 to 75	2.2 I	0.80 U	0.40 U	0.40 U	0.80 U	11	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-16 (81-85')		81 to 85	1.3 I	0.87 U	0.43 U	0.43 U	0.87 U	4.9	0.43 U	0.87 U	0.87 U	0.43 U	2.2 U	2.2 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.7 U
	SP-16 (91-95')		91 to 95	0.80 U	0.80 U	0.40 U	0.40 U	0.80 U	4.1	0.50 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-16 (101-105')		101 to 105	1.3 I	1.0 U	0.52 U	0.52 U	1.0 U	9.4	0.52 U	1.0 U	1.0 U	0.52 U	2.6 U	2.6 U	5.2 U	5.2 U	5.2 U	5.2 U	5.2 U	10 U
SP-18	SP-18 (61-65')	3/9/2022	61 to 65	32	0.80 U	0.40 U	0.40 U	4.5	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-18 (61-65') DUP		61 to 65	38	0.80 U	0.40 U	0.40 U	5.2	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-18 (71-75')		71 to 75	120	1.3 I	0.50 U	0.50 U	9.3	5.7	0.50 U	1.0 U	1.0 U	0.50 U	2.5 U	2.5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
	SP-18 (81-85')		81 to 85	78	0.96 U	0.48 U	0.48 U	4.5	1.0 I	0.48 U	0.96 U	0.96 U	0.48 U	2.4 U	2.4 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	9.6 U
	SP-18 (91-95')		91 to 95	22	0.82 U	0.41 U	0.41 U	0.89 I	1.3 I	0.41 U	0.82 U	0.82 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.2 U
SP-19	SP-18 (101-105')	3/15/2022	101 to 105	6.1	0.80 U	0.40 U	0.4 U	0.80 U	3.0 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-19 (41-45')		41 to 45	590	11	0.40 U	0.40 U	200	0.8 U	40	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-19 (51-55')		51 to 55	980	15	0.41 U	0.41 U	290	450	52	0.81 U	0.81 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.1 U
	SP-19 (51-55') DUP			980	15	0.41 U	0.41 U	280	510	53	0.81 U	0.81 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.1 U
	SP-19 (61-65')		61 to 65	760	9.9	0.40 U	0.40 U	180	220	13	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-19 (71-75')		71 to 75	830	9.8	0.40 U	0.40 U	150	100	7.5	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-19 (81-85')		81 to 85	1100	14	0.43 U	0.43 U	210	360	13	0.87 U	0.87 U	0.43 U	2.2 U	2.2 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.7 U
	SP-19 (91-95')		91 to 95	930	15	0.41 U	0.41 U	240	230	15	0.83 U	0.83 U	0.41 U	2.1 U	2.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.3 U
	SP-19 (101-105')		101 to 105	1200	18	0.45 U	0.45 U	320	190	4.5	0.90 U	0.90 U	0.45 U	2.3 U	2.3 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	9.0 U
SP-21	SP-19 (111-115')	3/9/2022	111 to 115	560	11	0.43 U	0.43 U	130	240	32	0.85 U	0.85 U	0.43 U	2.1 U	2.1 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.5 U
	SP-21 (51-55')		51 to 55	1.5 I	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-21 (61-65')		61 to 65	3.4	0.80 U	0.40 U	0.40 U	1.6 U	0.82 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-21 (71-75')		71 to 75	4.5	0.89 U	0.45 U	0.45 U	0.89 U	2.3 I	0.45 U	0.89 U	0.89 U	0.45 U	2.2 U	2.2 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	8.9 U
	SP-21 (78-82')		78 to 82	1.2 I	0.80 U	0.40 U	0.40 U	0.8 U	1.7 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
SP-22	SP-21 (78-82') DUP			1.3 I	0.80 U	0.40 U	0.40 U	0.8 U	1.1 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-22(61-65')	3/2/2022	61 to 65	66	0.80 U	0.40 U	0.40 U	7.0	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-22(71-75')		71 to 75	47	0.82 U	0.41 U	0.41 U	0.82 I	0.82 U	0.41 U	0.82 U	0.82 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.2 U
	SP-22(81-85')		81 to 85	3.6 I	0.93 U	0.46 U	0.46 U	0.93 U	0.93 U	0.46 U	0.93 U	0.93 U	0.46 U	2.3 U	2.3 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	9.3 U
	SP-22(81-85') DUP			2.8 I	0.93 U	0.46 U	0.46 U	0.93 U	0.93 U	0.46 U	0.93 U	0.93 U	0.46 U	2.3 U	2.3 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	9.3 U
	SP-22(91-95')		91 to 95	9	0.83 U	0.42 U	0.42 U	0.90 I	0.83 U	0.42 U	0.83 U	0.83 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.3 U
	SP-22(101-105')		101 to 105	48	0.95 U	0.48 U	0.48 U	5.1	0.95 U	0.48 U	0.95 U	0.95 U	0.48 U	2.4 U	2.4 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	9.5 U
SP-23	SP-22(111-115')		111 to 115	79	1.1 I	0.42 U	0.42 U	6.3	0.86 I	0.42 U	0.84 U	0.84 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.4 U
	SP-23 (71-75')	3/7/2022	71 to 75	28	0.80 U	0.40 U	0.40 U	2.8 I	14	0.61 I	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-23 (81-85')		81 to 85	20	0.95 U	0.48 U	0.48 U	4.7	48	2.1	0.95 U	0.95 U	0.48 U	2.4 U	2.4 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	9.5 U
	SP-23 (91-95')		91 to 95	13	0.88 U	0.44 U	0.44 U	1.4 I	19	1.7 I	0.88 U	0.88 U	0.44 U	2.2 U	2.2 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	8.8 U
SP-24	SP-24 (71-75')	3/1/2022	71 to 75	0.92 U	0.92 U	0.46 U	0.46 U	0.92 U	0.92 U	0.46 U	0.92 U	0.92 U	0.46 U	2.3 U	2.3 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	9.2 U
	SP-24 (81-85')		81 to 85	0.80 U	0.80 U	0.40 U	0.40 U	0.80 U	1.2 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-24 (91-95')		91 to 95	0.80 U	0.80 U	0.40 U	0.40 U	0.80 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-24 (111-115')		111 to 115	0.92 U	0.92 U	0.46 U	0.46 U	0.92 U	0.92 U	0.46 U	0.92 U	0.92 U	0.46 U	2.3 U	2.3 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	9.2 U
SP-25	SP-25(91-95')	3/3/2022	91 to 95	260	4.1	0.40 U	0.40 U	82	69	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-25(101-105')		101 to 105	51	0.85 I	0.40 U	0.40 U	9.9	1.2 I	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-25(111-115')		111 to 115	89	1.6 I	0.45 U	0.45 U	30	16	0.45 U	0.90 U	0.90 U	0.45 U	2.3 U	2.3 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	9.0 U
	SP-25(111-115') DUP			70	1.1 I	0.45 U	0.45 U	24	8.2	0.45 U	0.90 U	0.90 U	0.45 U	2.3 U	2.3 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	9.0 U
SP-26	SP-26 (41-45')	2/23/2022	41 to 45	0.82 U	0.82 U	0.41 U	0.41 U	0.82 U	0.82 U	0.41 U	0.82 U	0.82 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.2 U
	SP-26 (61-65')		61 to 65	0.83 U	0.83 U	0.42 U	0.42 U	0.83 U	1.1 I	0.42 U	0.83 U	0.83 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.3 U
	SP-26 (111-115')		111 to 115	1.1 U	1.1 U	0.56 U	0.56 U	1.1 U	3.6 I	0.56 U	1.1 U	1.1 U	0.56 U	2.8 U	2.8 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	11 U
SP-27	SP-27 (71-75')	2/28/2022	71 to 75	0.8 U	0.80 U	0.40 U	0.40 U	0.80 U	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-27 (81-85')		81 to 85	0.83 U	0.83 U	0.42 U	0.42 U	0.83 U	0.83 U	0.42 U	0.83 U	0.83 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.3 U
	SP-27 (91-95')		91 to 95	0.87 U	0.87 U	0.43 U	0.43 U	0.87 U	0.87 U	0.43 U	0.87 U	0.87 U	0.43 U	2.2 U	2.2 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.7 U
	SP-27 (101-105')		101 to 105	0.9 U	0.9 U	0.45 U	0.45 U	0.9 U	1.3 I	0.45 U	0.90 U	0.90 U	0.45 U	2.3 U	2.3 U	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	9.0 U
	SP-27 (111-155')		111 to 115	0.85 U	0.85 U	0.42 U	0.42 U	0.85 U	0.98 I	0.42 U	0.85 U	0.85 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.5 U

TABLE 7: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Location ID	Sample ID	Sample Date	Sample Interval (ft BLS)	PFOA	PFOS	PFOA + PFOS	PFBA	PFPeA	PFHxA	PFHpA	PFNA	PFDA	PFUnA	PFDoA	PFTriA	PFTeA	4:2 FTS	6:2 FTS	8:2 FTS	PFPPrS	PFBS	PFPeS
Class				PFCA	PFSA	N/A	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA	PFCA Precursor	PFCA Precursor	PFCA Precursor	PFSA	PFSA	PFSA
Carbon Chain Length				8	8	N/A	4	5	6	7	9	10	11	12	13	14	4	6	8	3	4	5
Provisional GCTL (ng/L)				70	70	70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-29	SP-29 (41-45')	2/22/2022	41 to 45	2.2 I	180	182	10 I	5.0 I	17	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	5.3 I	26	28
	SP-29 (51-55')		51 to 55	3.9 I	200	204	10 I	7.6 I	24	2.0 U	2.0 U	4.0 U	2.1 I	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	11 I	38	43
	SP-29 (61-65')		61 to 65	6.6 I	210	217	10 I	5.4 I	20	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	18	48	58
	SP-29 (61-65') DUP			6.8 I	220	227	9.9 I	5.9 I	21	2.2 U	2.2 U	4.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	18 U	2.2 U	17 I	47	58
	SP-29 (71-75')		71 to 75	6.0 I	210	216	8.3 I	3.9 I	13	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	9.2 I	41	45
	SP-29 (81-85')		81 to 85	8.3 I	220	228	10 I	4.4 I	17	2.6 U	2.6 U	5.3 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	21 U	2.6 U	9.9 I	43	52
	SP-29 (91-95')		91 to 95	5.4 I	220	225	7.3 I	3.3 I	13	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	27	36
SP-30	SP-30 (41-45')	2/21/2022	41 to 45	110	2,300	2,410	59	96	170	49	11	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	73	150	240
	SP-30 (51-55')		51 to 55	140	3,800	3,940	65	140	190	66	13	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	37 I	2.0 U	71	150	250
	SP-30 (61-65')		61 to 65	160	3,800	3,960	67	140	220	61	13	5.8 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	24 I	2.9 U	79	170	260
	SP-30 (61-65') DUP			140	3,600	3,740	65	120	200	56	12	5.8 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	24 I	2.9 U	68	150	220
	SP-30 (71-75')		71 to 75	180	5,200	5,380	84	190	320	86	9.5	4.8 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	180	2.4 U	120	200	360
	SP-30 (81-85')		81 to 85	170	3,900	4,070	140	160	460	87	2.6 I	4.3 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	17 U	2.2 U	310	440	400
	SP-30 (89-93')		89 to 93	87	1,900	1,987	60	89	180	32	4.3 I	6.6 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	26 U	3.3 U	100	170	210
SP-31	SP-31 (51-55')	3/7/2022	51 to 55	1,900	84,000	85,900	1,500	4,900	3,900	1,700	570	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	4.5 I	7,200	210	2,800	4,000	3,400
	SP-31 (61-65')		61 to 65	1,500	23,000	24,500	1,600	5,300	3,100	1,500	140	5.0 I	2.7 I	2.0 U	2.0 U	2.0 U	6.3 I	3,900	67	2,100	2,900	3,400
	SP-31 (71-75')		71 to 75	1,100	21,000	22,100	1,200	3,700	2,400	870	86	5.6 I	7.0 I	2.0 U	2.0 U	2.0 U	8.1	2,700	65	910	2,200	2,000
	SP-31 (71-75') DUP			1,200	25,000	26,200	1,200	4,000	2,600	900	90	6.1 I	6.7 I	2.0 U	2.0 U	2.0 U	9.5	2,600	78	1,000	2,400	2,200
	SP-31(84-88')		84 to 88	1,300	13,000	14,300	1,300	4,000	2,500	880	110	4.6 I	7.6 I	2.0 U	2.0 U	2.0 U	4.7 I	2,600	38	1,200	2,200	1,900
SP-34	SP-34(61-65')	3/4/2022	61 to 65	2.0 U	3.5 I	5.5	4.0 U	2.4 I	2.9 I	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	9.6	7.3
	SP-34(61-65') DUP			2.0 U	4.3 I	6.3	4.0 U	2.5 I	3.1 I	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	8.1	7.2
	SP-34(71-75')		71 to 75	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.43 I	0.53 I
	SP-34(81-85')		81 to 85	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.40 U	0.4 U
	SP-34(91-95')		91 to 95	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.40 U	0.4 U
	SP-34(101-105')		101 to 105	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.40 U	0.4 U
	SP-34(111-115')		111 to 115	2.0 U	2.0 U	4.0	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.54 I	0.4 U
SP-36	SP-36 (61-65')	3/16/2022	61 to 65	75	54	129	390	1,400	840	400	3.4 I	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	130	2.1 U	7.7 I	36	34
	SP-36 (71-75')		71 to 75	2.0 U	2.1 I	4.1	33	150	61	17	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	6.4	5.1
	SP-36 (81-85')		81 to 85	370	240	610	570	1,400	1100	840	30	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.2 I	1,300	2.0 U	14.0 I	51	67
	SP-36 (88-92')		88 to 92	55	35	90	210	520	380	160	2.5 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	140	2.0 U	5.0 I	18	18
SP-37	SP-37 (81-85')	3/17/2022	81 to 85	2.0 U	3.4 I	5.4	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	1.7	1.6
	SP-37 (88-92')		88 to 92	2.0 U	52	54	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	2.3	0.78 I

TABLE 7: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS

Florida State Fire College

Location ID	Sample ID	Sample Date	Sample Interval (ft BLS)	PFHxS	PFHpS	PFNS	PFDS	FBSA	FHxSA	FOSA	NEtFOSAA	NMeFOSAA	ADONA	11Cl-PF3OUdS	9Cl-PF3ONS	HFPO-DA	PFMPA	PFMBA	PFECHS	PFEESA	NFDHA
Class				PFSA	PFSA	PFSA	PFSA	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	PFSA Precursor	Replacement	Replacement	Replacement	Replacement	Misc.	Misc.	Misc.	Misc.	Misc.
Carbon Chain Length				6	7	9	10	4	6	8	8	8	*	*	*	*	*	*	*	*	*
Provisional GCTL (ng/L)				--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SP-29	SP-29 (41-45')	2/22/2022	41 to 45	240	2.8 I	0.4 U	0.40 U	14	3.9	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-29 (51-55')		51 to 55	310	3.1 I	0.4 U	0.40 U	18	18	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-29 (61-65')		61 to 65	410	3.6	0.44 U	0.44 U	32	1.8 I	0.44 U	0.88 U	0.88 U	0.44 U	2.2 U	2.2 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	8.8 U
	SP-29 (61-65') DUP			420	3.7	0.44 U	0.44 U	32	2.6 I	0.44 U	0.88 U	0.88 U	0.44 U	2.2 U	2.2 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	8.8 U
	SP-29 (71-75')		71 to 75	400	3.1 I	0.4 U	0.40 U	21	0.80 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-29 (81-85')		81 to 85	410	4.2	0.53 U	0.53 U	21	19	0.53 U	1.1 U	1.1 U	0.53 U	2.6 U	2.6 U	5.3 U	5.3 U	5.3 U	5.3 U	5.3 U	11 U
	SP-29 (91-95')		91 to 95	400	3.4	0.4 U	0.40 U	16	0.8 U	0.4 U	0.8 U	0.8 U	0.4 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
SP-30	SP-30 (41-45')	2/21/2022	41 to 45	1,900	41	0.4 U	0.40 U	330	950	7.8	0.8 U	0.8 U	0.4 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-30 (51-55')		51 to 55	1,700	49	0.4 U	0.40 U	430	2,100	11	0.8 U	0.8 U	0.4 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-30 (61-65')		61 to 65	1,900	47	0.58 U	0.58 U	580	1,200	12	1.2 U	1.2 U	0.58 U	2.9 U	2.9 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	12 U
	SP-30 (61-65') DUP			1,900	43	0.58 U	0.58 U	530	1,300	11	1.2 U	1.2 U	0.58 U	2.9 U	2.9 U	5.8 U	5.8 U	5.8 U	5.8 U	5.8 U	12 U
	SP-30 (71-75')		71 to 75	2,600	88	0.48 U	0.48 U	940	3,100	3.3	0.95 U	0.95 U	0.48 U	2.4 U	2.4 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U	9.5 U
	SP-30 (81-85')		81 to 85	3,300	110	0.43 U	0.43 U	1,700	2,800	1 I	0.87 U	0.87 U	0.43 U	2.2 U	2.2 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	8.7 U
	SP-30 (89-93')		89 to 93	1,600	41	0.66 U	0.66 U	670	2,000	2.4 I	1.3 U	1.3 U	0.66 U	3.3 U	3.3 U	6.6 U	6.6 U	6.6 U	6.6 U	6.6 U	13 U
SP-31	SP-31 (51-55')	3/7/2022	51 to 55	16,000	1,100	0.41 U	0.41 U	3,400	48,000	47	0.82 U	0.82 U	0.41 U	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.2 U
	SP-31 (61-65')		61 to 65	11,000	410	0.54 I	0.41 U	4,100	18,000	270	0.81 U	0.81 U	1.7	2.0 U	2.0 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	8.1 U
	SP-31 (71-75')			9,400	320	0.4 U	0.40 U	5,700	20,000	380	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-31 (71-75') DUP		71 to 75	9,800	320	0.4 U	0.40 U	6,600	23,000	410	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-31(84-88')			9,600	260	2.7	0.40 U	4,400	20,000	290	1.80 I	0.80 U	0.43 I	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	14 I
SP-34	SP-34(61-65')	3/4/2022	61 to 65	48	0.80 U	0.40 U	0.40 U	2.5 I	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-34(61-65') DUP			44	0.80 U	0.40 U	0.40 U	3.0 I	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-34(71-75')		71 to 75	1.6 I	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-34(81-85')		81 to 85	2.2 I	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-34(91-95')		91 to 95	0.8 U	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-34(101-105')		101 to 105	0.80 U	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	88
	SP-34(111-115')		111 to 115	0.80 U	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
SP-36	SP-36 (61-65')	3/16/2022	61 to 65	140	1.4 I	0.42 U	0.42 U	3.0 I	3.5	0.42 U	0.84 U	0.84 U	0.42 U	2.1 U	2.1 U	4.2 U	4.2 U	4.2 U	4.2 U	4.2 U	8.4 U
	SP-36 (71-75')		71 to 75	19	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-36 (81-85')		81 to 85	470	9.3	0.40 U	0.40 U	8.0	38	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-36 (88-92')		88 to 92	100	1.1 I	0.40 U	0.40 U	2.7 I	3.6	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
SP-37	SP-37 (81-85')	3/17/2022	81 to 85	7.7	0.80 U	0.40 U	0.40 U	0.8 U	0.8 U	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U
	SP-37 (88-92')		88 to 92	6.4	0.80 U	0.40 U	0.40 U	0.91 I	17	0.40 U	0.80 U	0.80 U	0.40 U	2.0 U	2.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	8.0 U

TABLE 7: SCREEN POINT GROUNDWATER ANALYTICAL RESULTS FOR PFAS
Florida State Fire College

Notes:

- 1. Results and screening criteria are presented in nanograms per liter (ng/L).
- 2. Sample depths are presented in feet below land surface (ft BLS).
- 3. Sample identified as AOC-TMW 1 (36-40') was collected via mechanical lift method from a direct push technology (DPT) screen point sampler (screened 36 to 40 ft BLS). The DPT screen was advanced at the location of AOC 1-SB 10.
- 4. PFOA+PFOS indicates the summation of PFOA and PFOS concentrations.
- 5. U indicates that the compound was analyzed for but not detected above the laboratory method detection limit (MDL) shown.
- 6. I indicates the result is between the laboratory MDL and the practical quantitation limit.
- 7. J indicates estimated value and/or the analysis did not meet the quality control criteria.
- 8. Blue shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection (FDEP) Provisional Groundwater Cleanup Target Level (GCTL).
- 9. -- indicates no applicable cleanup target level.
- 10. NA indicates constituent was not analyzed for.
- 11. N/A indicates the information listed is not applicable.
- 12. PFCA indicates perfluoroalkyl carboxylic acids.
- 13. PFSA indicates perfluorosulfonic acids.

Analyte	Acronym	Class	Carbon Chain Length
Perfluorooctanic acid	PFOA	PFCA	8
Perfluorooctane sulfonate	PFOS	PFSA	8
Perfluorobutanoic acid	PFBA	PFCA	4
Perfluoropentanoic acid	PFPeA	PFCA	5
Perfluorohexanoic acid	PFHxA	PFCA	6
Perfluoroheptanoic acid	PFHpA	PFCA	7
Perfluorononanoic acid	PFNA	PFCA	9
Perfluorodecanoic acid	PFDA	PFCA	10
Perfluoroundecanoic acid	PFUnA	PFCA	11
Perfluorododecanoic acid	PFDoA	PFCA	12
Perfluorotridecanoic acid	PFTriA	PFCA	13
Perfluorotetradecanoic acid	PFTeA	PFCA	14
4:2 Fluorotelomer sulfonate	4:2 FTS	PFCA Precursor	4
6:2 Fluorotelemer sulfonate	6:2 FTS	PFCA Precursor	6
8:2 Fluorotelemer sulfonate	8:2 FTS	PFCA Precursor	8
Perfluoropropanesulfonic acid	PFPrS	PFSA	3
Perfluorobutanesulfonic acid	PFBS	PFSA	4
Perfluoropentanesulfonic acid	PFPeS	PFSA	5
Perfluorohexanesulfonic acid	PFHxS	PFSA	6
Perfluoroheptanesulfonic acid	PFHpS	PFSA	7
Perfluorononanesulfonic acid	PFNS	PFSA	9
Perfluorodecanesulfonic acid	PFDS	PFSA	10
Perfluoro-1-butane sulfonamide	FBSA	PFSA Precursor	4
Perfluoro-1-hexane sulfonamide	FHxSA	PFSA Precursor	6
Perfluorooctane sulfonamide	FOSA	PFSA Precursor	8
N-ethylperfluorooctanesulfonamidoacetic acid	NEtFOSAA	PFSA Precursor	8
N-methylperfluorooctanesulfonamidoacetic acid	NMeFOSAA	PFSA Precursor	8
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	Replacement	*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	Replacement	*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	Replacement	*
Hexafluoropropylene oxide dimer acid	HFPO-DA	Replacement	*
Perfluoro-3-methoxypropanoic acid	PFMPA	Misc.	*
Perfluoro-4-methoxybutanoic acid	PFMBA	Misc.	*
Perfluoro-4-ethylcyclohexanesulfonic acid	PFECHS	Misc.	*
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	Misc.	*
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	Misc.	*

FIGURES



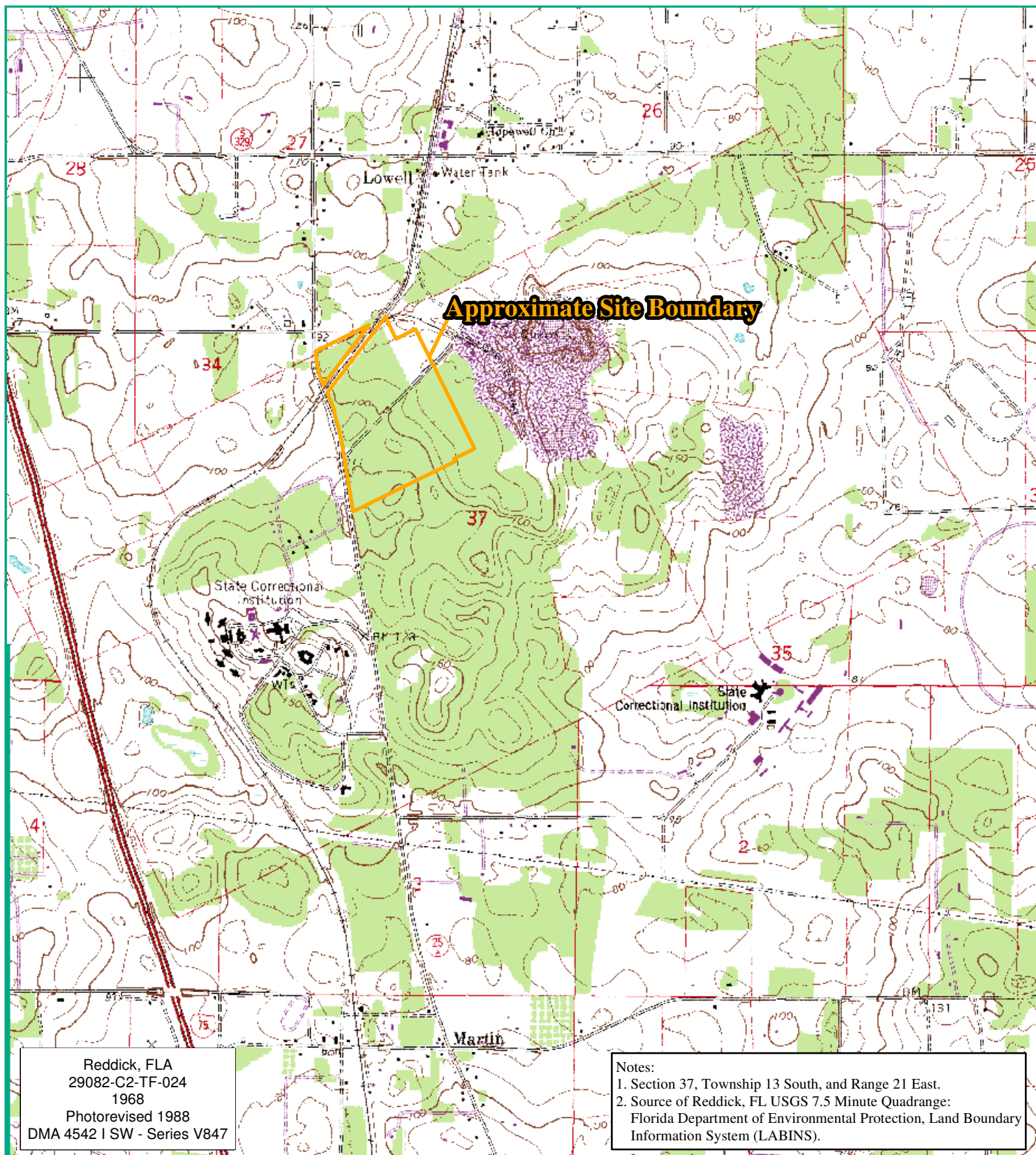


Figure 1
USGS Site Topographic Map
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida



Date: May 18, 2022



2,000

Feet



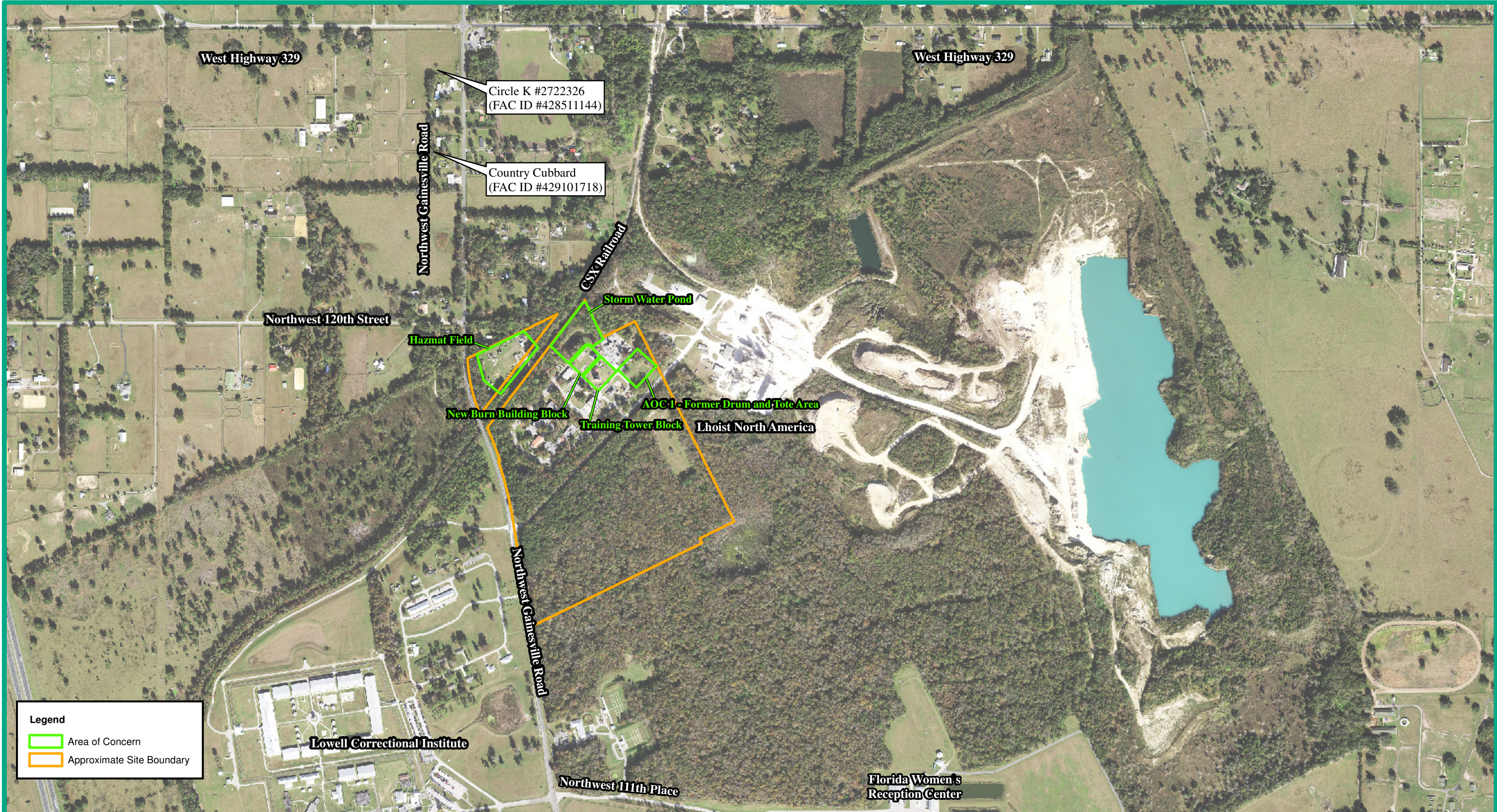


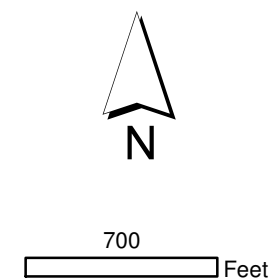


Figure 4
Monitoring and Supply Well Locations
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. AOC indicates area of concern.
2. Screen interval is presented in feet (') below land surface.
3. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Date: May 18, 2022



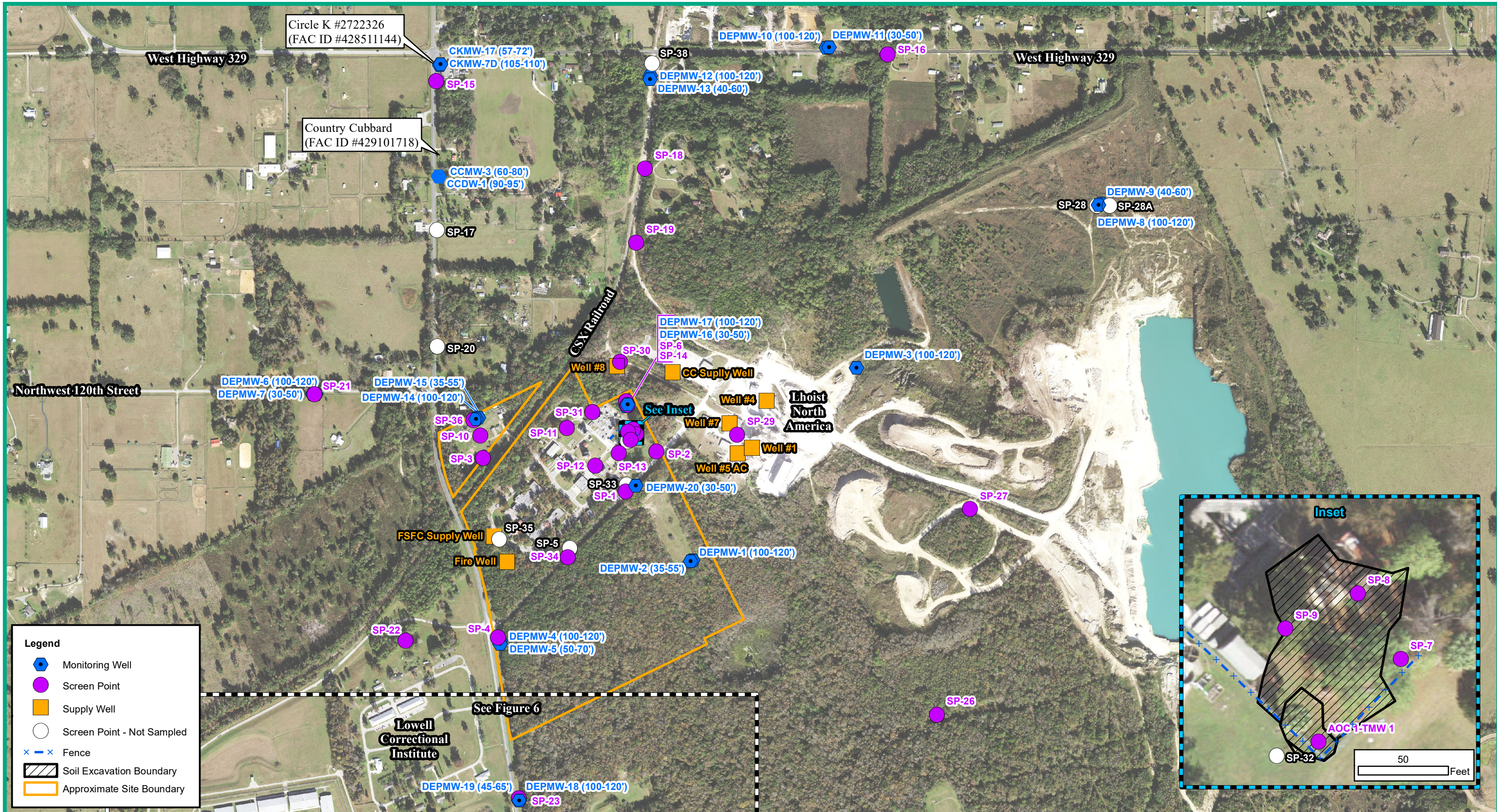




Figure 6
Southern Off-site Screen Point Sampling
Locations
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

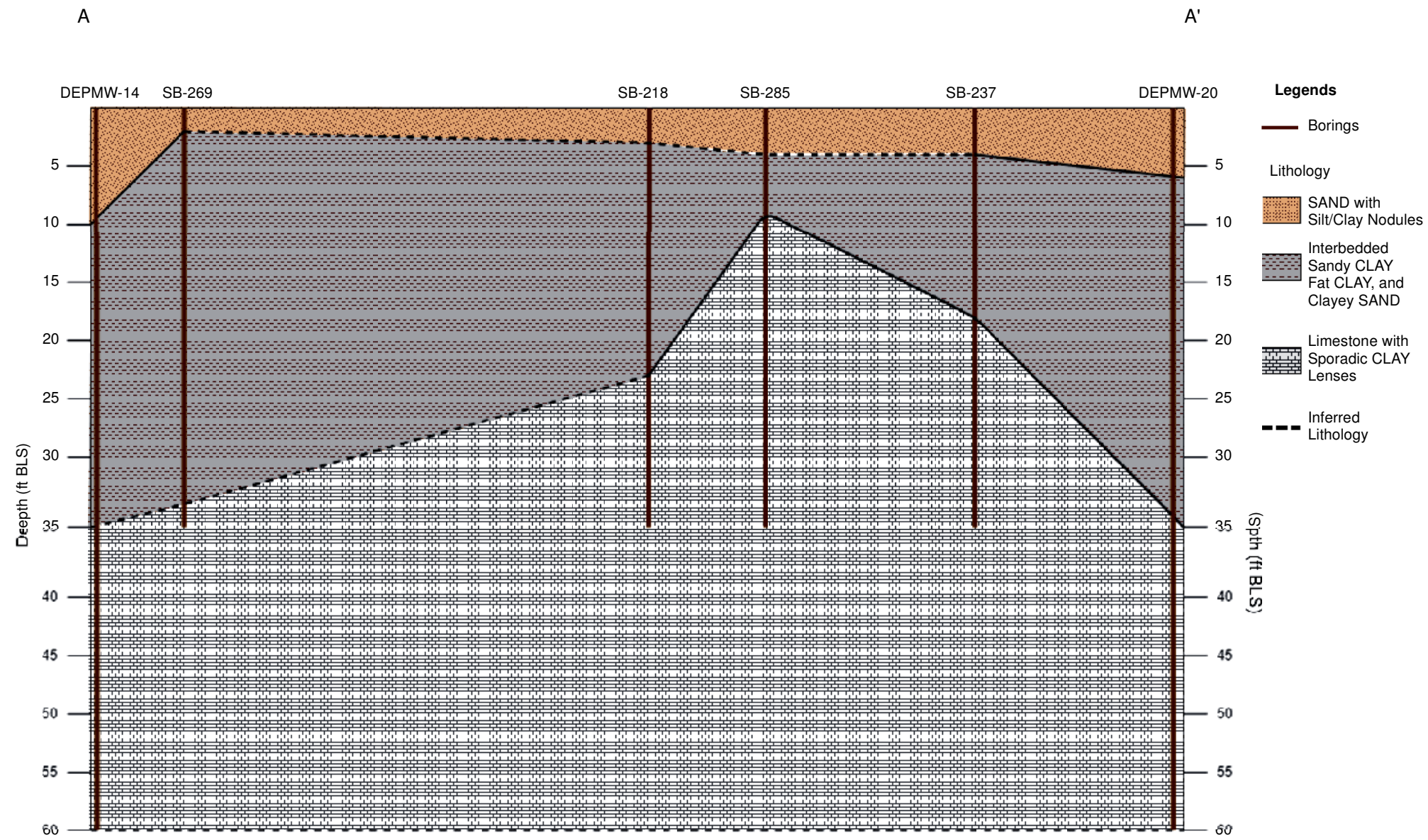
Note:
1. Screen interval is presented in feet (') below land surface.
2. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.



600 Feet



Date: June 02, 2022



Legends

- Borings
- Lithology
 - SAND with Silt/Clay Nodules
 - Interbedded Sandy CLAY, Fat CLAY, and Clayey SAND
 - Limestone with Sporadic CLAY Lenses
 - Inferred Lithology

Legend

- Monitoring Well
- Soil Sample
- Cross Section A-A'
- Approximate Site Boundary

600 Feet

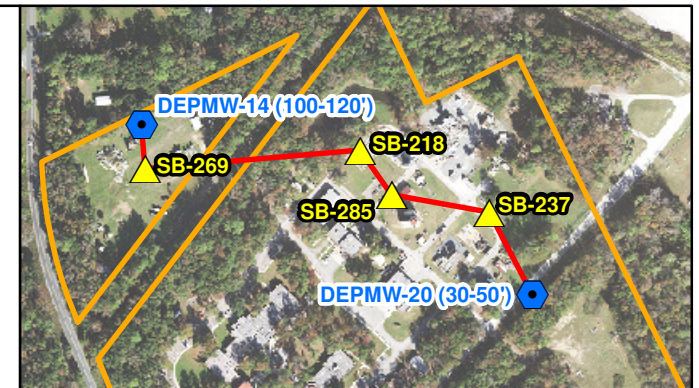


Figure 7
Cross Section A-A'
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. Depth is presented in feet below land surface (ft BLS).
2. Screen interval is presented in feet (') BLS
3. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.



200 Feet
 Scale is Approximate



Date: June 03, 2022

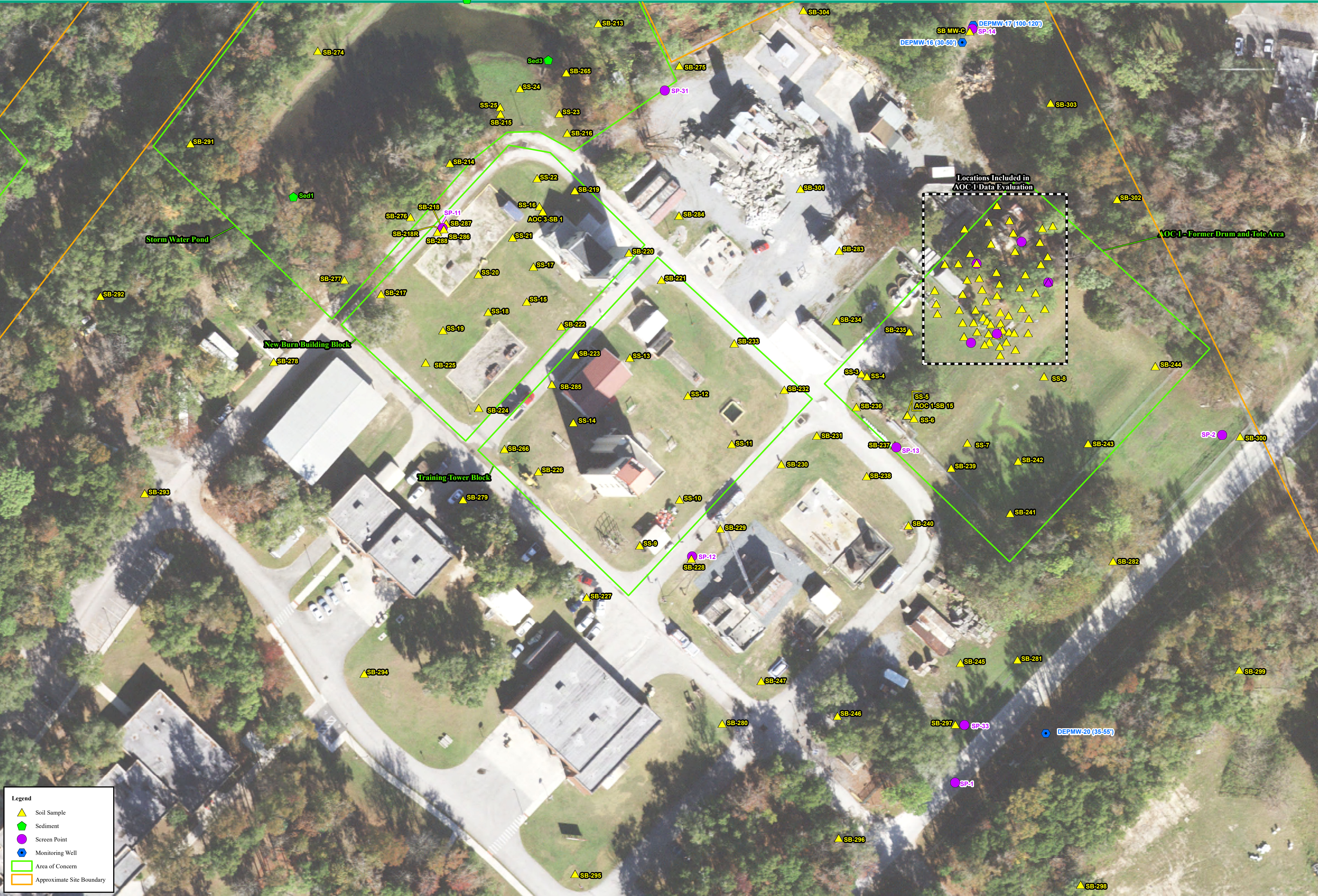
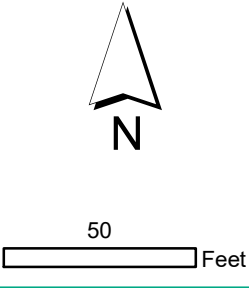


Figure 8
Sampling Locations in New Burn Building Block, Training Tower Block, and Former Drum and Tote (AOC 1) Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:
1. AOC indicates area of concern.
2. Screen interval is presented in feet (') below land surface.
3. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.



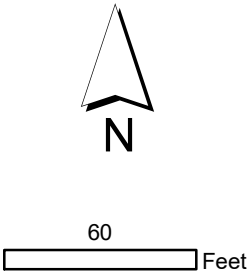
Date: June 01, 2022



Figure 9
Sampling Locations in Storm Water Pond and New Burn Building Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:
 1. AOC indicates area of concern.
 2. Screen interval is presented in feet (') below land surface.
 3. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Date: June 01, 2022



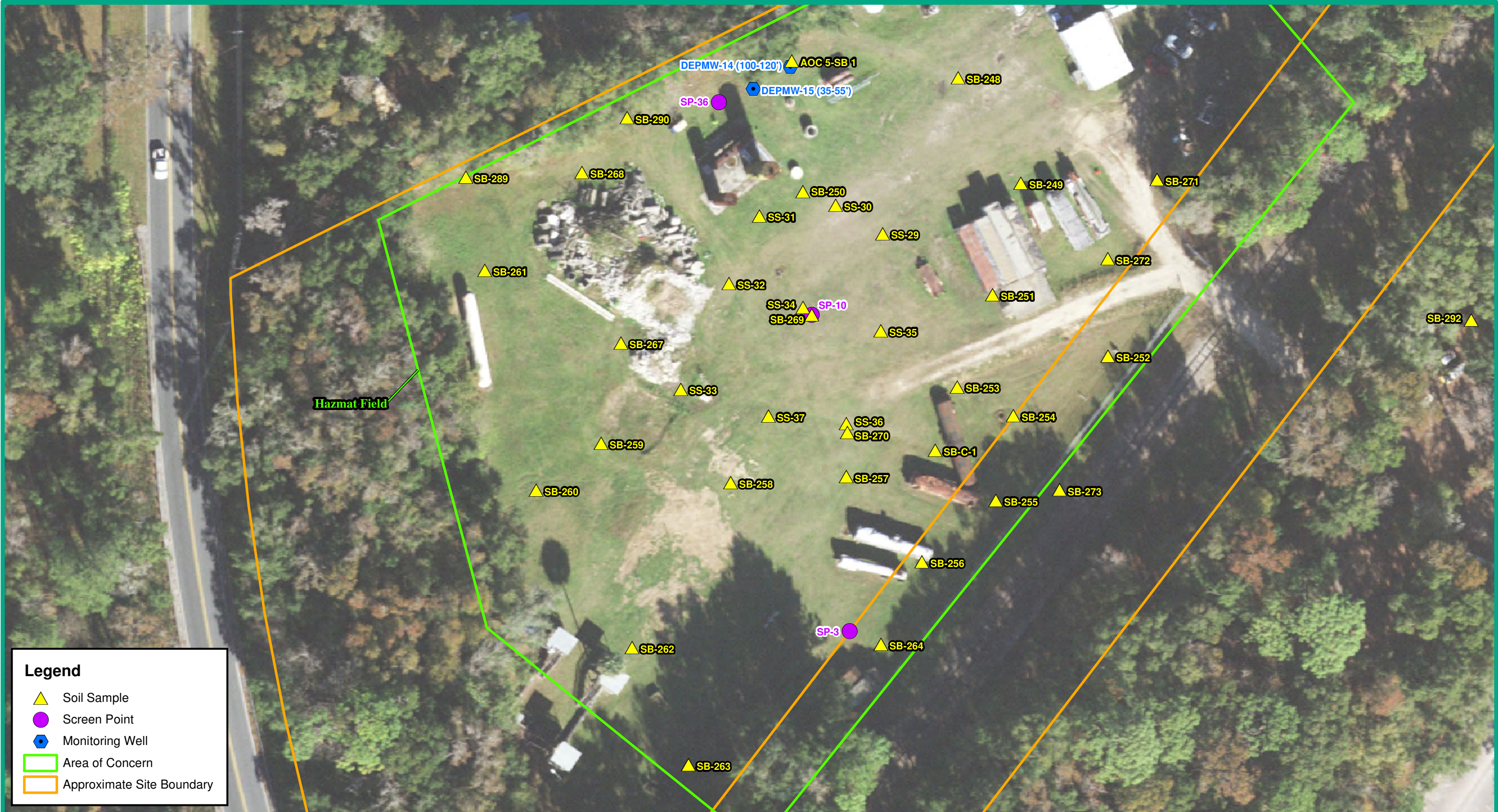
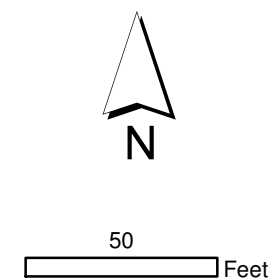


Figure 10
Sampling Locations in Hazmat Field Area
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

- Notes:**
1. AOC indicates area of concern.
 2. Screen interval is presented in feet (') below land surface.
 3. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Date: May 25, 2022





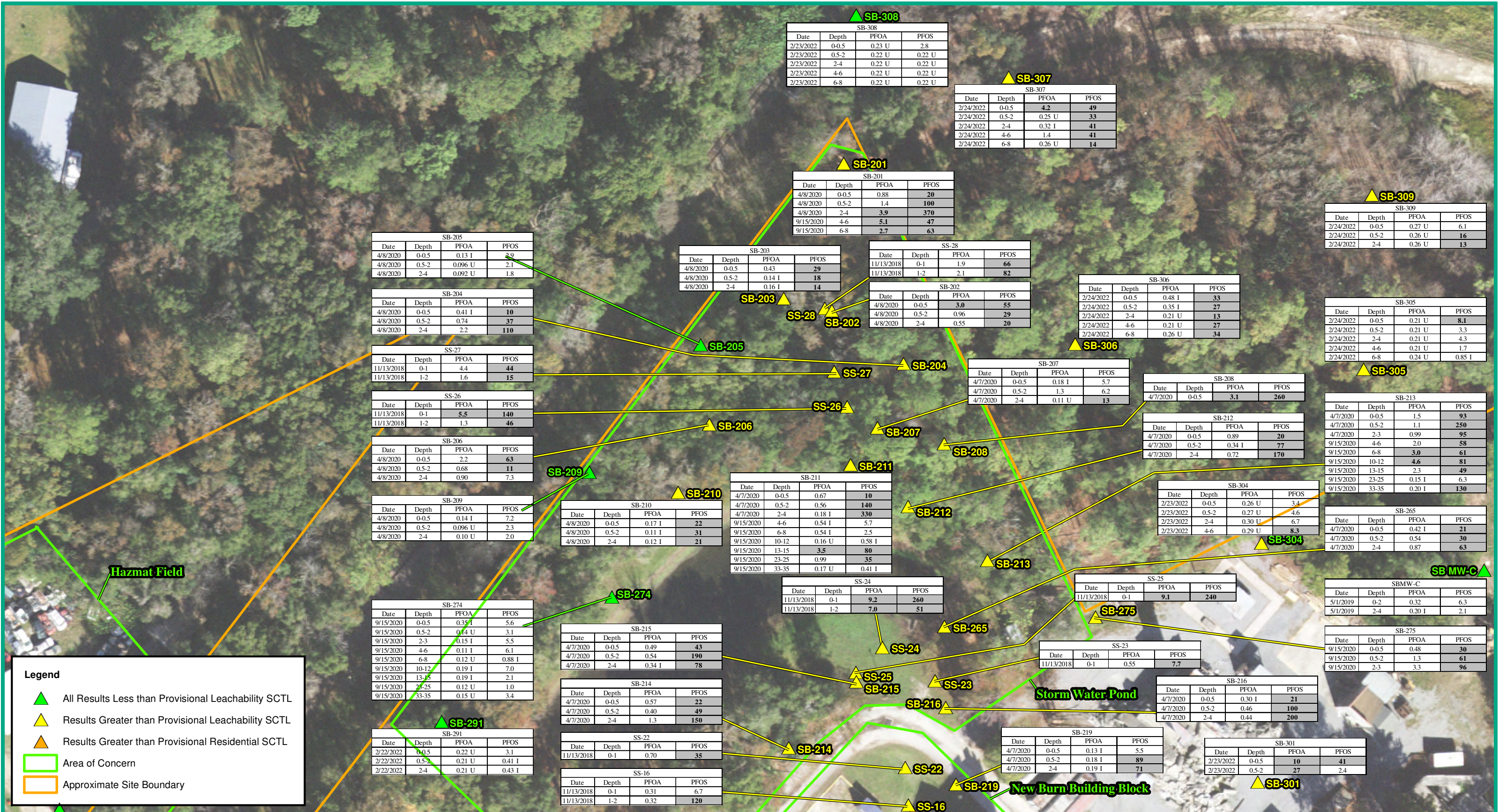


Figure 12
Summary of Analytical Results in Soil
Storm Water Pond and New Burn Building Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected (the MDL is shown).
4. Depth is presented in feet below land surface.
5. Gray shaded, bold text indicates an exceedance of the Florida Department of Environmental Protection (FDEP) provisional leachability soil cleanup target level (SCTL).
6. Yellow shaded, bold text indicates an exceedance of the FDEP provisional residential SCTL.
7. AOC indicates area of concern.
8. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)	Perfluorooctanesulfonic acid (PFOS)
Leachability SCTL	2	7
Residential SCTL	1300	1300
Industrial SCTL	25000	25000

60 Feet

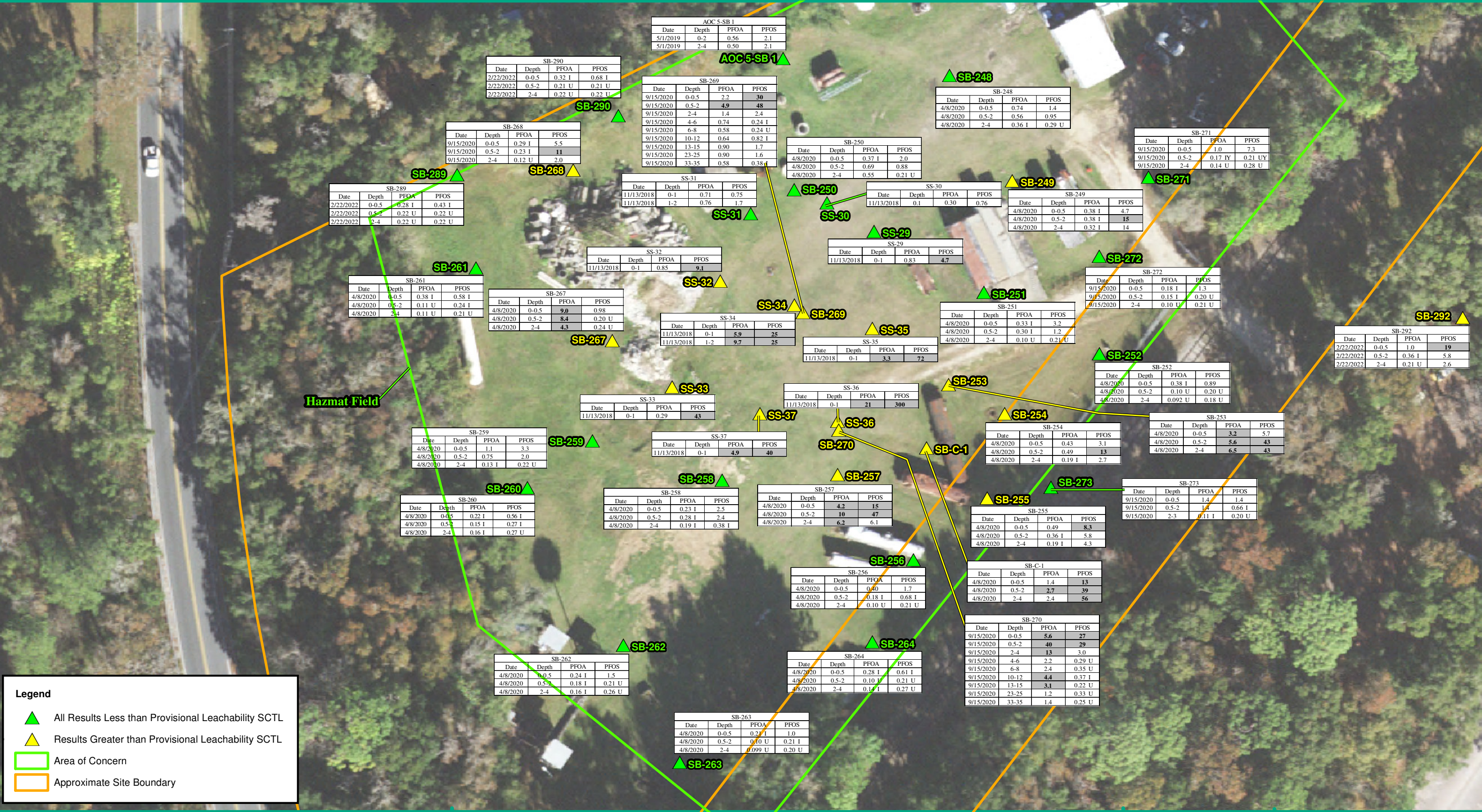




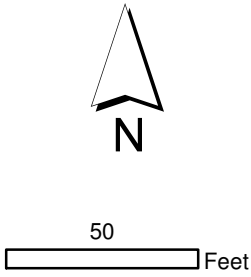
Figure 14
Summary of PFOS in Soil from 0 to 0.5 ft BLS in
New Burn Building Block and Training Tower Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/Kg).
2. * indicates location was collected during 2018 and 2019 preliminary assessment activities from 0 to 1 feet (ft) below land surface (BLS).
3. * indicates value not used to generate contour.
4. SCTL indicates soil cleanup target level.
5. AOC indicates area of concern.
6. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Provisional Cleanup Target Level	Perfluorooctanesulfonic acid (PFOS)
Leachability SCTL	7
Residential SCTL	1,300
Industrial SCTL	25,000

Date: June 03, 2022



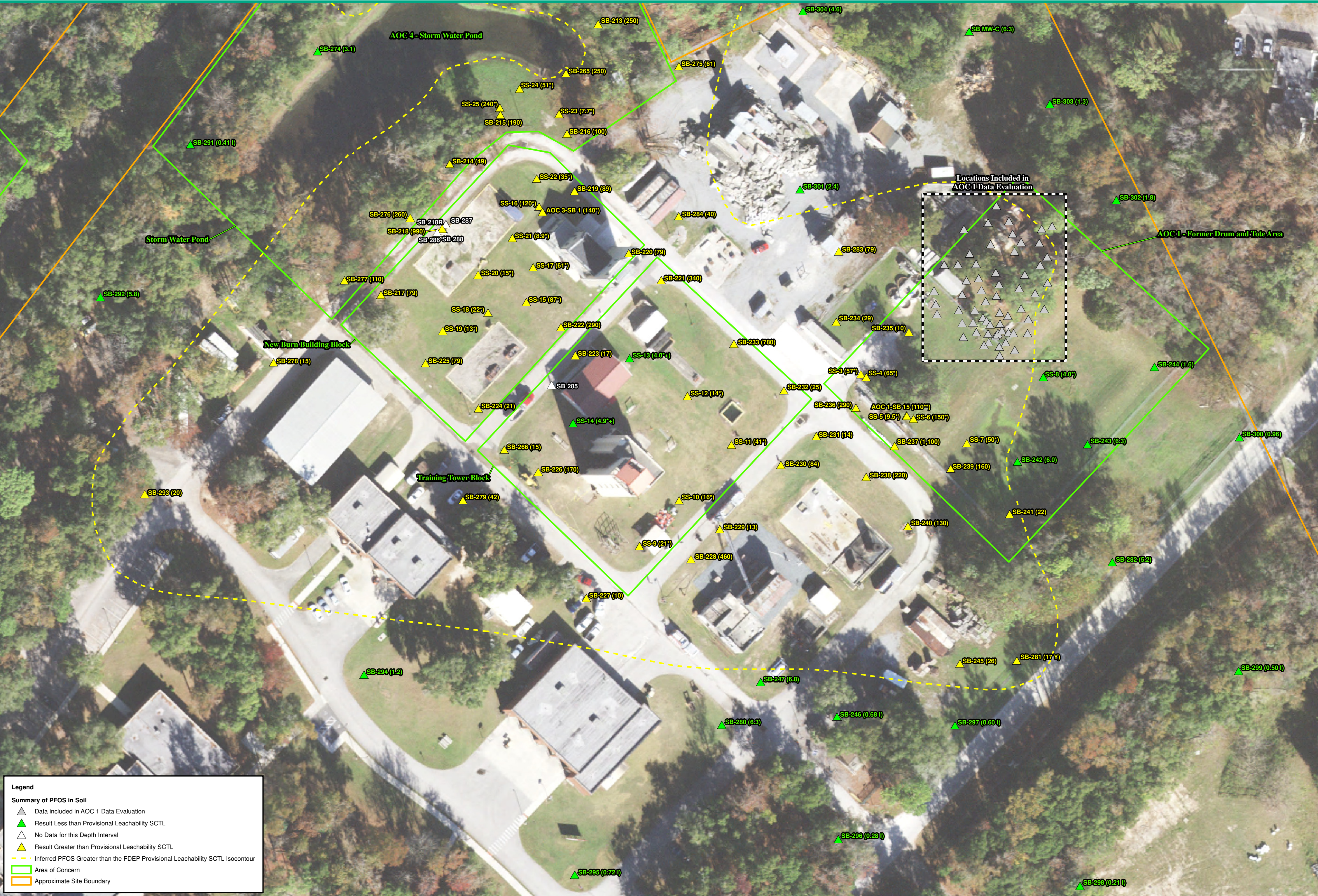
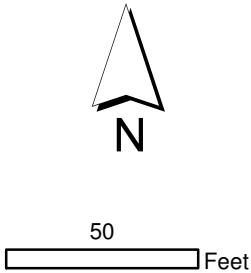


Figure 15
Summary of PFOS in Soil from 0.5 to 2 ft BLS in
New Burn Building Block and Training Tower Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. Results and screening criteria are presented in micrograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. Y indicates the laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
4. * indicates location was collected during 2018 and 2019 preliminary assessment activities from 0 to 1 or 1 to 2 feet (ft) below land surface (BLS).
5. ** indicates location was collected during 2019 preliminary assessment activities from 0 to 2 ft BLS.
6. + indicates value not used to generate contour.
7. SCTL indicates soil cleanup target level.
8. AOC indicates area of concern.
9. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Provisional Cleanup Target Level	Perfluorooctanesulfonic acid (PFOS)
Leachability SCTL	7
Residential SCTL	1,300
Industrial SCTL	25,000



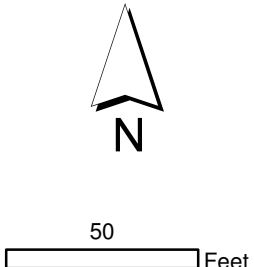
Date: June 02, 2022



Figure 16
Summary of PFOS in Soil from 2 to 4 ft BLS in
New Burn Building Block and Training Tower Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:
1. Results and screening criteria are presented in micrograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. * indicates location was collected during 2018 preliminary assessment activities from 3 to 4 feet (ft) below land surface (BLS).
4. *** indicates location was collected during 2019 preliminary assessment activities from 2.5 to 5 ft BLS.
5. * indicates value not used to generate contour.
6. SCTL indicates soil cleanup target level.
7. AOC indicates area of concern.
8. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Provisional Cleanup Target Level	Perfluorooctanesulfonic acid (PFOS)
Leachability SCTL	7
Residential SCTL	1,300
Industrial SCTL	25,000



Date: June 02, 2022

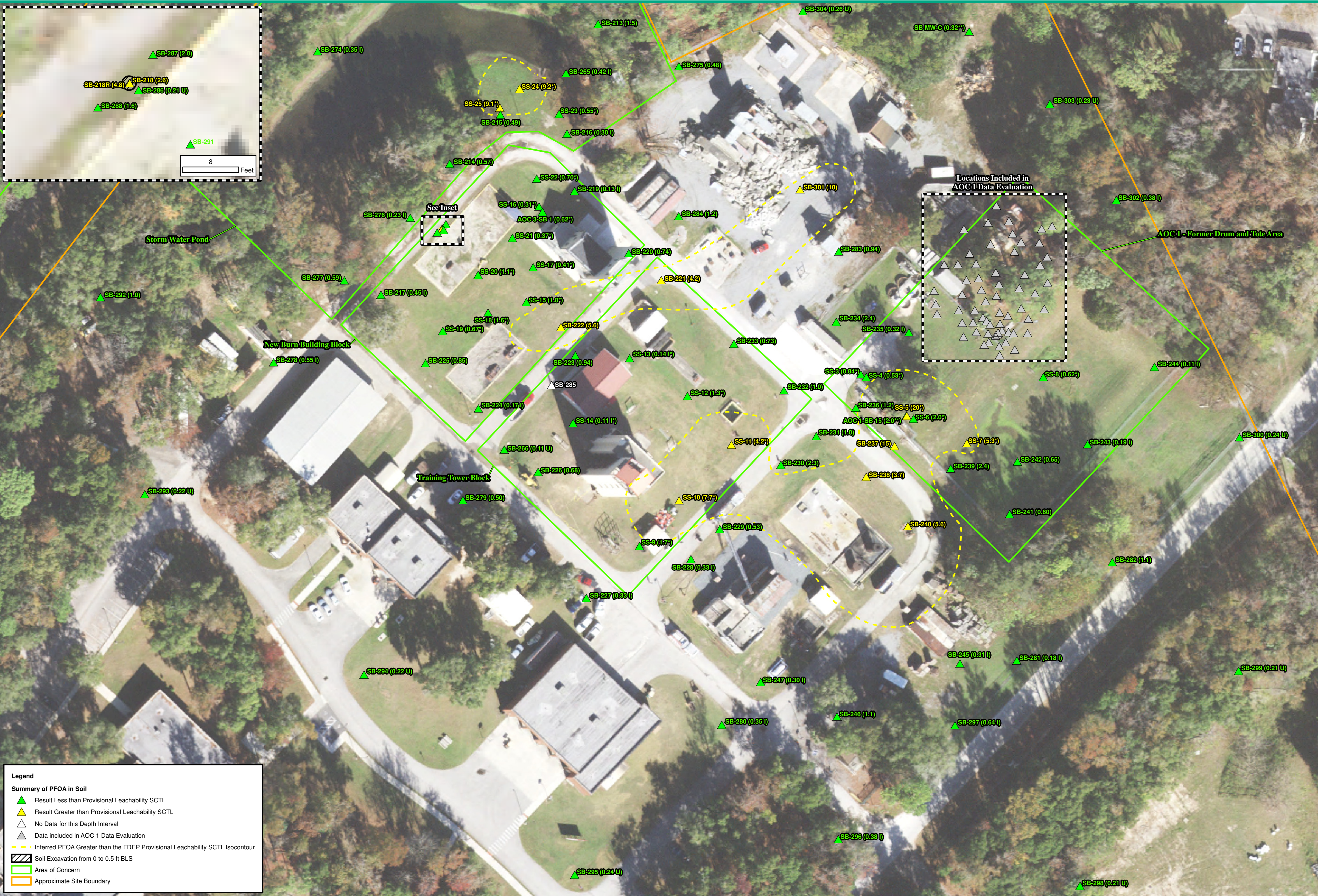
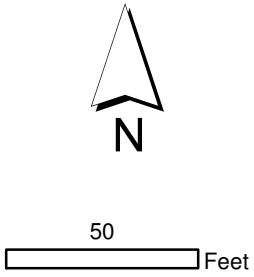


Figure 17
Summary of PFOA in Soil from 0 to 0.5 ft BLS in
New Burn Building Block and Training Tower Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:
1. Results and screening criteria are presented in micrograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected (the MDL is shown).
4. * indicates location was collected during 2018 and 2019 preliminary assessment activities from 0 to 1 feet (ft) below land surface (BLS).
5. SCTL indicates soil cleanup target level.
6. AOC indicates area of concern.
7. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)
Leachability SCTL	2
Residential SCTL	1,300
Industrial SCTL	25,000

Date: June 02, 2022



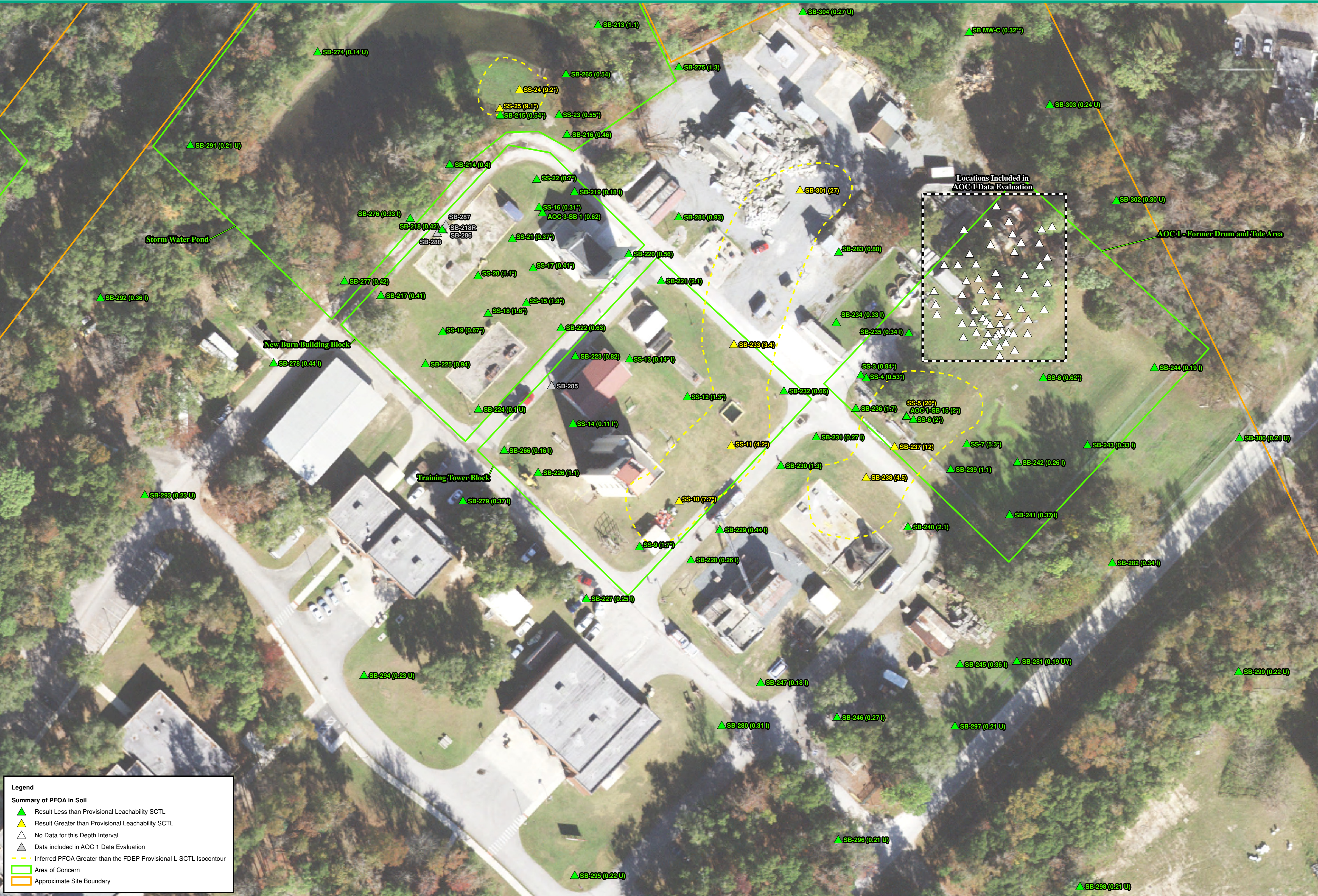
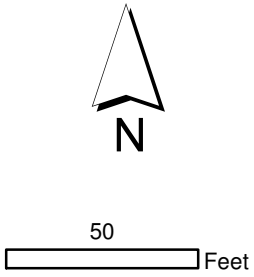


Figure 18
Summary of PFOA in Soil from 0.5 to 2 ft BLS in
New Burn Building Block and Training Tower Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:
1. Results and screening criteria are presented in micrograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected (the laboratory MDL is shown).
4. Y indicates the laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
5. * indicates location was collected during 2018 and 2019 preliminary assessment activities from 0 to 1 or 1 to 2 feet (ft) below land surface (BLS).
6. ** location was collected during 2019 preliminary assessment activities from 0 to 2 ft BLS.
7. + indicates value not used to generate contour.
8. SCTL indicates soil cleanup target level.
9. AOC indicates area of concern.
10. Source of 2017 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)
Leachability SCTL	2
Residential SCTL	1,300
Industrial SCTL	25,000



Date: June 02, 2022

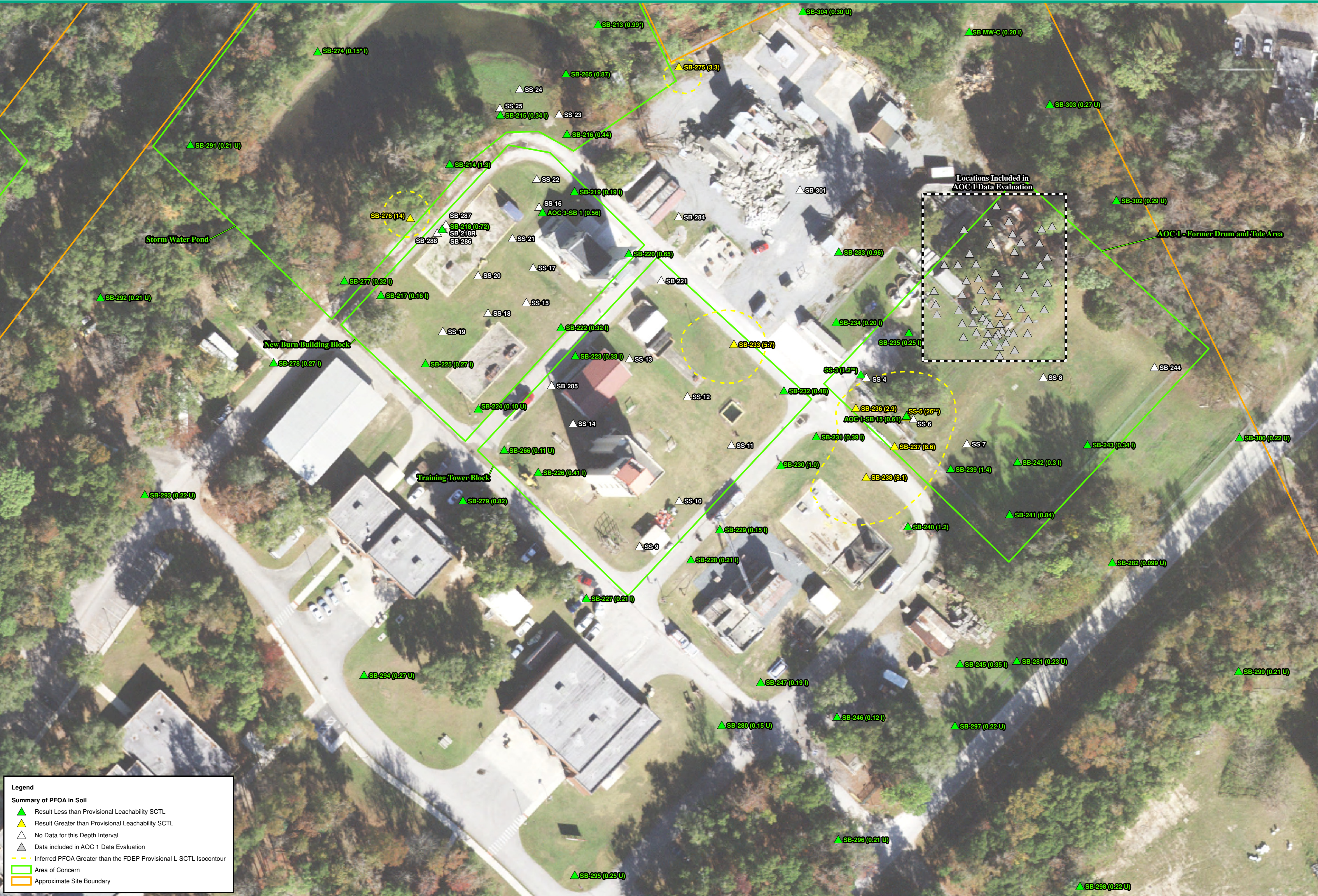
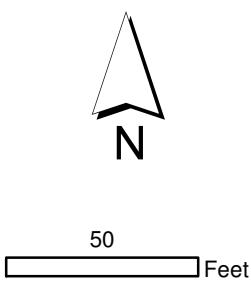


Figure 19
Summary of PFOA in Soil from 2 to 4 ft BLS in
New Burn Building Block and Training Tower Block Areas
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:
1. Results and screening criteria are presented in micrograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected (the laboratory MDL is shown).
4. * indicates soil sample was taken from 2-3 feet (ft) below land surface (BLS) due to refusal encountered during hand auguring.
5. ** indicates location was collected during 2018 preliminary assessment activities from 3 to 4 feet (ft) below land surface (BLS).
6. *** indicates location was collected during 2019 preliminary assessment activities from 2.3 to 5 ft BLS.
7. + indicates value not used to generate contour.
8. SCTL indicates soil cleanup target level.
9. AOC indicates area of concern.
10. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Provisional Cleanup Target Level	Perfluorooctanoic acid (PFOA)
Leachability SCTL	2
Residential SCTL	1,300
Industrial SCTL	25,000



Date: June 02, 2022









Figure 23
Summary of PFOA in Soil from 0 to 0.5 ft BLS in Storm Water Pond and Off-Site
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. Results and screening critiera are presented in micograms per kilogram ($\mu\text{g/Kg}$).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. * indicates location was collected during 2018 and 2019 preliminary assessment activities from 0 to 1 feet (ft) below land surface (BLS).
4. ** indicates location was collected during 2019 preliminary assessment activities from 0 to 2 ft BLS.
5. SCTL indicates soil cleanup target level.
6. AOC indicates area of concern.
7. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

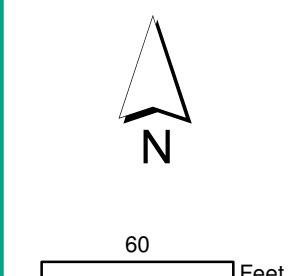




Figure 24

Summary of PFOA in Soil from 0.5 to 2 ft BLS in Storm Water Pond and Off-Site

Florida State Fire College

11655 NW Gainesville Road

Ocala, Marion County, Florida

Notes:

1. Results and screening critiera are presented in micograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected (the laboratory MDL is shown).
4. * indicates location was collected during 2018 and 2019 preliminary assessment activities from 0 to 1 or 1 to 2 feet (ft) below land surface (BLS).
5. ** indicates location was collected during 2019 preliminary assessment activities from 0 to 2 ft BLS.
6. + indicates value not used to generate contour.
7. SCTL indicates soil cleanup target level.
8. AOC indicates area of concern.
9. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Date: June 02, 2022

60 Feet



Figure 25
Summary of PFOA in Soil from 2 to 4 ft BLS in Storm Water Pond and Off-Site
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. Results and screening critiera are presented in micograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected (the laboratory MDL is shown).
4. * indicates soil sample was taken from 2-3 feet (ft) below land surface (BLS) due to refusal encountered during hand augering.
4. SCTL indicates soil cleanup target level.
5. AOC indicates area of concern.
6. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.



60 Feet







Figure 27
Summary of PFOS in Soil from 0.5 to 2 ft BLS in
Hazmat Field Area
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Date: June 02, 2022

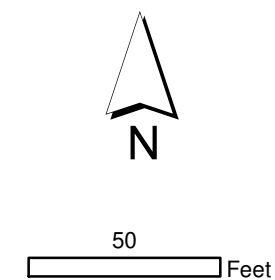




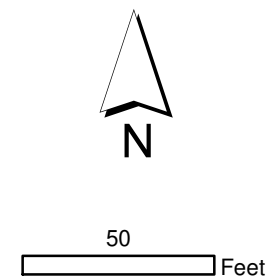




Figure 31
Summary of PFOA in Soil from 2 to 4 ft BLS in Hazmat Field Area
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

1. Results and screening critiera are presented in micograms per kilogram (µg/Kg).
2. I indicates result is between the laboratory method detection limit (MDL) and the laboratory practical quantitation limit.
3. U indicates that the compound was analyzed for but not detected (the laboratory MDL is shown).
4. ft BLS indicates feet below land surface.
5. SCTL indicates soil cleanup target level.
6. AOC indicates area of concern.
7. Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.



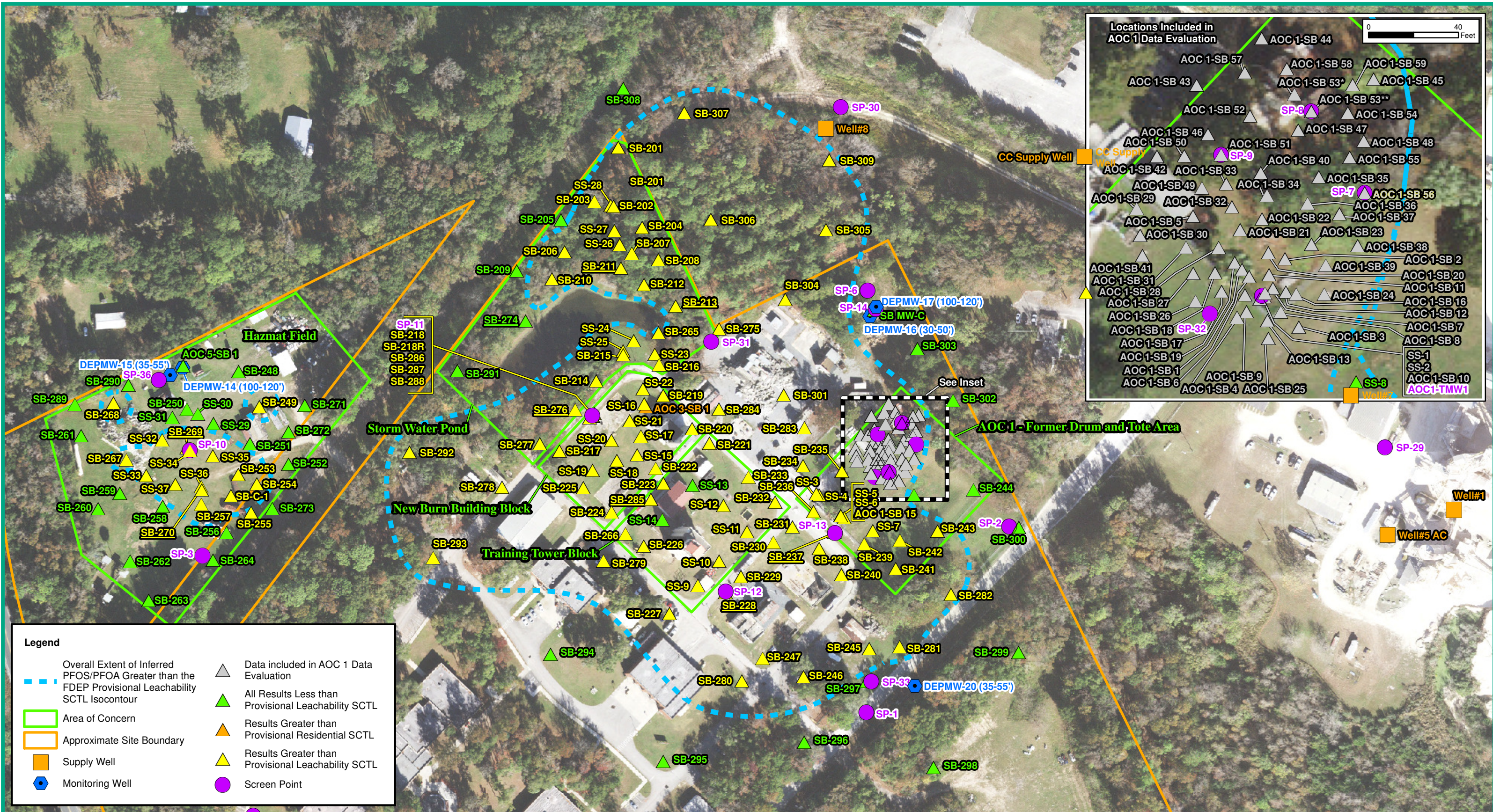
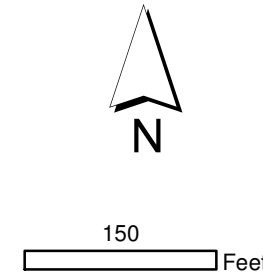


Figure 32
Overall Extent of Inferred PFOA and PFOS in Soil
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Date: June 03, 2022



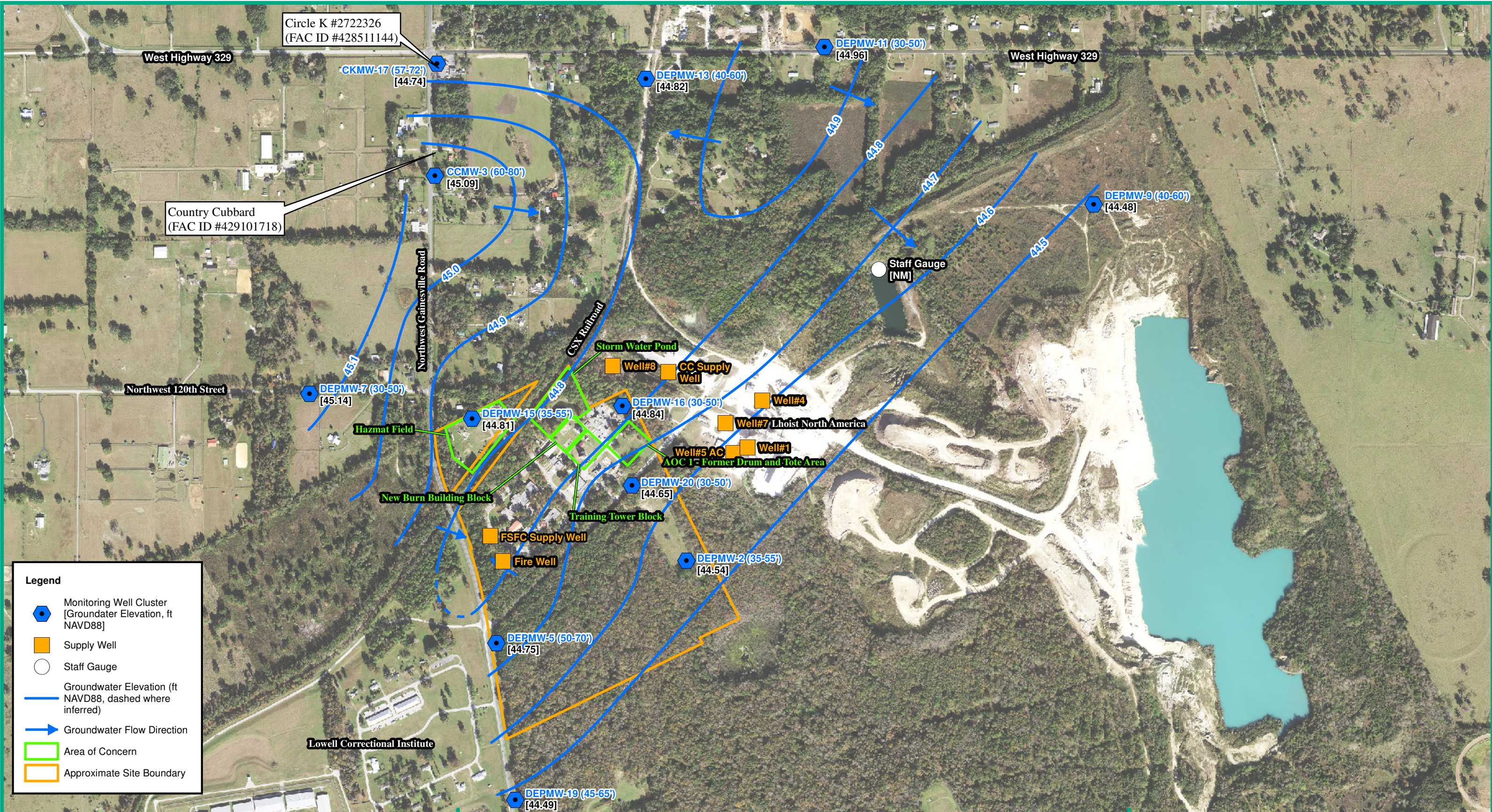
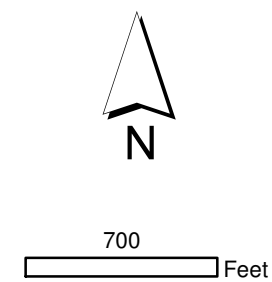


Figure 33
Groundwater Elevation Map from 30 to 80' BLS
 22 February 2022
 Florida State Fire College
 11655 NW Gainesville Road
 Ocala, Marion County, Florida

Date: June 03, 2022



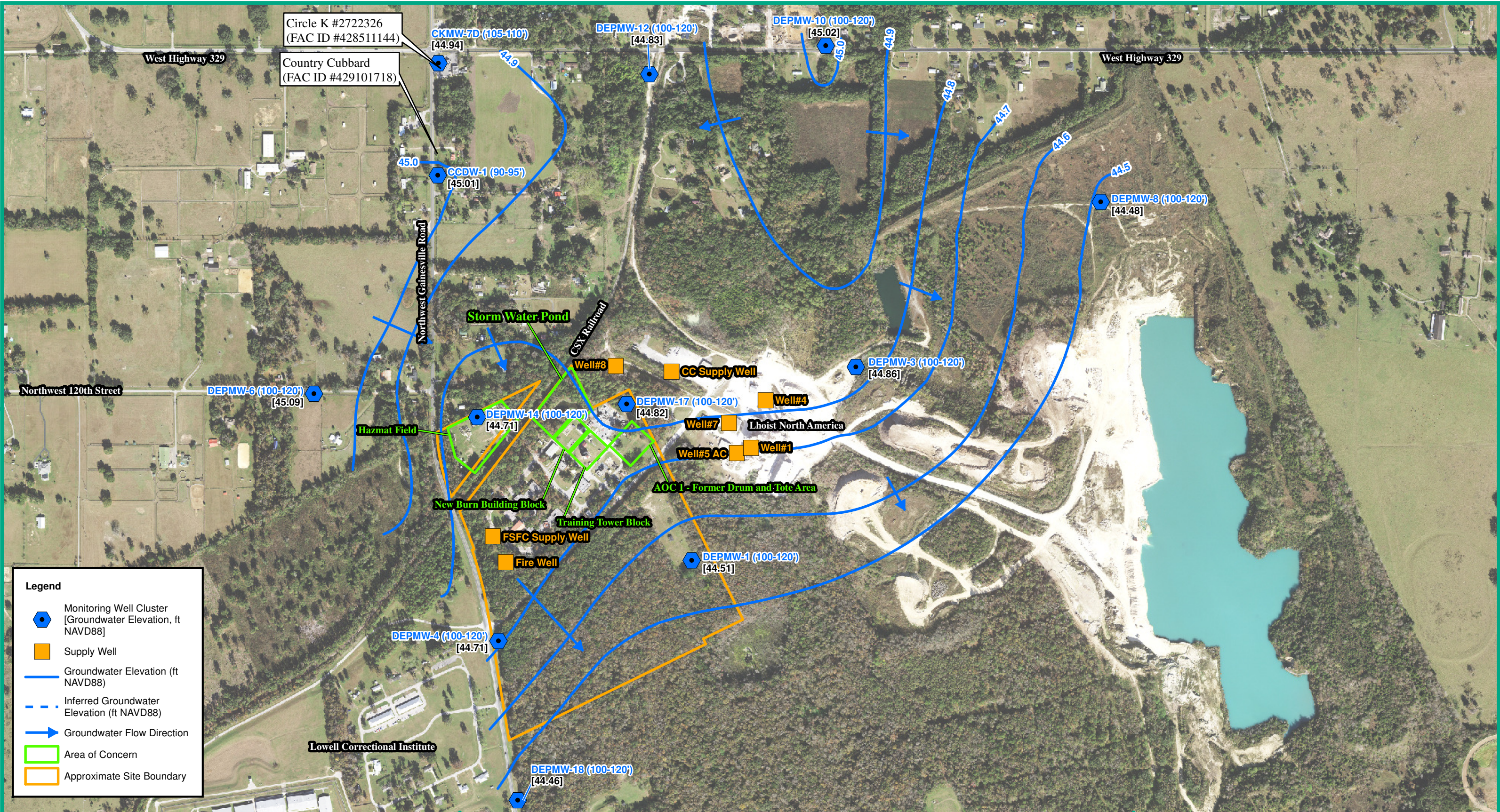
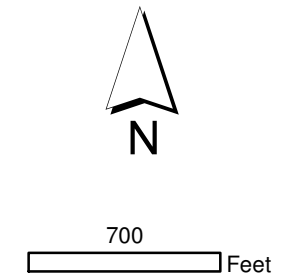


Figure 34
Groundwater Elevation Map from 90 to 120' BLS
 22 February 2022
 Florida State Fire College
 11655 NW Gainesville Road
 Ocala, Marion County, Florida



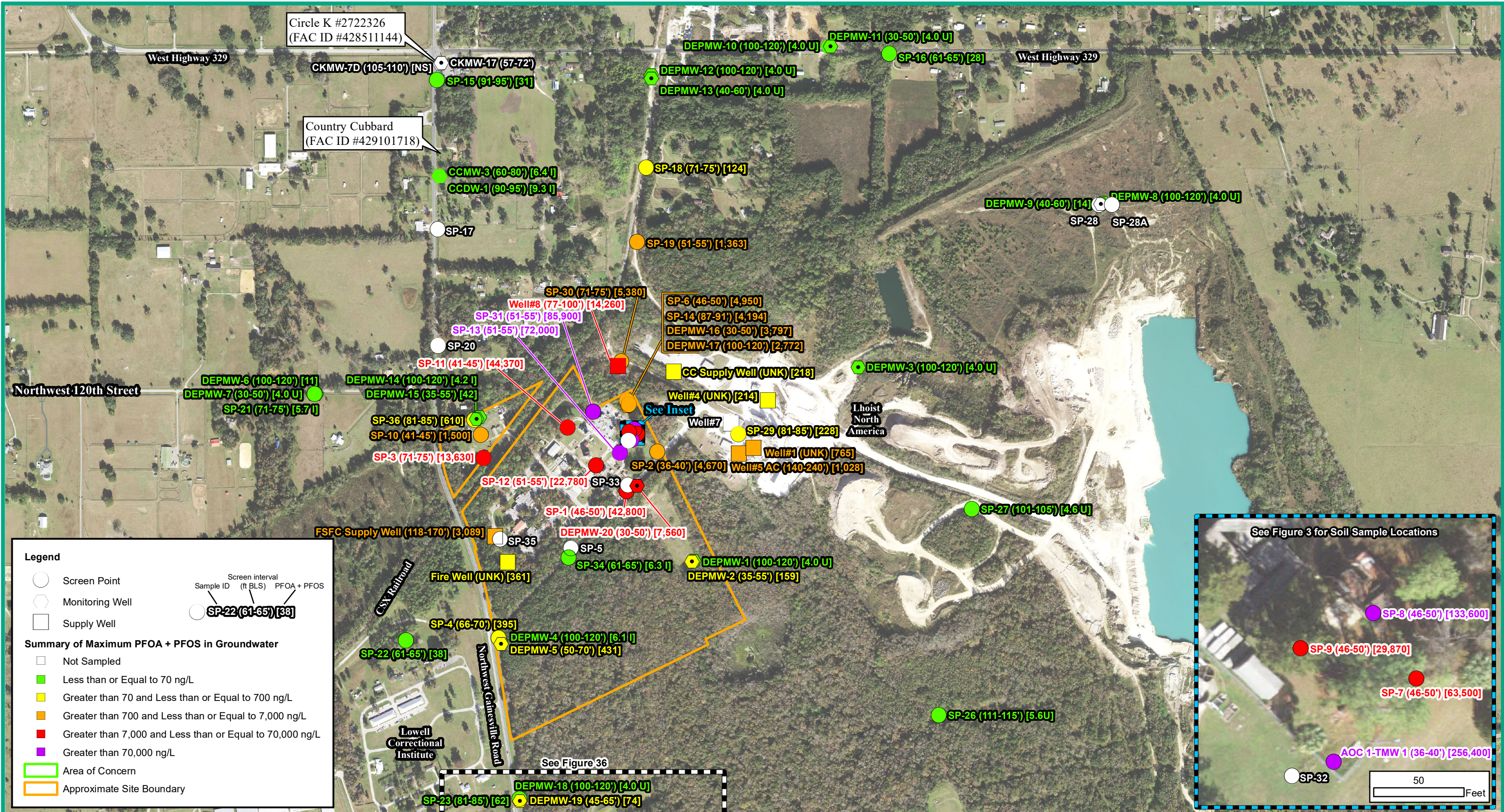
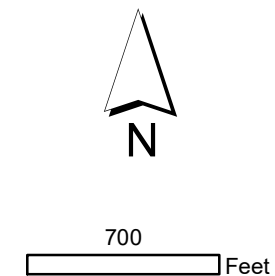


Figure 35
Summary of Maximum Concentrations of PFOA + PFOS
in Groundwater
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

- AOC indicates area of concern.
- Results are presented in nanograms per liter (ng/L).
- Screen interval is presented in feet (') below land surface. Screened intervals presented for screen point locations are the interval associated with the presented data.
- UNK indicates the screened interval is unknown and data is not available.
- PFOA + PFOS indicates the summation of perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS).
- Screening based on the Florida Department of Environmental Protection provisional groundwater cleanup target level (GCTL) of 70 ng/L.
- I indicates the result is between the laboratory method detection limit and the practical quantitation limit.
- U indicates the compound was analyzed for but not detected.
- Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Date: June 01, 2022



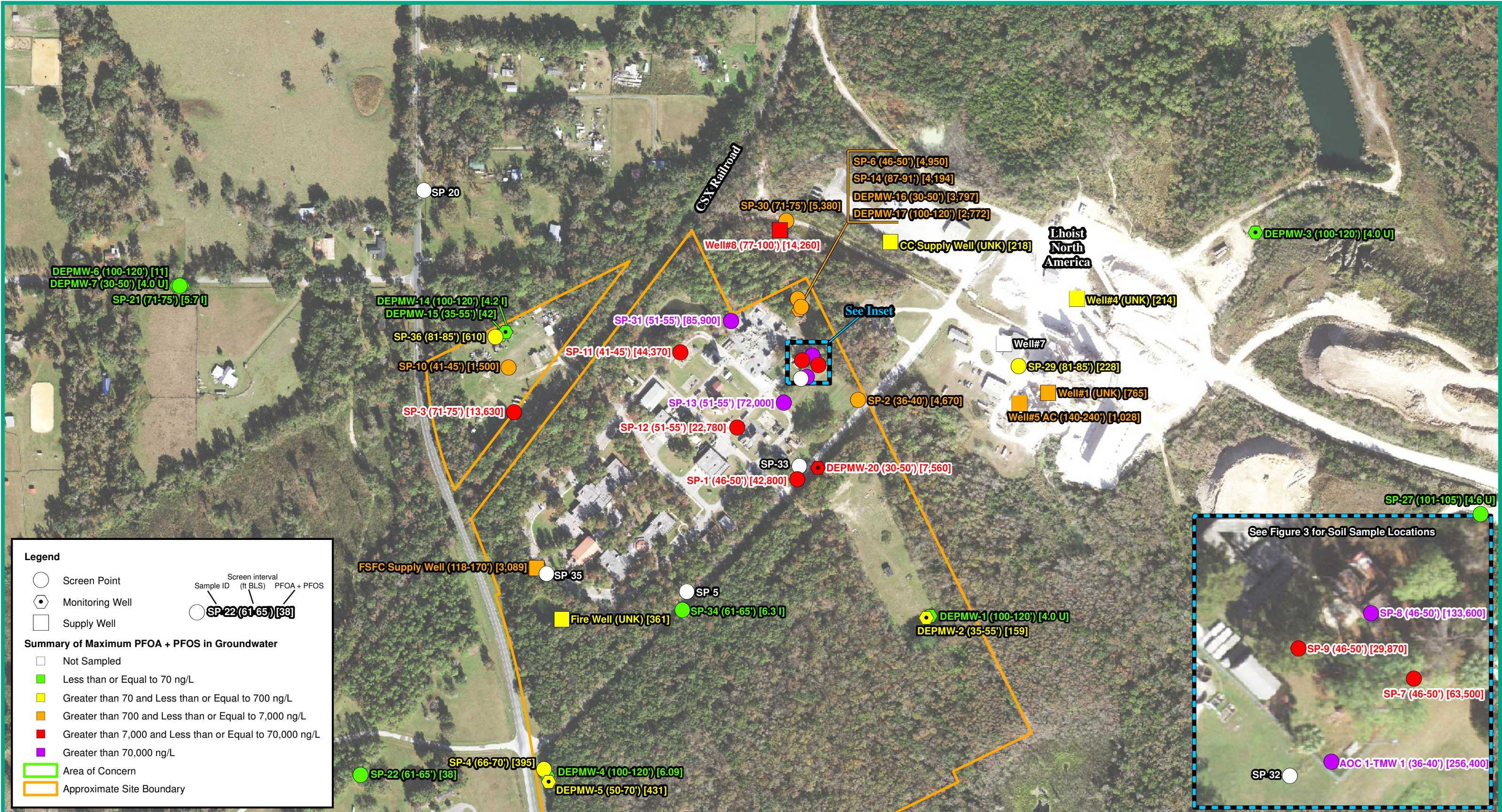
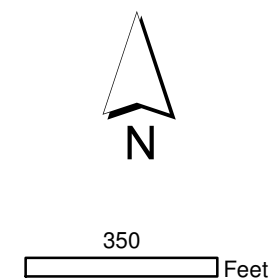


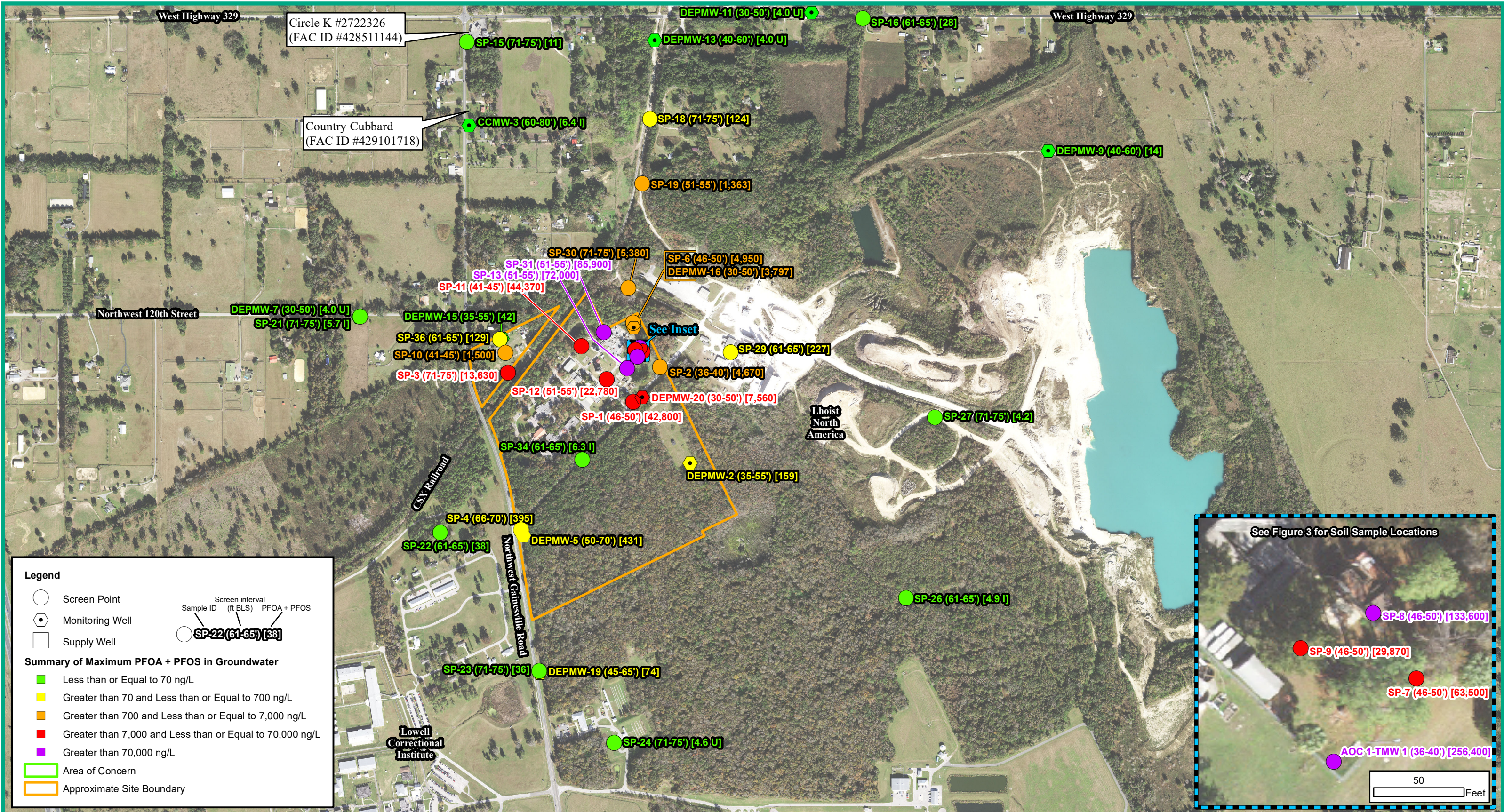
Figure 37
Summary of Maximum Concentrations of PFOA + PFOS in On-Site Groundwater
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

- AOC indicates area of concern.
- Results are presented in nanograms per liter (ng/L).
- Screen interval is presented in feet (') below land surface. Screened intervals presented for screen point locations are the interval associated with the presented data.
- UNK indicates the screened interval is unknown and data is not available.
- PFOA + PFOS indicates the summation of perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS).
- Screening based on the Florida Department of Environmental Protection provisional groundwater cleanup target level (GCTL) of 70 ng/L.
- I indicates the result is between the laboratory method detection limit and the practical quantitation limit.
- U indicates the compound was analyzed for but not detected.
- Source of 2020 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Date: May 26, 2022





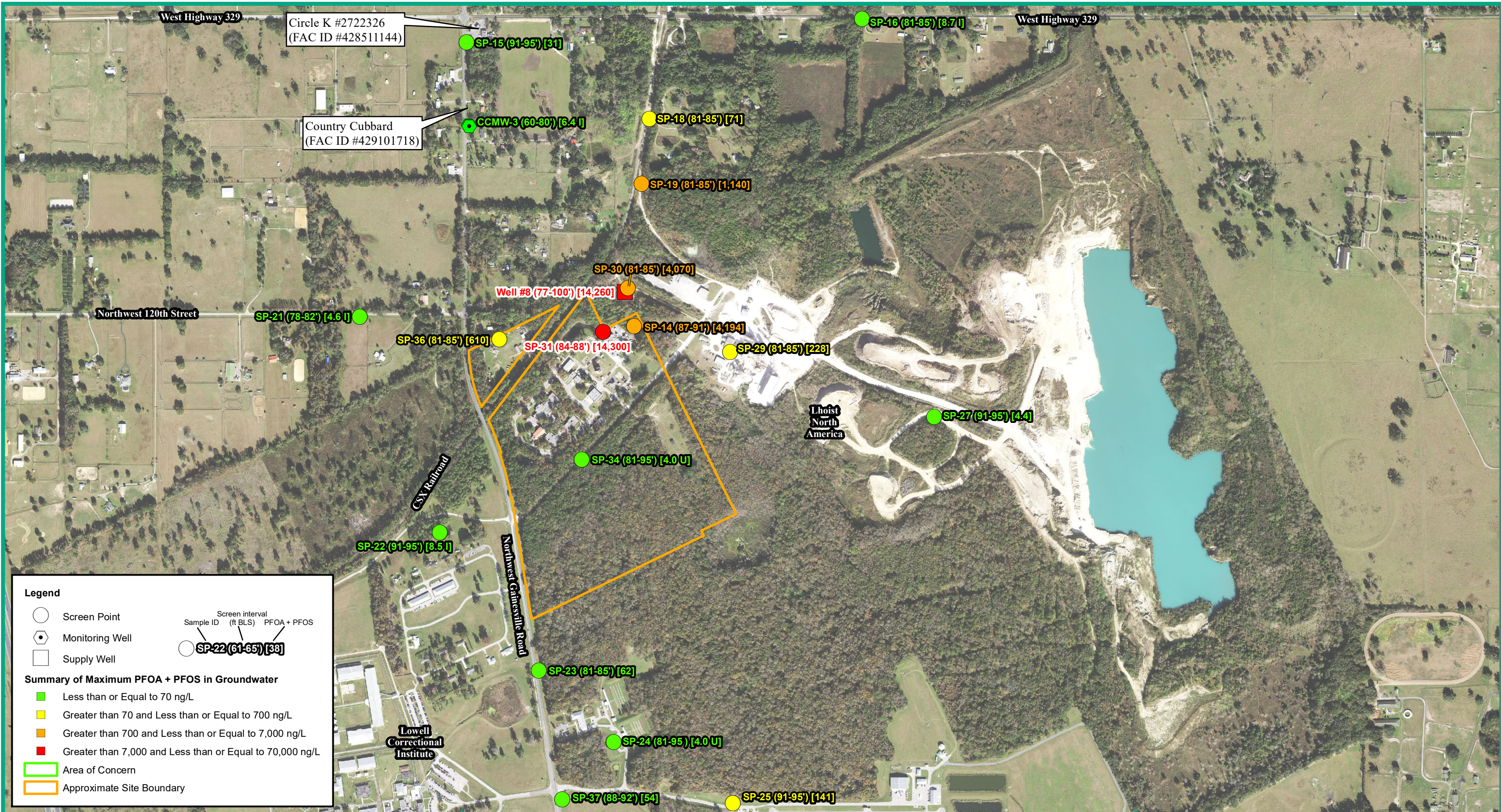
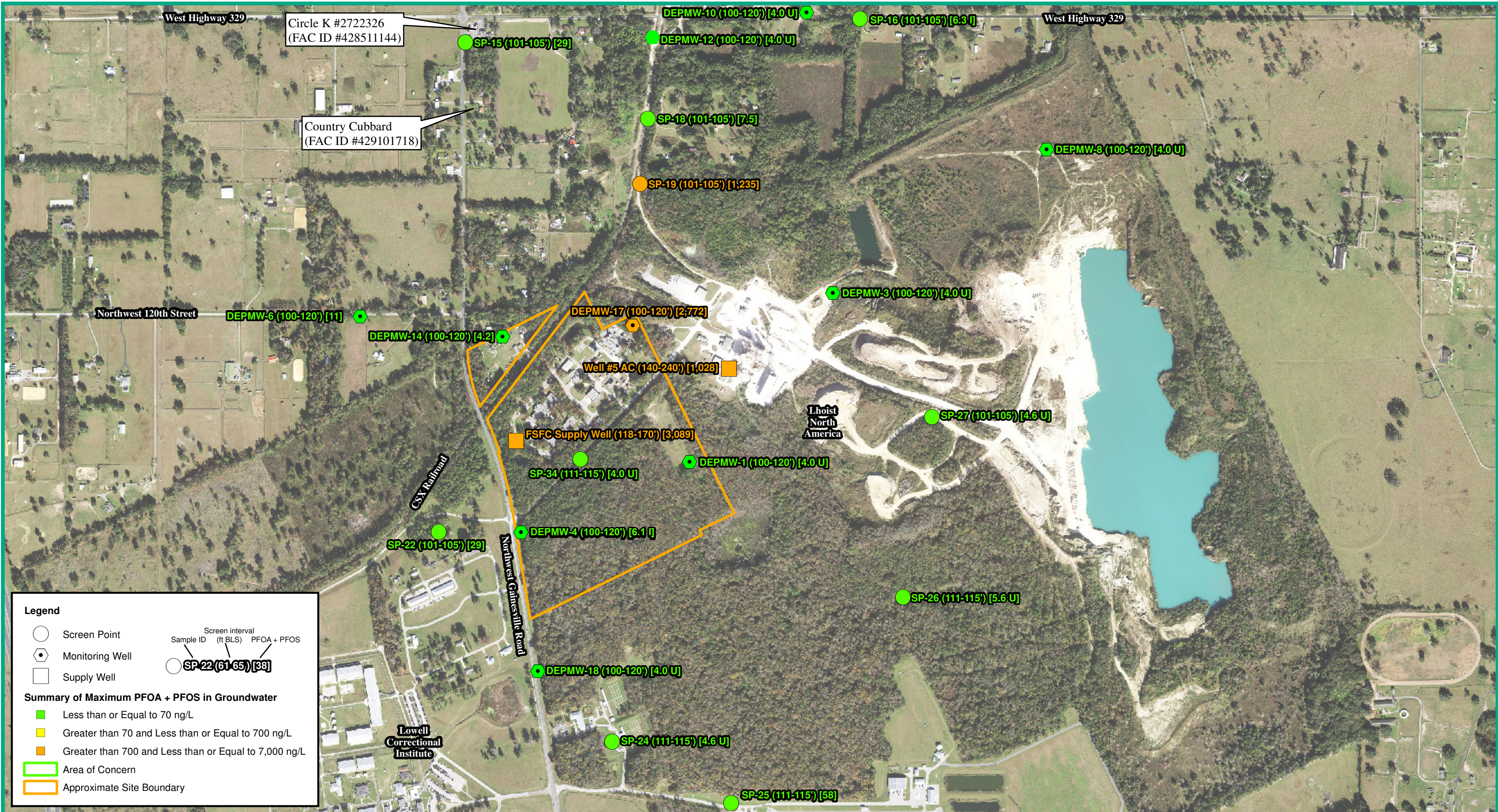


Figure 39
Summary of Maximum PFOA and PFOS
in Groundwater from 75 to 100' BLS
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida



APPENDIX A
University of Florida Letters for Screening and
Provisional Cleanup Target Levels

April 16, 2018

Brian Dougherty, PhD
Program Manager
District and Business Support Program
Division of Waste Management
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Development of alternative soil cleanup target levels for PFOA and PFOS

Dear Dr. Dougherty:

At your request, we have developed alternative soil cleanup target levels (ASCTLs) for perfluorooctanoic acid (PFOA; CAS# 335-67-1) and perfluorooctane sulfonate (PFOS; CAS# 1763-23-1). PFOA and PFOS are perfluoroalkyl substances (PFASs). PFASs are used to make products resistant to stains, grease, and water. Before production was phased out at the end of 2015, PFOA was used in carpets, leathers, textiles, upholstery, and as a waterproofing or stain-resistant agent (USEPA, 2016a). In 2002, the only major US manufacturer of PFOS agreed to phase out production. However, PFOA and PFOS degrade slowly and are persistent in the environment. Most contamination by PFOA and PFOS is a result of releases from manufacturing sites, industrial sites, fire training areas, and waste sites where these chemicals were disposed (USEPA, 2016a & 2016b). Derivation of the ASCTLs for each chemical is described below.

Perfluorooctanoic Acid (PFOA)

The United States Environmental Protection Agency (USEPA) summarized toxicity studies for PFOA in the Drinking Water Health Advisory for PFOA (USEPA, 2016a). For reference dose (RfD) development, several candidate studies and health effect endpoints were evaluated (Perkins et al., 2004; Lau et al., 2006; Wolf et al., 2007; White et al., 2009; DeWitt et al., 2008; Butenhoff et al., 2004). A total of six candidate RfDs were considered based upon endpoints including increased liver weight and necrosis in rats, decreased pup weight from gestational exposure in mice, immunosuppression in mice, reduced ossification and accelerated male puberty in offspring of mice, and reduced body weight and increased kidney weight (relative and absolute) in rats. For each animal toxicity study, human equivalent average serum PFOA concentrations were derived using a pharmacokinetic model by Wambaugh et al. (2013). An oral reference dose (RfD) was derived for each human equivalent no observed adverse effect level (NOAEL) or lowest observed adverse effect level (LOAEL) using study-specific uncertainty factors. Three endpoints resulted in a RfD of 2E-05 mg/kg-d (the lowest calculated RfD). Among these, reduced ossification of the proximal phalanges and accelerated puberty in offspring from treated dams in the study by Lau et al. (2006) were selected as the critical

effect(s). Other studies producing the same or similar RfD values are considered supportive. Data were not considered adequate to derive a reference concentration (RfC) for inhalation exposure.

In the Lau et al. (2006) study, pregnant CD-1 mice were dosed with 1, 3, 5, 10, 20, or 40 mg/kg PFOA by oral gavage daily from gestational day 1 to 17. Decreased ossification of pup (both sexes) proximal phalanges and accelerated preputial separation were seen at 1 mg/kg PFOA. The USEPA calculated a human equivalent point of departure of 5.3E-03 mg/kg-d for these endpoints. An uncertainty factor of 300 (3 for extrapolation from animal to human, 10 for extrapolation from LOAEL to NOAEL, and 10 for sensitive individuals) was applied to derive an oral RfD of 2E-05 mg/kg-d. Greater than 95% of PFOA is absorbed by the gastrointestinal tract (ATSDR, 2015). Therefore, a gastrointestinal absorption factor of 1 was used to extrapolate the toxicity to other routes of exposure.

PFOA is also carcinogenic and has been shown to be tumorigenic in the liver, testes, and pancreas of rats. In humans, there is epidemiological evidence for an association between serum PFOA and kidney and testicular tumors (USEPA, 2016a). The USEPA developed an oral cancer slope factor of 7E-02 per mg/kg-d based on the development of testicular tumors in rats. They concluded that the drinking water health advisory based on non-cancer effects was protective for the cancer endpoint. We also calculated ASCTLs based on the oral cancer slope factor of 7E-02 per mg/kg-d (ASCTLs not shown). These ASCTLs were higher than those protective of non-cancer endpoints confirming that ASCTLs based on non-cancer effects are protective of the cancer endpoint.

Direct exposure ASCTLs for residential and commercial/industrial scenarios were calculated using the formula presented in Figure 5 of Chapter 62-777, Florida Administrative Code (F.A.C.). The equation is shown in Figure 1. Default assumptions listed in Table 1 were taken from OSWER Directive 9200.1-120 (USEPA, 2014) and Table 3 of Chapter 62-777, F.A.C. Chemical-specific parameters are presented in Table 2. **The residential ASCTL for PFOA is 1.3 mg/kg and the commercial/industrial ASCTL is 25 mg/kg.** A leachability ASCTL was derived using the formula presented in Figure 8 of Chapter 62-777, FAC. The equation is shown in Figure 2 and inputs are listed in Table 1. **The ASCTL for leachability to groundwater is 0.004 mg/kg** (based on an alternative groundwater cleanup target level of 0.1 µg/L provided to you in a letter dated April 12, 2017).

Perfluorooctane Sulfonate (PFOS)

The USEPA summarized toxicity studies for PFOS in the Drinking Water Health Advisory for PFOS (USEPA, 2016b). Six candidate studies and seven endpoints were identified for the derivation of an RfD for PFOS (Seacat et al., 2002 & 2003; Luebker et al., 2005a & 2005b; Butenhoff et al, 2009; Lau et al., 2003). Candidate endpoints included: 1) increased liver weight and histopathology, decreased body weight, and thyroid hormone disturbances in monkeys; 2) increased liver weight and histopathology, and increased liver enzymes and blood urea nitrogen in serum in male rats; 3) decreased body weight of rat pups; 4) another study showing decreased body weight in rat pups; 5) decreased maternal body weight, gestation length, and pup survival in rats; 6) developmental neurotoxicity in rats; and 7) decreased pup survival and decreased maternal and pup body weight in rats. For each animal toxicity study, human equivalent average serum PFOS concentrations were derived using a pharmacokinetic model by Wambaugh et al. (2013). An oral RfD was derived for each human equivalent NOAEL or LOAEL using study-specific uncertainty factors. Data were not considered adequate to derive a

reference concentration (RfC) for inhalation exposure. The USEPA selected reduced pup weight from a two-generation study in rats as the critical effect. Low body weight was considered to be a marker for developmental effects, including effects that may not be manifested until later in life. This effect is considered relevant to humans because PFOS has been measured in the blood of newborns, in breast milk, and in blood of older children.

The developmental toxicity study by Luebker et al. (2005a) resulted in a RfD of 2E-05 mg/kg-d (the lowest calculated RfD). In this study, male and female rats were dosed with 0, 0.1, 0.4, 1.6, or 3.2 mg/kg-d by gavage from six weeks prior to mating, during mating, and, for females, through gestation and lactation across two generations. Rat pup weight was significantly decreased at 1.6 mg/kg-d PFOS in the F1 generation. The USEPA calculated a human equivalent point of departure of 5.1E-04 mg/kg-d based on decreased rat pup weight in the F1 generation. An uncertainty factor of 30 (3 for extrapolation from animal to human and 10 for sensitive subpopulations) was applied to derive an oral RfD of 2E-05 mg/kg-d. No data are available regarding the gastrointestinal absorption of PFOS. Therefore, a gastrointestinal absorption factor of 1 was used to extrapolate the toxicity to other routes of exposure.

There is also suggestive evidence that PFOS is carcinogenic in humans based on chronic studies in rats that result in liver and thyroid adenomas. However, the tumor data lack a dose-response relationship and could not be used by the USEPA to develop a cancer slope factor. Therefore, the critical effect for PFOS is developmental toxicity.

Direct exposure ASCTLs for residential and commercial/industrial scenarios were calculated using the formula presented in Figure 5 of Chapter 62-777, Florida Administrative Code (F.A.C.). The equation is shown in Figure 1. Default assumptions listed in Table 1 were taken from OSWER Directive 9200.1-120 (USEPA, 2014) and Table 3 of Chapter 62-777, F.A.C. Chemical-specific parameters are presented in Table 2. **The residential ASCTL for PFOS is 1.3 mg/kg and the commercial/industrial ASCTL is 25 mg/kg.** A leachability ASCTL was derived using the formula presented in Figure 8 of Chapter 62-777, FAC. The equation is shown in Figure 2 and inputs are listed in Table 1. **The ASCTL for leachability to groundwater is 0.01 mg/kg** (based on an alternative groundwater cleanup target level of 0.1 µg/L provided to you in a letter dated April 12, 2017).

As with the PFOA and PFOS alternative groundwater cleanup target levels (AGCTLs) provided to you previously, these ASCTLs have been calculated using default equations and exposure assumptions from Chapter 62-777, F.A.C. (the ASCTLs also include updated exposure assumptions from OSWER Directive 9200.1-120). Recently, the USEPA and a number of states have modified their calculation of PFOA and PFOS criteria based upon the critical effects, which are developmental in nature, and/or the availability of serum concentration data for these chemicals. For example, the USEPA Health Advisories for PFOA and PFOS in drinking water are based upon a water consumption rate for a lactating woman to protect the breast fed infant rather than a standard adult drinking water consumption rate. This higher rate of consumption leads to a lower acceptable drinking water concentration (0.07 µg/L rather than 0.1 µg/L calculated with Chapter 62-777 F.A.C. assumptions). New Jersey and Minnesota have both used serum concentration data rather than the USEPA oral reference dose to derive acceptable concentrations of PFOA and PFOS in drinking water that are lower than the USEPA Health Advisories. The Minnesota approach specifically targets serum concentrations in the breast fed infant. Other than a general protection of children when developing SCTLs, Florida has not typically tailored calculation of cleanup target levels (CTLs) to address sensitive life stages when they have been identified. With increased attention to the issue of sensitive life stages in the context of PFOA and PFOS exposure, the Florida Department of Environmental

Protection (FDEP) may want to consider as a general matter when and to what extent sensitive life stages should be addressed in CTL development.

Please let us know if you have any questions regarding the development of these ASCTLs.

Sincerely,



Leah D. Stuchal, Ph.D.



Stephen M. Roberts, Ph.D.

References:

- ATSDR (2015) *Draft Toxicological Profile for Perfluoroalkyls*. U.S. Department of Health And Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry, August 2015.
- Butenhoff JL, Kennedy GL, Frame SR, et al. (2004) The reproductive toxicology of ammonium perfluorooctanoate (APFO) in the rat. *Toxicol.* 196: 95-116.
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- Luebker DJ, Case MT, York RG, et al. (2005b) Two-generation reproduction and cross-foster studies of perfluorooctanesulfonate (PFOS) in rats. *Toxicol.* 215: 126-148.
- Perkins R, Butenhoff J, Kennedy G, Palazzolo M (2004) 13-Week dietary toxicity study of ammonium perfluorooctanoate (APFO) in male rats. *Drug Chem. Toxicol.* 27: 361-378.
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- USEPA (2014) *Human Health Evaluation Manual, Supplemental Guidance: Update of Standard Default Exposure Factors, OSWER Directive 9200.1-200*. United States Environmental Protection Agency, Office of Solid Waste and Emergency Response, Washington, D.C.
- USEPA (2016a) *Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA)*. United States Environmental Protection Agency, Office of Water, Washington, DC.
- USEPA (2016b) *Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS)*. United States Environmental Protection Agency, Office of Water, Washington, DC.
- Wambaugh, J.F., R.W. Setzer, A.M. Pitruzzello, J. Liu, D.M. Reif, N.C. Kleinstreuer, N. Ching, Y. Wang, N. Sipes, M. Martin, K. Das, J.C. DeWitt, M. Strynar, R. Judson, K.A. Houck, and C. Lau (2013) Dosimetric anchoring of in vivo and in vitro studies for perfluorooctanoate and perfluorooctanesulfonate. *Toxicological Science* 136: 308-327.
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- Wolf CJ, Fenton SE, Schmid JE, et al. (2007) Developmental toxicity of perfluorooctanoic acid in the CD-1 mouse after cross-foster and restricted gestational exposure. *Toxicol. Sci.* 95: 462-473.

Figure 1 – Equation for Developing Acceptable Soil Cleanup Target Levels for Non-Carcinogens:

$$SCTL = \frac{THI \times BW \times AT}{EF \times ED \times FC \times \left[\left(\frac{1}{RfD_o} \times IR_o \times 10^{-6} kg/mg \times RBA \right) + \left(\frac{1}{RfD_a} \times SA \times AF \times DA \times 10^{-6} kg/mg \right) \right]}$$

Figure 2 – Equation for the Determination of SCTLs Based on Leachability:

$$SCTL (mg/kg) = GCTL(\mu g/L) \times CF(mg/\mu g) \times DF \times \left[K_{oc} \times f_{oc} + \frac{\theta_w + \theta_a \times H'}{\rho_b} \right]$$

Table 1 - Default values for the direct contact and leachability equations

Symbol	Definition (units)	Receptor	Default
BW	Body weight (kg)	child	15
		worker	80
IR _o	Ingestion rate, oral (mg/day)	child	200
		worker	50
EF	Exposure frequency (days/yr)	child	350
		worker	250
ED	Exposure duration (years)	child	6
		worker	25
SA	Surface area exposed (cm ² /day)	child	2373
		worker	3527
AT	Averaging time (days) (non-carcinogens)	child	2190
		worker	9125
AF	Adherence factor (mg/cm ²)	child	0.2
		worker	0.12
IR _i	Inhalation rate (m ³ /day)	child	8.1
		worker	20
DA	Dermal absorption (unitless) (organics)		0.1
PEF	Particulate emission factor (m ³ /kg)		1.24×10 ⁹
TR	Target risk (unitless)		1×10 ⁻⁶
CF	Conversion factor (μg/mg)		1000
DAF	Dilution attenuation factor (unitless)		20
f _{oc}	Fraction organic carbon in soil (g/g)		0.002
Θ _w	Water-filled soil porosity (L _{water} /L _{soil})		0.3
Θ _a	Air-filled soil porosity (L _{air} /L _{soil})		0.13
ρ _β	Dry soil bulk density (g/cm ³)		1.5
ω	Average soil moisture content (g _{water} /g _{soil})		0.2 (20%)
η	Total soil porosity (L _{pore} /L _{soil})		0.43
ρ _σ	Soil particle density (g/cm ³)		2.65
CF	Conversion factor (μg/mg)		1000

Table 2 – Chemical-specific parameters for PFOA and PFOS

Chemical-Specific Variable	PFOA		PFOS	
	Value	Source	Value	Source
RfD _o	2E-05 mg/kg-day	USEPA	2E-05 mg/kg-day	USEPA
RfD _d	2E-05 mg/kg-day	extrapolated	2E-05 mg/kg-day	extrapolated
RfD _i	2E-05 mg/kg-day	extrapolated	2E-05 mg/kg-day	extrapolated
Diffusivity in air	2.3E-02 cm ² /s	calculated	1.7E-02 cm ² /s	calculated
Diffusivity in water	5.8E-06 cm ² /s	calculated	4.2E-06 cm ² /s	calculated
Molecular weight	414.09 g/mol	HSDB	500.13 g/mol	HSDB
Density	1.792 g/cm ³	HSDB	1.25 g/cm ³	Chemicaland21
Henry's Law Constant	Not measurable	EPIWIN	Not measurable	EPIWIN
log K _{ow}	4.81	HSDB	4.49	EPIWIN
K _{oc}	655.1 L/kg	EPIWIN	2562 L/kg	EPIWIN

USEPA – United States Environmental Protection Agency

HSDB – Hazardous Substances Data Bank

EPIWIN – Estimation Programs Interface for Windows v4.1.1

August 16, 2018

Leah J. Smith
District and Business Support Program
Division of Waste Management
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Calculation of an AGCTL for PFOA/PFOS protective of sensitive lifestages

Dear Ms. Smith:

We have developed an alternative groundwater cleanup target level (AGCTL) for perfluorooctanoic acid (PFOA; CAS# 335-67-1) and perfluorooctane sulfonate (PFOS; CAS# 1763-23-1) protective of sensitive lifestages/receptors. We previously developed AGCTLs for PFOA and PFOS in letters to the Florida Department of Environmental Protection (FDEP) dated April 12, 2017. These AGCTLs incorporated updated toxicity values based on the USEPA Drinking Water Health Advisories for PFOA and PFOS (USEPA, 2016a & 2016b) and updated exposure parameters for adults listed in the 2011 Exposure Factors Handbook (USEPA, 2011). At that time, we were requested to use a drinking water ingestion rate applicable to a generic adult receptor, which is the approach used in the development of groundwater cleanup target levels (GCTLs) in Chapter 62-777, F.A.C. The resulting GCTL for both PFOA and PFOS was 0.1 µg/L.

The critical effects for both of these chemicals are developmental effects. For PFOA, the critical effects are decreased ossification of pup (both sexes) proximal phalanges and accelerated preputial separation. For PFOS, the critical effect is decreased pup weight in the F₁ generation. The F₁ generation is the first generation of pups born after parental exposure. Exposure usually takes place while pups are in utero and may last through lactation and weaning. Because the critical effects are development endpoints, adverse effects can result from short-term exposure during critical periods of development. The 90th percentile drinking water ingestion rate for lactating women (0.054 L/kg-d; USEPA, 2011) is used by the USEPA in the development of their drinking water criterion due to the potential increased susceptibility from higher drinking water rates during pregnancy and lactation (USEPA 2016a & 2016b). From a toxicological standpoint, it is more appropriate to use a drinking water ingestion rate applicable to the most sensitive lifestage/receptor in the development of a cleanup target level, than a default drinking water rate for an adult.

At your request, we have calculated AGCTLs for PFOA and PFOS protective of sensitive lifestages based on the 90th percentile drinking water ingestion rate of 0.054 L/kg-d for lactating women. For developmental effects, AGCTLs of 0.07 µg/L were derived for both PFOA and PFOS using the formula in Figure 2 of Chapter 62-777, FAC. The AGCTLs for these two

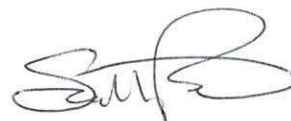
chemicals are identical because their oral reference doses are also identical (2E-05 mg/kg-d). The calculation and exposure assumptions used are shown in Figure 1 below. Because of the similarity in adverse effects and potency of these chemicals, the USEPA recommends that, where PFOA and PFOS are co-located, the sum of the concentrations of these chemicals should be compared to the drinking water criterion (USEPA, 2016a & 2016b). Therefore, **the sum of PFOA and PFOS concentrations should be compared to the AGCTL of 0.07 µg/L.**

In deriving these AGCTLs, we note that the Agency for Toxic Substances and Disease Registry (ATSDR) has recently released for public comment a draft toxicological profile for perfluoroalkyl chemicals, including PFOA and PFOS. The proposed Minimal Risk Levels for PFOA and PFOS are an order of magnitude lower than their USEPA reference doses, prompting discussion within the scientific and regulatory community whether the USEPA reference doses should be re-visited and perhaps revised downward. We recommend following this discussion closely and making further modifications to the AGCTLs if warranted. Please let us know if you have any questions regarding the development of this AGCTL.

Sincerely,



Leah D. Stuchal, Ph.D.



Stephen M. Roberts, Ph.D.

References:

USEPA (2011) *Exposure Factors Handbook: 2011 Edition*. United States Environmental Protection Agency, National Center for Environmental Assessment, Office of Research and Development, Washington, DC.

USEPA (2016a) *Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA)*. United States Environmental Protection Agency, Office of Water, Washington, DC.

USEPA (2016b) *Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS)*. United States Environmental Protection Agency, Office of Water, Washington, DC.

Figure 1 – Equation for the derivation of a GCTL for PFOA and PFOS

$$GCTL (\mu g/L) = \frac{RfD_o \times RSC \times CF}{WC}$$

where:

Parameter	Definition	Value
GCTL	Groundwater cleanup target level (μg/L)	--
RfDo	Reference dose (mg/kg-d)	2E-05
RSC	Relative source contribution	0.2
CF	Conversion factor (μg/mg)	1000
WC	Water consumption (L/kg-d)	0.054



Center for Environment & Human Toxicology

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January 3, 2019

Leah J. Smith
District and Business Support Program
Division of Waste Management
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Leachability SCTLs for PFOA and PFOS based on the alternative GCTL of 0.07 $\mu\text{g/L}$

Dear Ms. Smith:

At your request, we have calculated leachability soil cleanup target levels (SCTLs) for perfluorooctanoic acid (PFOA; CAS# 335-67-1) and perfluorooctane sulfonate (PFOS; CAS# 1763-23-1) based on the alternative groundwater cleanup target level (AGCTL) of 0.07 $\mu\text{g/L}$ for the protection of sensitive lifestages. The leachability SCTLs were calculated using the equation in Figure 5 of Chapter 62-777, F.A.C. Chemical-specific properties used in the calculation were taken from our letter regarding the calculation of SCTLs for PFOA and PFOS (dated April 16, 2018). Based on these parameters, **the leachability SCTL for PFOA is 0.002 mg/kg and the leachability SCTL for PFOS is 0.007 mg/kg**. Please let us know if you have any questions regarding these calculations.

Sincerely,

A handwritten signature in blue ink, appearing to read "Leah Stuchal".

Leah D. Stuchal, Ph.D.

A handwritten signature in blue ink, appearing to read "Stephen M. Roberts".

Stephen M. Roberts, Ph.D.

White Paper

Development of Surface Water Screening Levels for PFOA and PFOS Based on the Protection of Human Health Using Probabilistic Risk Assessment

Prepared for the District and Business Support Program
Florida Department of Environmental Protection

Leah Stuchal, Ph.D. and Stephen M. Roberts, Ph.D.

Center for Environmental & Human Toxicology
University of Florida

April 2020

This white paper develops surface water screening levels for perfluorooctanoic acid (PFOA; CAS# 335-67-1) and perfluorooctane sulfonate (PFOS; CAS# 1763-23-1) protective of human health using probabilistic risk assessment (PRA). These screening levels are based on fish and shellfish ingestion pathways. PFOA and PFOS are manmade chemicals that belong to a group of thousands of chemicals known as perfluoroalkyl substances (PFAS). PFASs are water- and lipid-resistant. They are used as waterproofing and stain-resistant coatings for carpets, leather, textiles, furniture, and packaging materials. They are also used in fire-fighting foam and are added to aviation fluids to decrease flammability. PFOA and PFOS degrade slowly and are very persistent in the environment and the human body (USEPA, 2016a; USEPA, 2016b). The PFOA and PFOS present in surface water bioconcentrates and bioaccumulates into fish and shellfish that are consumed by local populations.

The following sections describe the technical basis for the proposed surface water screening levels.

Equation and assumptions

We calculated surface water screening levels protective of fish and shellfish consumption using a modified equation from the U.S. Environmental Protection Agency (USEPA) for the calculation of fish consumption limits based on concentrations of contaminants in fish tissue (USEPA, 2000a). The equation for non-carcinogens was used, modified by removing the drinking water intake component.

$$SWSL (\mu g/L) = \frac{RfD \times RSC \times BW \times CF}{\sum_{i=2}^4 (FI_i \times BAF_i)}$$

Where:

SWSL = surface water screening level ($\mu g/L$)

RfD = oral reference dose (mg/kg-d)

RSC = relative source contribution

BW = body weight (kg)

CF = correction factor, 1000 $\mu g/mg$

FI_i = freshwater and estuarine finfish and shellfish consumption rate for aquatic trophic levels 2, 3, and 4 (kg/d)

BAF_i = bioaccumulation factor for aquatic trophic levels (TLs) 2, 3, and 4 (L/kg)

$\sum_{i=2}^4$ = summation of values for aquatic TLs, where the letter i stands for the TLs, starting with TL2 and continuing to TL4

For the PRA, body weight and freshwater and estuarine finfish and shellfish consumption rate (fish consumption rate) were chosen as distributions. Point values were selected for the other exposure parameters. This is identical to the PRA method proposed for the surface water standards in Chapter 62-302, F.A.C. (FDEP, 2016). The point value parameters are listed in Table 1 and the distributions for fish ingestion are provided in Table 2. Body weight was defined as a lognormal distribution with a mean of 79.96 kg and a standard deviation of 20.73 kg (USEPA, 2011). Figures showing the distributions for body weight and fish ingestion are included in Appendix A.

Table 1 – Point value parameters used in the derivation of surface water screening levels for PFOA and PFOS

Parameter	PFOA	PFOS	Source
Reference dose (mg/kg-d)	2E-05	2E-05	USEPA, 2016a USEPA, 2016b
Relative source contribution	0.6	0.6	CEHT, 2020
Bioaccumulation factor TL2 (L/kg)	35	937	See section on bioaccumulation factor
Bioaccumulation factor TL3 (L/kg)	71	2959	See section on bioaccumulation factor
Bioaccumulation factor TL4 (L/kg)	161	6304	See section on bioaccumulation factor

Table 2 – Fish ingestion lognormal distributions used in the PRA for the derivation of surface water screening levels for PFOA and PFOS

Trophic Level	Statistic	Atlantic (g/d)	Gulf (g/d)	Inland South (g/d)
2	Mean	4.9	4.2	3.1
	95 th Percentile	16.4	14.6	11.3
3	Mean	5.4	5.1	3.7
	95 th Percentile	16.6	16.4	11.9
4	Mean	2.6	2.5	2.8
	50 th Percentile	0.8	0.7	NA
	97 th Percentile	NA	NA	15.8

The fish ingestion distributions were derived from USEPA, 2014, Appendix E, Tables E-13, E-14, and E-15; NA – not applicable. This statistic was not used to define the distribution.

Reference Dose

The USEPA has developed reference doses for PFOA and PFOS in order to create drinking water Health Advisory Levels for these compounds. FDEP has used these reference doses for the calculation of alternative groundwater cleanup target levels (GCTLs) and soil cleanup target levels (SCTLs) for PFOA and PFOS (See letters to the FDEP dated April 16, 2018 and August 16, 2018 for details regarding the derivation of those screening levels). For consistency, the same RfD values are used in the surface water calculation, i.e., an oral reference dose (RfD) of 2E-05 mg/kg-d for both PFOA and PFOS.

We are aware that there is a lack of consistency among federal and state agencies in the derivation of safe limits for oral exposure to these substances. The Agency for Toxic Substances and Disease Registry (ATSDR) released a draft toxicity profile for PFAS, including PFOA and PFOS. The proposed Minimal Risk Levels (MRLs; analogous to RfDs) are an order of magnitude lower than the USEPA RfDs. This draft document received extensive public comment and has not yet been finalized. Additionally, North Carolina, Texas, Maine, Minnesota, and New Jersey have developed toxicity values for PFOA and PFOS based on

differing endpoints and/or uncertainty factors. This results in different toxicity values than were proposed by the USEPA and ATSDR. California has also derived slope factors for PFOA and PFOS based on the development of pancreatic and liver tumors in male rats (CalEPA, 2019). The potential toxicity of PFOA and PFOS is a subject of active research, and the data available are rapidly evolving. Thus, while the USEPA RfD values are used for the surface water screening levels proposed here, we recommend re-visiting these screening levels as new information develops. Use of toxicity values developed based upon other endpoints, including cancer, instead of the USEPA RfDs will result in different screening level estimates that may be lower than those calculated here.

Body Weight

The Exposure Factors Handbook recommends using the body weight distributions calculated by Portier et al., (2007) for probabilistic risk assessment. For this analysis, body weight was defined as a lognormal distribution with a mean of 79.96 kg and a standard deviation of 20.73 kg (USEPA, 2011). This distribution represents the National Health and Nutrition Examination Survey (NHANES) IV estimated body weights for 18 to 65-year-old males and females. It was not truncated for the risk assessment. This body weight distribution was also used in the FDEP (2016) technical support document for the derivation of surface water standards.

Relative Source Contribution

This assessment uses the USEPA relative source contribution (RSC) values of 0.6 (60%) for both PFOA and PFOS. These chemical-specific RSCs for PFOA and PFOS were derived using the USEPA Exposure Decision Tree methodology (USEPA, 2000b), as explained in the companion white paper, *"Determination of Relative Source Contribution Values for Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) in Support of Development of Florida Surface Water Screening Levels"* (CEHT, April 2020). As described in this document, there are several potential sources for PFOA and PFOS identified in the literature, of which drinking water, diet, consumer products, and indoor air and dust may be important. RSC values were derived using the percentage method, taking into account exposure from drinking water consistent with current FDEP screening levels, dietary exposure, and potential exposure to other sources combined. From this analysis, 60% of the intake corresponding to the RfDs for PFOA and PFOS were allocated to surface water exposure in the form of consumption of fish and shellfish.

Finfish and Shellfish Consumption Rate

No current Florida-specific fish consumption studies are available. The Degner et al. (1994) fish consumption study in Florida was used previously to develop fish consumption rates for Chapter 62-302, F.A.C. It also includes Florida-specific data on shellfish consumption for the general population. However, it is dated and may not represent current fish consumption rates. Therefore, we used NHANES 2003-2010 fish consumption data. The NHANES data are presented based on age, gender, and geographic region. The USEPA document summarizing the NHANES fish and shellfish consumption data presents several consumer categories that may be relevant to fish consumption in Florida (USEPA, 2014). However, none are specific to Florida. Based on the differences in fish and shellfish consumption rates for each geographic region in the U.S., these national data may not be appropriate for Florida. Regional data applicable to Florida include the South, Gulf of Mexico coastal counties, and Atlantic coastal counties. The FDEP determined that the combination of these regions provide the best

estimate for a fish consumption rate for Floridians. They calculated that 44.8% of the Florida population resides within the Atlantic coastal counties, 31.6% reside in the Gulf of Mexico coastal counties, and 23.6% reside in the South geographic region (FDEP, 2016).

The USEPA document summarizing the NHANES fish consumption data also includes estimates of fish consumption by trophic level for each region. We used fit statistics to describe lognormal distributions for the consumption rates in Tables E-13, E-14, and E-15 of that document (Table 2). These statistics represent the total freshwater and estuarine finfish and shellfish consumption rates for adults.

Bioaccumulation Factor

Bioaccumulation factors (BAFs) for PFOA and PFOS from the literature are listed in Appendix Tables B1 and B2. Studies that included data on bioaccumulation in the muscle tissue (e.g., fillet) were utilized to calculate the freshwater BAFs. These studies include fish not present in Florida (e.g., rainbow trout) and fish not usually consumed (e.g., minnows, whitebait). The BAFs for these fish were used to calculate a freshwater BAF for PFOA and PFOS because bioaccumulation data in fish and shellfish are limited. By including all of the data available, it provides a better estimate of the BAF.

Bioaccumulation factors for the derivation of human health surface water criteria were calculated based on a modified version of the USEPA framework for deriving BAFs (USEPA, 2016c). Based on the USEPA proposed framework, we utilized field BAFs to calculate baseline BAFs for PFOA and PFOS. Field BAFs are the preferred source for calculating BAFs for nonionic organic chemicals. Typically, in this methodology, a baseline BAF is calculated based on the field BAF, the concentration of particulate organic carbon (POC) in the water, the concentration of dissolved organic carbon (DOC) in the water, the chemical-specific n-octanol-water partition coefficient (K_{ow}), and the fraction of finfish and shellfish tissue that is lipid. However, for the purposes of this assessment, the field BAFs were used as the baseline BAFs. The reasoning for this includes:

1. The POC and DOC were not known for the majority of the BAF studies. Calculation of the fraction of chemical in water that is freely dissolved would require assumptions regarding the amount of dissolved and particulate carbon. Although national averages may be used as defaults, the majority of studies took place outside the United States and default POC and DOC values for these countries are unknown.
2. The K_{ow} has not been measured for PFOA and PFOS. Calculation of a baseline BAF would require a K_{ow} based on physical/chemical property estimation software (e.g., EPI Suite).
3. Unlike most non-ionic organics, PFAS are not distributed to the lipid. Therefore, use of a lipid adjustment to derive a baseline BAF is inappropriate for PFAS chemicals.

Bioaccumulation factors were derived for each trophic level (TL). To calculate a BAF, the fish and shellfish from the bioaccumulation studies were assigned to trophic levels (Table B3). A bioaccumulation factor was calculated for each trophic level for both PFOA and PFOS. Individual field BAFs were combined as the geometric mean for each species. The baseline TL-specific BAF was calculated as the geometric mean of all species geometric means (Table 3). These calculations are presented in Tables B4 through B9. The Minnesota study (MPCA,

2007b) combined bluegill and white bass in their river bioaccumulation study. Because the BAFs were listed as geometric means (MPCA, 2007b), they were retained in the assessment.

Table 3 – Trophic level 2, 3, and 4 geometric mean bioaccumulation factors for PFOA and PFOS

Chemical	Trophic Level	BAF
PFOA	2	35
	3	71
	4	161
PFOS	2	937
	3	2959
	4	6304

Method for the probabilistic risk assessment

PFOA and PFOS surface water screening levels were calculated using PRA. In this analysis, body weight and fish consumption were defined as distributions and the other parameters were entered as point values. The surface water screening levels were derived in using 100,000 iterations of a Monte Carlo analysis in Crystal Ball software (Version 11.1) with a seed of 123457. Each iteration represents a hypothetical person in the population. For each iteration, the software chose a body weight from the distribution. Then, a region was chosen based on the percentage of Floridians who live in each area. Once the region was identified, the software chose a region-specific fish consumption rate for trophic levels 2, 3, and 4 (Table 2). The fish consumption rates for each trophic level were multiplied by their respective BAFs (Table 3) before being summed. There was no correlation between the fish consumption rates for the three TLs. We could not locate any data suggesting that a high-end consumer of fish and shellfish in TL2 would also be a high-end consumer of fish and shellfish in the other TLs. Using the equation provided in this document, the software generated a distribution of surface water concentrations equivalent to a hazard index of 1 for each iteration. The PFOA and PFOS screening levels were set at the 10th percentile of this distribution. To check these values, the equation was rearranged and solved to ensure that the hazard index of 1 was not exceeded at the 90th percentile (Chapter 62-780, F.A.C.).

Screening levels

Surface water screening levels for PFOA and PFOS were calculated using the equations and assumptions described in this document. The surface water screening level for PFOA is 0.5 µg/L and for PFOS is 0.01 µg/L (Table 4). The distributions are presented in Figures 1 and 2. We also calculated the hazard index for the screening levels to insure it was below 1 at the 90th percentile. The hazard index for PFOA at a surface water screening level of 0.5 µg/L is 1 and the hazard index for PFOS at a screening level of 0.01 µg/L is 0.8 at the 90th percentile. The screening level for PFOS at a hazard index of 1 is 0.012 µg/L. This was rounded to 1 significant figure, which decreased the hazard index at the 90th percentile. The Crystal Ball output for the surface water screening level distributions and the distributions for the hazard index are presented in Appendix C.

Table 4 – Surface water screening levels for freshwater and estuarine finfish and shellfish for PFOA and PFOS

Surface Water Screening Levels ($\mu\text{g/L}$)	PFOA	PFOS
Freshwater and estuarine finfish and shellfish	0.5	0.01

Screening levels were rounded to one significant figure

Figure 1 – Surface water screening level distribution for PFOA

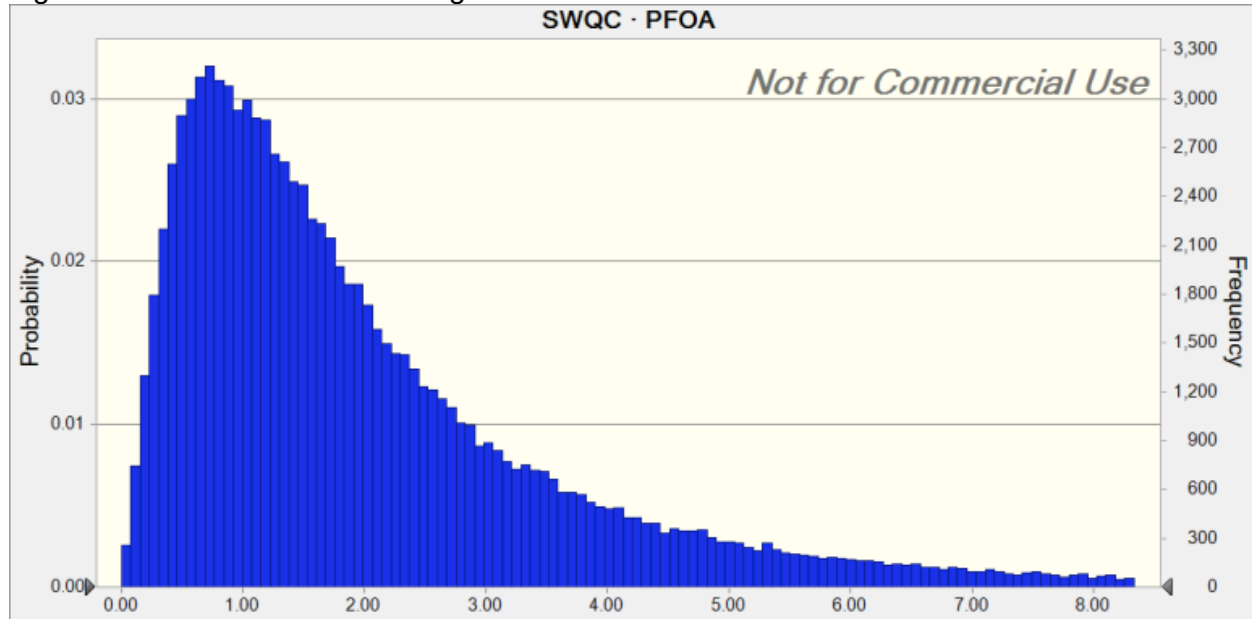
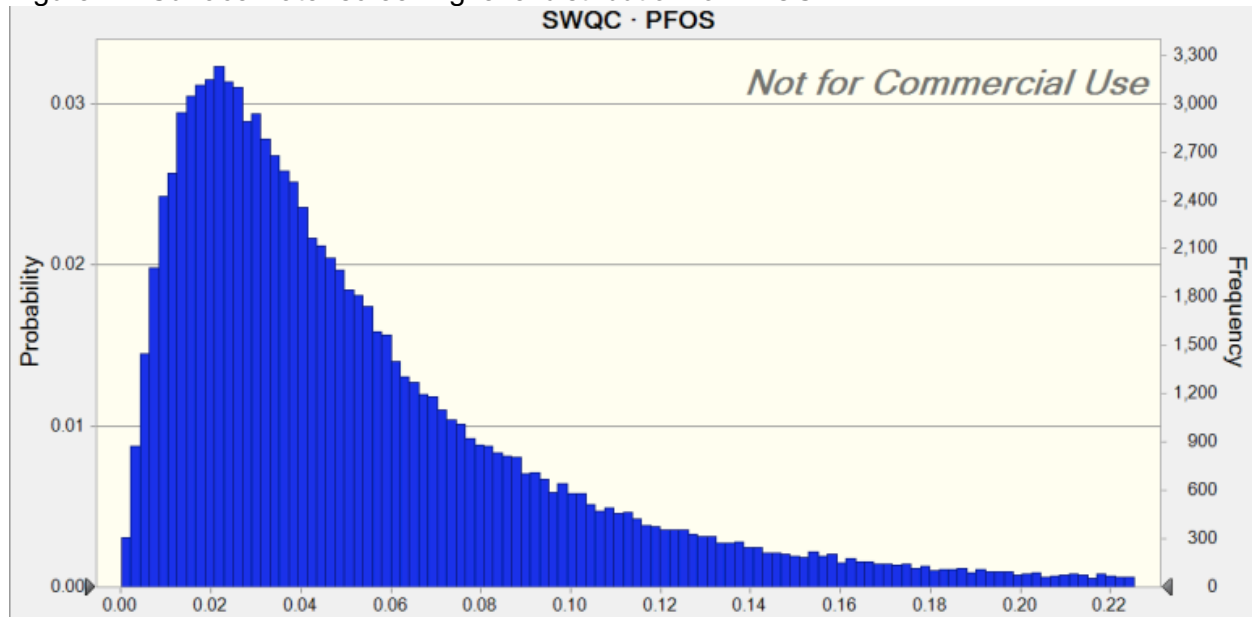


Figure 2 – Surface water screening level distribution for PFOS



The USEPA drinking water Health Advisory Levels (HALs) for PFOA and PFOS are each 0.07 µg/L. The USEPA recommends that the combined concentrations of PFOA and PFOS in drinking water be compared with this limit, based upon an assumption that their effects are additive. The rationale for this assumption is that their RfDs are derived for the same toxic endpoint (developmental effects) and that, although the mode of action for these effects has not been established, it is likely to be the same for these closely related chemicals. The fact that their individual Health Advisory Levels are identical makes it relatively straightforward to implement this recommendation. While the same argument could be made that the surface water screening levels for PFOA and PFOS should also address combined effects, this is more difficult because of the large difference in their values, approximately an order of magnitude. Picking the lower, higher, or average of these values for comparison with combined PFOA and PFOS concentrations could result in gross over- or underestimation of risk, depending on the individual PFOA and PFOS concentrations. As a practical matter, comparison of PFOA and PFOS concentrations in surface water with the screening levels should be made individually.

Surface water screening levels in Florida and other states

Table 5 – State surface water screening levels

State	PFOA (µg/L)	PFOS (µg/L)
Florida	0.5	0.01
Minnesota (lakes)	1.6	0.006
Minnesota (rivers)	2.7	0.007
Michigan	12	0.012
Alaska	0.07*	0.07*

* - Concentrations of PFOA and PFOS are summed before being compared to the criterion.

Minnesota has also developed freshwater surface water criteria based on fish consumption for the protection of human health. These criteria are based on site-specific bioaccumulation factors. For PFOA, the Minnesota surface water criteria include 1.6 µg/L for lakes and 2.7 µg/L for rivers (MPCA, 2017; Table 5). These criteria are higher than our proposed screening level of 0.5 µg/L. The difference in values is due to the use of a higher oral reference dose (1.4E-04 mg/kg-d) and slightly lower bioaccumulation factor (40 L/kg for lakes and 24 L/kg for rivers). Recently, the Minnesota Department of Health (MDOH) updated their reference doses for PFOA and PFOS (MDOH, 2019a; MDOH, 2019b). The updated reference dose for PFOA is 1.8E-05 mg/kg-d (MDOH, 2019a). Using this reference dose in their surface water equation would decrease the Minnesota criterion by approximately one order of magnitude. These updated values would be slightly lower than our proposed screening level of 0.5 µg/L.

The screening level for PFOS is lower than PFOA due to the large bioaccumulation factor for PFOS. For PFOS, the Minnesota surface water criteria include 0.006 µg/L for lakes 0.007 µg/L for rivers (MPCA, 2017). Our proposed PFOS screening level of 0.01 µg/L is similar to these two criteria. This is due to the use of a similar reference dose (8E-05 mg/kg-d) and bioaccumulation factors (6,087 L/kg for lakes and 3,877 for rivers) (MPCA, 2010a; MPCA, 2010b). The MDOH updated reference dose for PFOS is 3.1E-06 mg/kg-d (MDOH, 2019b). Use of this reference dose would lower the PFOS criteria to less than 0.001 µg/L, which is an order of magnitude below our proposed screening level.

The Michigan Department of Environmental Quality (MDEQ) criteria for PFOA and PFOS are human health-based non-cancer values for non-drinking surface water sources.

They were derived based on Michigan Rule 57 for toxic substances (MDEQ, 2020; Table 5). Their surface water screening level for PFOA is an order of magnitude greater than the screening level of 0.5 µg/L proposed in this document. The Michigan surface water screening level for PFOS is equivalent to our proposed PFOS surface water value of 0.01 µg/L. The Alaska Department of Environmental Conservation uses a criterion of 0.07 µg/L for PFAS in surface water used as drinking water (ADEC, 2019; Table 5). The criterion includes the sum of PFOA and PFOS concentrations. It is based on the USEPA drinking water HAL.

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Appendix A

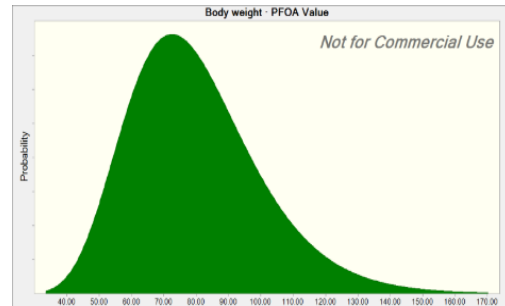
Crystal Ball Report - Assumptions

Assumptions

Assumption: Body weight · PFOA Value

Lognormal distribution with parameters:

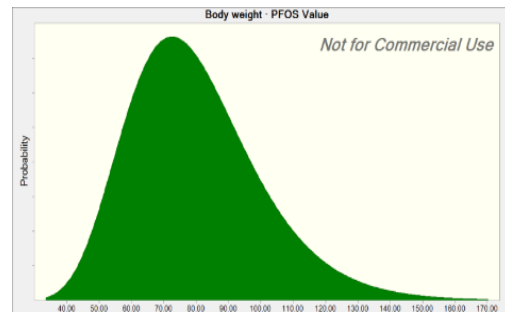
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Mean	79.96
Std. Dev.	20.73



Assumption: Body weight · PFOS Value

Lognormal distribution with parameters:

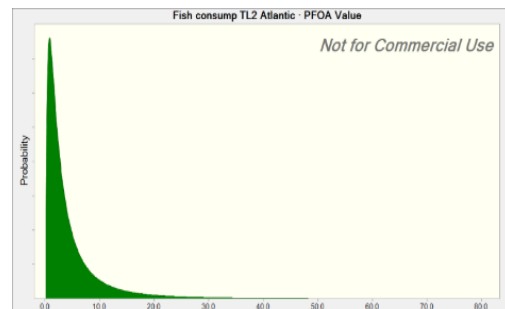
Location	0.00
Mean	79.96
Std. Dev.	20.73



Assumption: Fish consump TL2 Atlantic · PFOA Value

Lognormal distribution with parameters:

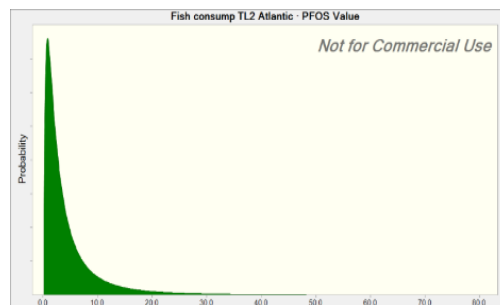
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Mean	4.9
95%	16.4



Assumption: Fish consump TL2 Atlantic · PFOS Value

Lognormal distribution with parameters:

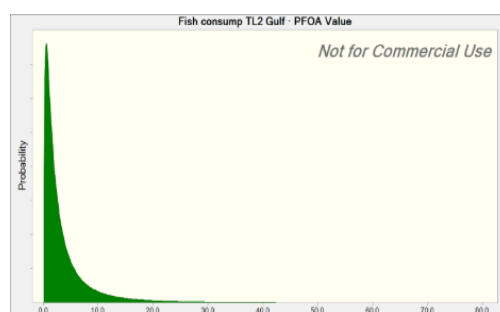
Location	0.0
Mean	4.9
95%	16.4



Assumption: Fish consump TL2 Gulf · PFOA Value

Lognormal distribution with parameters:

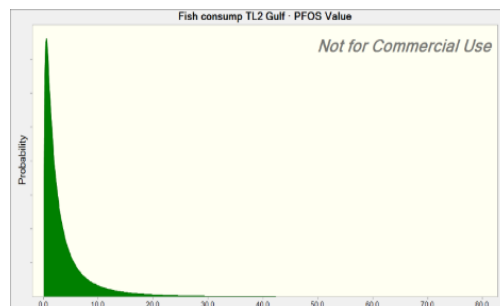
Location	0.0
Mean	4.2
95%	14.6



Assumption: Fish consump TL2 Gulf · PFOS Value

Lognormal distribution with parameters:

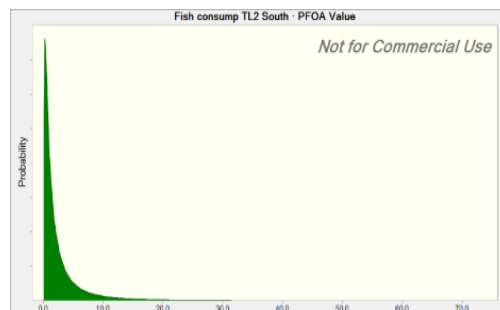
Location	0.0
Mean	4.2
95%	14.6



Assumption: Fish consump TL2 South · PFOA Value

Lognormal distribution with parameters:

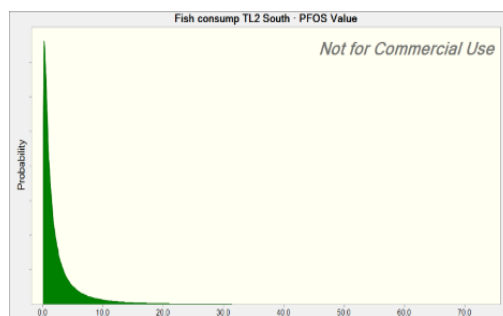
Location	0.0
Mean	3.1
95%	11.3



Assumption: Fish consump TL2 South · PFOS Value

Lognormal distribution with parameters:

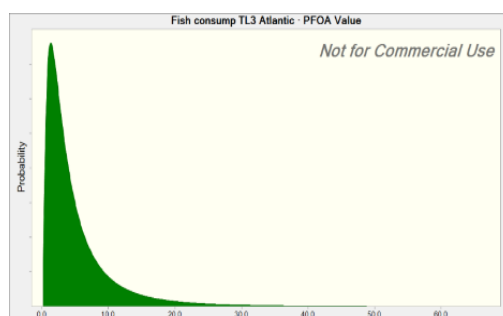
Location	0.0
Mean	3.1
95%	11.3



Assumption: Fish consump TL3 Atlantic · PFOA Value

Lognormal distribution with parameters:

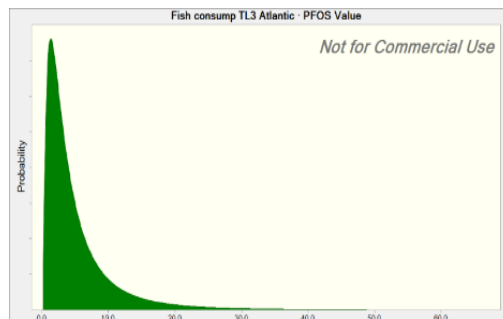
Location	0.0
Mean	5.4
95%	16.6



Assumption: Fish consump TL3 Atlantic · PFOS Value

Lognormal distribution with parameters:

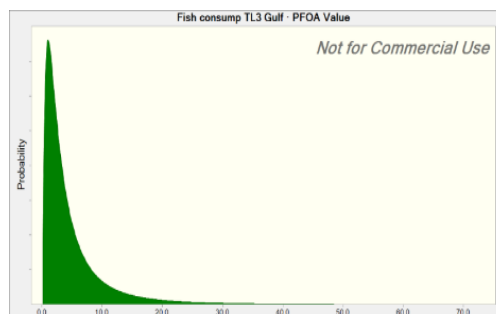
Location	0.0
Mean	5.4
95%	16.6



Assumption: Fish consump TL3 Gulf · PFOA Value

Lognormal distribution with parameters:

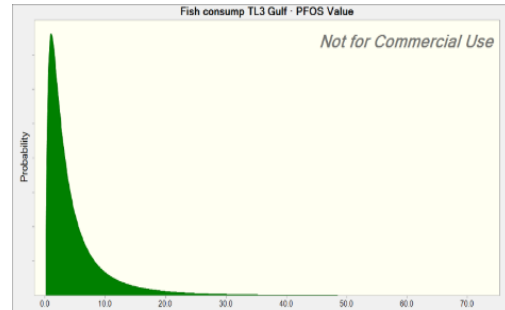
Location	0.0
Mean	5.1
95%	16.4



Assumption: Fish consump TL3 Gulf · PFOS Value

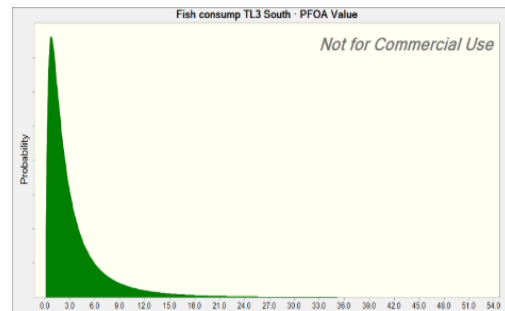
Lognormal distribution with parameters:

Location	0.0
Mean	5.1
95%	16.4

**Assumption: Fish consump TL3 South · PFOA Value**

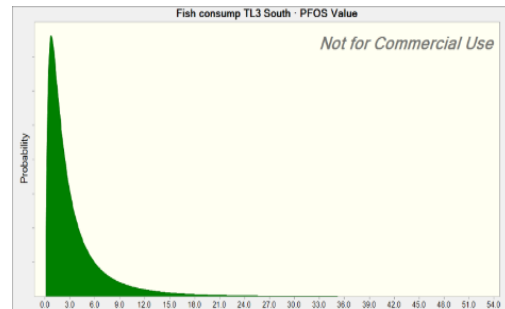
Lognormal distribution with parameters:

Location	0.0
Mean	3.7
95%	11.9

**Assumption: Fish consump TL3 South · PFOS Value**

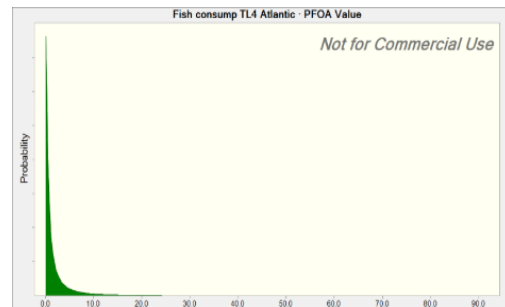
Lognormal distribution with parameters:

Location	0.0
Mean	3.7
95%	11.9

**Assumption: Fish consump TL4 Atlantic · PFOA Value**

Lognormal distribution with parameters:

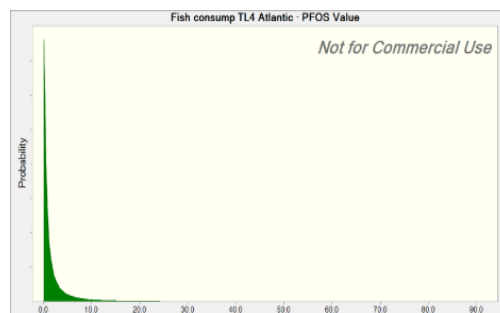
Location	0.0
Mean	2.6
50%	0.8



Assumption: Fish consump TL4 Atlantic · PFOS Value

Lognormal distribution with parameters:

Location	0.0
Mean	2.6
50%	0.8



Assumption: Fish consump TL4 Gulf · PFOA Value

Lognormal distribution with parameters:

Location	0.0
Mean	2.5
50%	0.7



Assumption: Fish consump TL4 Gulf · PFOS Value

Lognormal distribution with parameters:

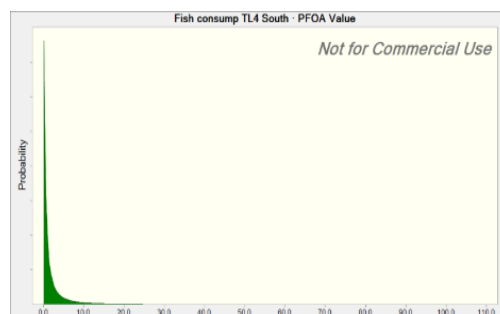
Location	0.0
Mean	2.5
50%	0.7



Assumption: Fish consump TL4 South · PFOA Value

Lognormal distribution with parameters:

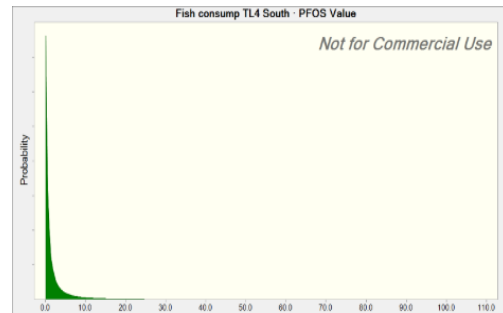
Location	0.0
Mean	2.8
97%	15.8



Assumption: Fish consump TL4 South · PFOS Value

Lognormal distribution with
parameters:

Location	0.0
Mean	2.8
97%	15.8



Appendix B

Table B1 – Bioaccumulation factors for PFOA in fish fillets and shellfish tissue

Species	Place	Fresh or Marine	Exposure	Tissue	BAF	Study
Common carp	laboratory	Fresh	static 28d, 28d flow through depuration	muscle	3.85	Fang et al, 2016
Minnow	Taihu Lake, China	Fresh	wild caught	muscle	112.5	Fang et al., 2014
Silver carp	Taihu Lake, China	Fresh	wild caught	muscle	11.8	Fang et al., 2014
Whitebait	Taihu Lake, China	Fresh	wild caught	muscle	147	Fang et al., 2014
Crucian carp	Taihu Lake, China	Fresh	wild caught	muscle	81	Fang et al., 2014
Lake saury	Taihu Lake, China	Fresh	wild caught	muscle	284	Fang et al., 2014
Common carp	Taihu Lake, China	Fresh	wild caught	muscle	177	Fang et al., 2014
Mongolian culter	Taihu Lake, China	Fresh	wild caught	muscle	161	Fang et al., 2014
Mud fish	Taihu Lake, China	Fresh	wild caught	muscle	163	Fang et al., 2014
Chinese bitterling	Taihu Lake, China	Fresh	wild caught	muscle	87.9	Fang et al., 2014
Goby	Taihu Lake, China	Fresh	wild caught	muscle	37.7	Fang et al., 2014
Common carp	China	Fresh	wild caught	muscle	182	Zhou et al., 2012
White shrimp	Taihu Lake, China	Fresh	wild caught	soft part	12.5	Fang et al., 2014
Pearl mussel	Taihu Lake, China	Fresh	wild caught	soft part	39.7	Fang et al., 2014

BAF – bioaccumulation factor

Table B2 – Bioaccumulation factors for PFOS in fish filets and shellfish tissue

Species	Place	Fresh or Marine	Exposure	Tissue	BAF (L/kg)	Study
Bluegill	Lake Calhoun, MN	Fresh	wild caught	fillet	2802	MPCA, 2007b
Bluegill and white bass	Mississippi River, MN	Fresh	wild caught	fillet	5737	MPCA, 2007b
Common carp	laboratory	Fresh	static 28d, 28d flow through depuration	muscle	9500	Fang et al, 2016
Minnow	Taihu Lake, China	Fresh	wild caught	muscle	3212	Fang et al., 2014
Silver carp	Taihu Lake, China	Fresh	wild caught	muscle	832	Fang et al., 2014
Whitebait	Taihu Lake, China	Fresh	wild caught	muscle	1350	Fang et al., 2014
Crucian carp	Taihu Lake, China	Fresh	wild caught	muscle	6898	Fang et al., 2014
Lake saury	Taihu Lake, China	Fresh	wild caught	muscle	4401	Fang et al., 2014
Common carp	Taihu Lake, China	Fresh	wild caught	muscle	3679	Fang et al., 2014
Mongolian culter	Taihu Lake, China	Fresh	wild caught	muscle	6927	Fang et al., 2014
Mud fish	Taihu Lake, China	Fresh	wild caught	muscle	4854	Fang et al., 2014
Chinese bitterling	Taihu Lake, China	Fresh	wild caught	muscle	2861	Fang et al., 2014
Goby	Taihu Lake, China	Fresh	wild caught	muscle	2876	Fang et al., 2014
Common carp	China	Fresh	wild caught	muscle	11749	Zhou et al., 2012
Taihu Lake shrimp	Taihu Lake, China	Fresh	wild caught	soft part	2161	Fang et al., 2014
White shrimp	Taihu Lake, China	Fresh	wild caught	soft part	978	Fang et al., 2014
Freshwater mussel	Taihu Lake, China	Fresh	wild caught	soft part	256	Fang et al., 2014
Pearl mussel	Taihu Lake, China	Fresh	wild caught	soft part	466	Fang et al., 2014

BAF – bioaccumulation factor

Table B3 – Trophic level weighting for fish and shellfish in the PFOA and PFOS bioaccumulation studies

Fish and shellfish	Scientific Name	Trophic Level 2 Weighting	Trophic Level 3 Weighting	Trophic Level 4 Weighting	Reference
Minnow	<i>Hemiculter leucisculus</i>	0	1	0	FishBase.org
Silver carp	<i>Hypophthalmichthys molitrix</i>	0	1	0	USEPA 2014
Whitebait	<i>Reganiasalanx brachyrostralis</i>	0	1	0	FishBase.org
Crucian carp	<i>Carassius cuvieri</i>	0	1	0	USEPA 2014
Lake saury	<i>Coilia mystus</i>	0	1	0	FishBase.org
Common carp	<i>Cyprinus carpio</i>	0	1	0	USEPA 2014
Mongolian culter	<i>Culter mongolicus</i>	0	0.5	0.5	FishBase.org
Mud fish	<i>Misgurnus anguillicaudatus</i>	0	1	0	FishBase.org
Chinese bitterling	<i>Rhodeus sinensis</i>	0.5	0.5	0	FishBase.org
Goby	<i>Ctenogobius giurinus</i>	0	1	0	FishBase.org
White shrimp	<i>Exopalaemon sp.</i>	0.5	0.5	0	USEPA 2014
Pearl mussel	<i>Lamellibranchia sp.</i>	1	0	0	USEPA 2014
Bluegill	<i>Lepomis macrochirus</i>	0	1	0	FishBase.org
White bass ^a	<i>Morone chrysops</i>	0	0	1	USEPA 2014
Taihu Lake shrimp	<i>Macrobrachium nipponense</i>	0.5	0.5	0	USEPA 2014
Freshwater mussel	<i>Lamellibranchia sp.</i>	1	0	0	USEPA 2014

^a – The white bass value is the geometric mean concentration of *Lepomis macrochirus* and *Morone chrysops*

Table B4 – Species-specific TL2 BAFs and geometric mean TL2 BAF for PFOA

Species	Scientific name	TL2 BAF
Chinese bitterling	<i>Rhodeus sinensis</i>	87.9
White shrimp	<i>Exopalaemon sp.</i>	12.5
Pearl mussel	<i>Lamellibranchia sp.</i>	39.7
Geometric mean TL2 BAF		35

TL – trophic level

BAF – bioaccumulation factor

Table B5 – Species-specific TL3 BAFs and geometric mean TL3 BAF for PFOA

Species	Scientific name	TL3 BAF
Minnow	<i>Hemiculter leucisculus</i>	112.5
Silver carp	<i>Hypophthalmichthys molitrix</i>	11.8
Whitebait	<i>Reganiasalanx brachyrostralis</i>	147
Crucian carp	<i>Carassius cuvieri</i>	81
Lake saury	<i>Coilia mystus</i>	284
Common carp	<i>Cyprinus carpio</i>	50
Mongolian culter	<i>Culter mongolicus</i>	161
Mud fish	<i>Misgurnus anguillicaudatus</i>	163
Chinese bitterling	<i>Rhodeus sinensis</i>	87.9
Goby	<i>Ctenogobius giurinus</i>	37.7
White shrimp	<i>Exopalaemon sp.</i>	12.5
Geometric mean TL3 BAF		71

TL – trophic level

BAF – bioaccumulation factor

Table B6 – Species-specific TL4 BAFs and geometric mean TL4 BAF for PFOA

Species	Scientific name	TL4 BAF
Mongolian culter	<i>Culter mongolicus</i>	161
Geometric mean TL4 BAF		161

TL – trophic level

BAF – bioaccumulation factor

Table B7 – Species-specific TL2 BAFs and geometric mean TL2 BAF for PFOS

Species	Scientific name	TL2 BAF
Chinese bitterling	<i>Rhodeus sinensis</i>	2861
White shrimp	<i>Exopalaemon sp.</i>	978
Pearl mussel	<i>Lamellibranchia sp.</i>	466
Taihu Lake shrimp	<i>Macrobrachium nipponense</i>	2161
Freshwater mussel	<i>Lamellibranchia sp.</i>	256
Geometric mean TL2 BAF		937

TL – trophic level

BAF – bioaccumulation factor

Table B8 – Species-specific TL3 BAFs and geometric mean TL3 BAF for PFOS

Species	Scientific name	TL3 BAF
Minnow	<i>Hemiculter leucisculus</i>	3212
Silver carp	<i>Hypophthalmichthys molitrix</i>	832
Whitebait	<i>Reganiasalanx brachyrostralis</i>	1350
Crucian carp	<i>Carassius cuvieri</i>	6898
Lake saury	<i>Coilia mystus</i>	4401
Common carp	<i>Cyprinus carpio</i>	7433
Mongolian culter	<i>Culter mongolicus</i>	6927
Mud fish	<i>Misgurnus anguillicaudatus</i>	4854
Chinese bitterling	<i>Rhodeus sinensis</i>	2861
Goby	<i>Ctenogobius giurinus</i>	2876
White shrimp	<i>Exopalaemon sp.</i>	978
Bluegill	<i>Lepomis macrochirus</i>	2802
Taihu Lake shrimp	<i>Macrobrachium nipponense</i>	2161
Geometric mean TL3 BAF		2959

TL – trophic level

BAF – bioaccumulation factor

Table B9 – Species-specific TL4 BAFs and geometric mean TL4 BAF for PFOS

Species	Scientific name	TL4 BAF
Mongolian culter	<i>Culter mongolicus</i>	6927
White bass	<i>Morone chrysops</i>	5737
Geometric mean TL4 BAF		6304

TL – trophic level

BAF – bioaccumulation factor

Appendix C

Crystal Ball Report - Forecasts

Run preferences:

Number of trials run	100,000
Monte Carlo	
Seed	123457
Precision control on	
Confidence level	95.00%

Run statistics:

Total running time (sec)	57.11
Trials/second (average)	1,751
Random numbers per sec	38,525

Crystal Ball

data:

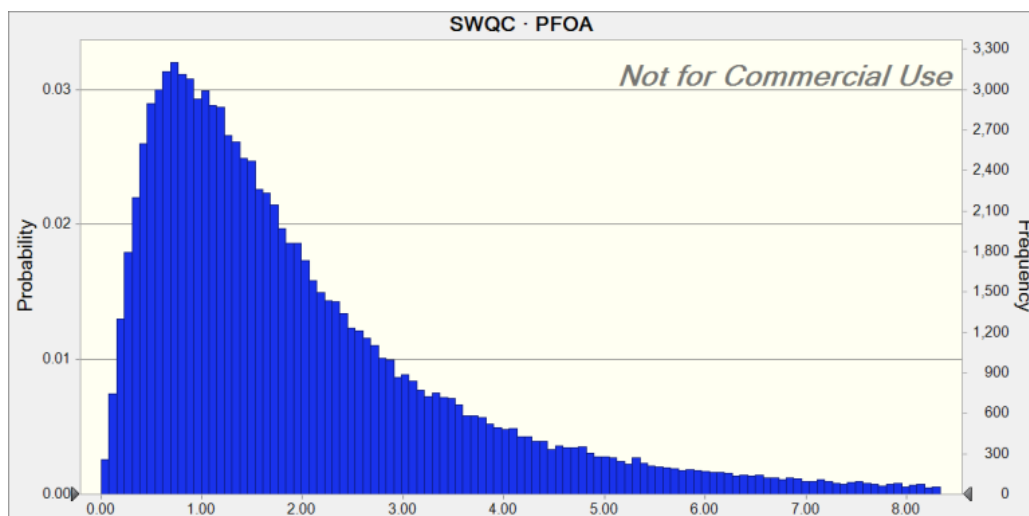
Assumptions	22
Correlations	0
Correlation matrices	0
Decision variables	0
Forecasts	12

Forecasts

Forecast: SWQC · PFOA

Summary:

Entire range is from 0.00 to 55.36
Base case is 1.16
After 100,000 trials, the std. error of the mean is 0.01



Statistics:	Forecast values
Trials	100,000
Base Case	1.16
Mean	2.19
Median	1.56
Mode	---
Standard Deviation	2.20
Variance	4.82
Skewness	3.91
Kurtosis	36.47
Coeff. of Variation	1.00
Minimum	0.00
Maximum	55.36
Range Width	55.36
Mean Std. Error	0.01

Forecast: SWQC · PFOA (cont'd)

Percentiles:	Forecast values
0%	0.00
10%	0.49
20%	0.74
30%	0.99
40%	1.26
50%	1.56
60%	1.93
70%	2.42
80%	3.15
90%	4.53
100%	55.36

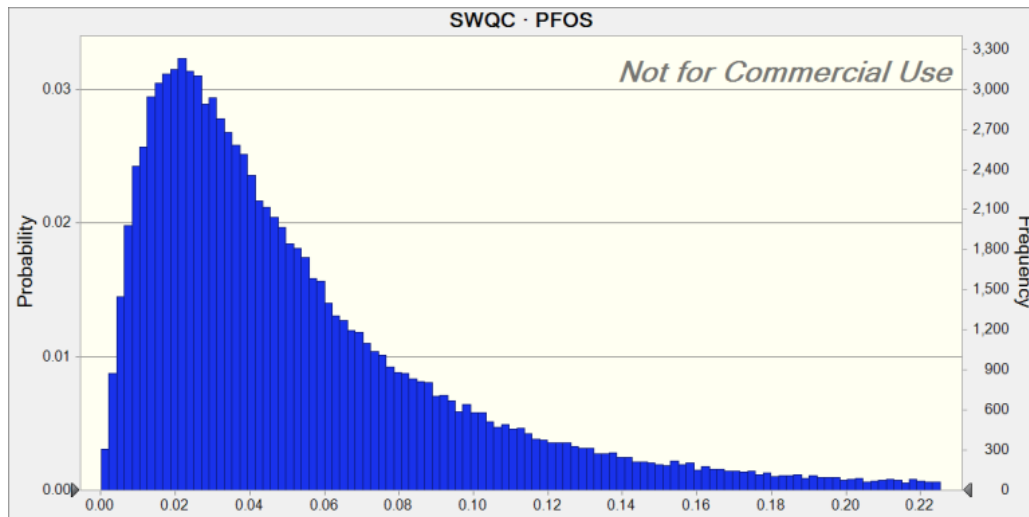
Forecast: SWQC · PFOS

Summary:

Entire range is from 0.00 to 1.30

Base case is 0.03

After 100,000 trials, the std. error of the mean is 0.00



Statistics:

Trials	100,000
Base Case	0.03
Mean	0.06
Median	0.04
Mode	---
Standard Deviation	0.06
Variance	0.00
Skewness	3.61
Kurtosis	28.36
Coeff. of Variation	1.01
Minimum	0.00
Maximum	1.30
Range Width	1.30
Mean Std. Error	0.00

Forecast values

Forecast: SWQC · PFOS (cont'd)

Percentiles:

0%	0.00
10%	0.01
20%	0.02
30%	0.03
40%	0.03

Forecast values

50%	0.04
60%	0.05
70%	0.06
80%	0.09
90%	0.12
100%	1.30

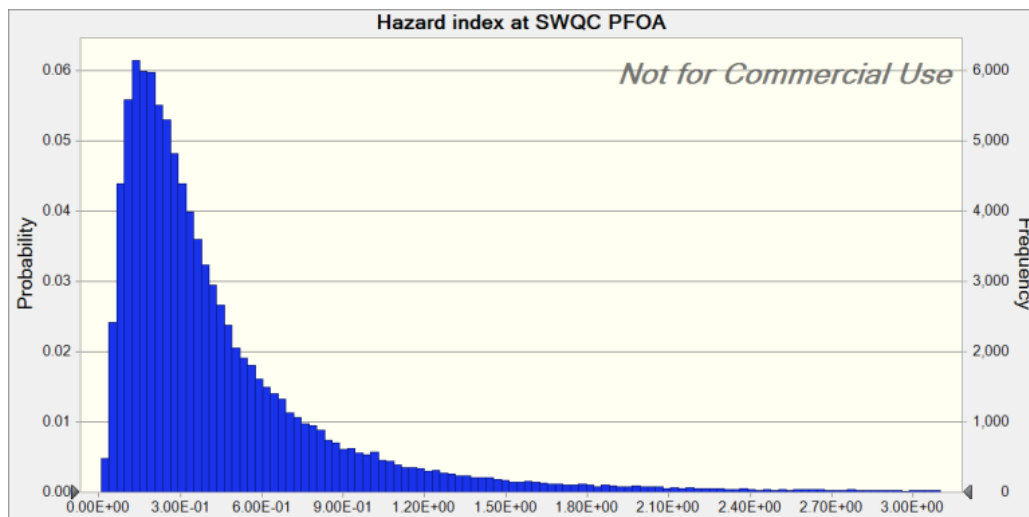
Forecast: Hazard index at SWQC PFOA

Summary:

Entire range is from 8.85E-03 to 1.30E+02

Base case is 4.21E-01

After 100,000 trials, the std. error of the mean is 2.93E-03



Statistics:

Trials	100,000
Base Case	4.21E-01
Mean	5.04E-01
Median	3.14E-01
Mode	---
Standard Deviation	9.28E-01
Variance	8.60E-01
Skewness	39.79
Kurtosis	4,200.66
Coeff. of Variation	1.84
Minimum	8.85E-03
Maximum	1.30E+02
Range Width	1.30E+02
Mean Std. Error	2.93E-03

Forecast values

Forecast: Hazard index at SWQC PFOA (cont'd)

Percentiles:	Forecast values
0%	8.85E-03
10%	1.08E-01
20%	1.55E-01
30%	2.03E-01
40%	2.54E-01
50%	3.14E-01
60%	3.90E-01
70%	4.94E-01
80%	6.61E-01
90%	9.99E-01
100%	1.30E+02

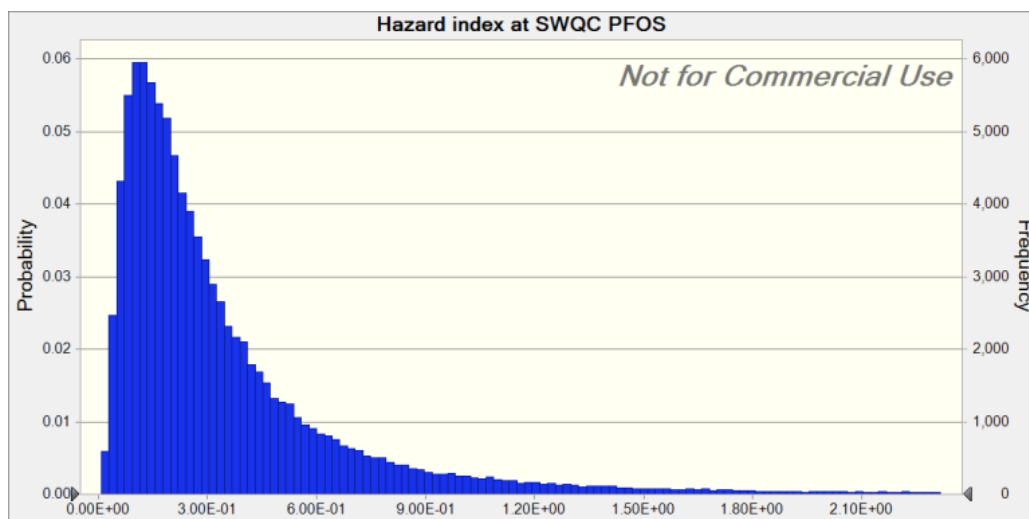
Forecast: Hazard index at SWQC PFOS

Summary:

Entire range is from 7.67E-03 to 6.68E+01

Base case is 3.28E-01

After 100,000 trials, the std. error of the mean is 2.17E-03



Statistics:	Forecast values
Trials	100,000
Base Case	3.28E-01
Mean	3.93E-01
Median	2.42E-01
Mode	---
Standard Deviation	6.87E-01
Variance	4.72E-01
Skewness	23.39

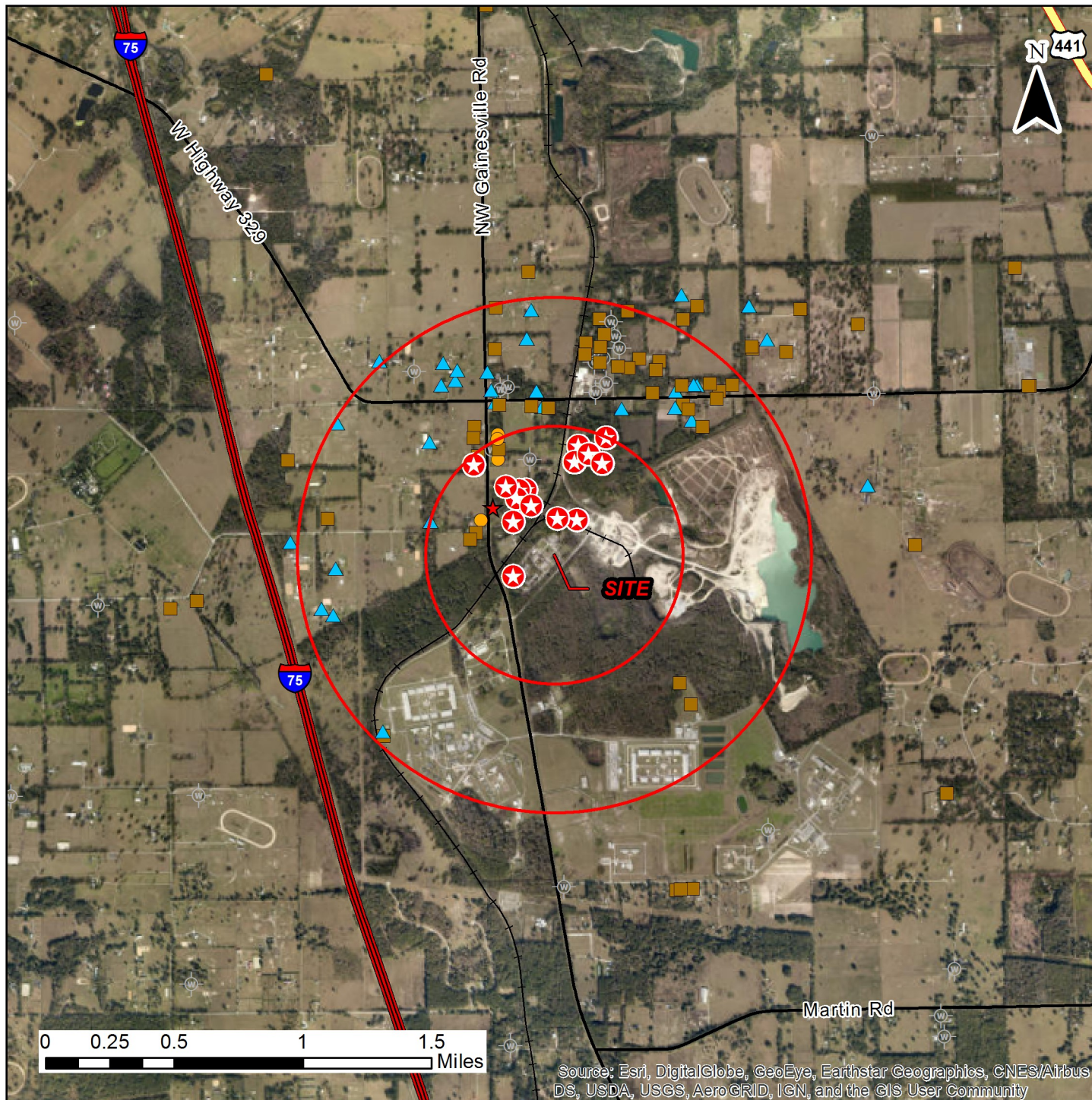
Kurtosis	1,359.36
Coeff. of Variation	1.75
Minimum	7.67E-03
Maximum	6.68E+01
Range Width	6.68E+01
Mean Std. Error	2.17E-03

Forecast: Hazard index at SWQC PFOS (cont'd)

Percentiles:	Forecast values
0%	7.67E-03
10%	8.16E-02
20%	1.18E-01
30%	1.54E-01
40%	1.94E-01
50%	2.42E-01
60%	3.01E-01
70%	3.83E-01
80%	5.11E-01
90%	7.79E-01
100%	6.68E+01

APPENDIX B
Florida Department of Health Potable Well
Survey

Florida State Fire College Well Sampling



PFAS Sample Results

PFAS Level

- ★ >HAL
- ★ >1/2 HAL
- >1/4 HAL
- <1/4 HAL
- ▲ BDL
- ⊗ No Sample for this Analysis

Wells PFAS Level

15	>HAL
1	>1/2 HAL
4	>1/4 HAL
58	<1/4 HAL
32	Below Detection



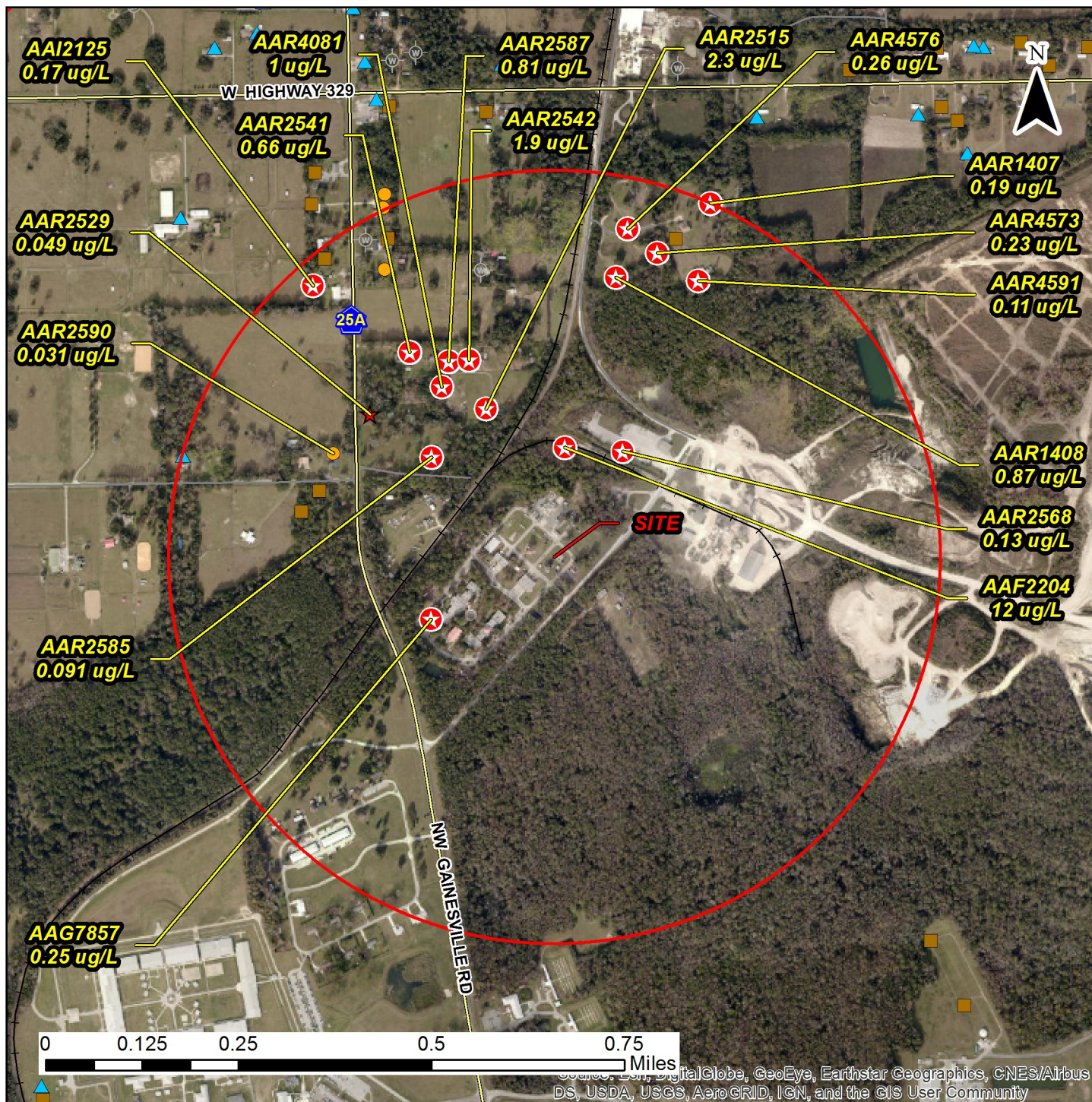
**Florida
Department of Health
Bureau of
Environmental Health**

Disclaimer

This product is for reference purposes only and is not to be construed as a legal document. Any reliance on the information contained herein is at the user's own risk. The Florida Department of Health and its agents assume no responsibility for any use of the information contained herein or any loss resulting therefrom.

Date: 8/6/2019

Florida State Fire College Well Sampling



**Florida
Department of Health
Bureau of
Environmental Health**

Disclaimer

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Date: 8/6/2019

APPENDIX C

Historic Groundwater Elevation Maps



Figure 5 Deep Groundwater Elevation Contours
28 August 2019
Florida State Fire College
11655 NW Gainesville Road
Ocala, Marion County, Florida

Notes:

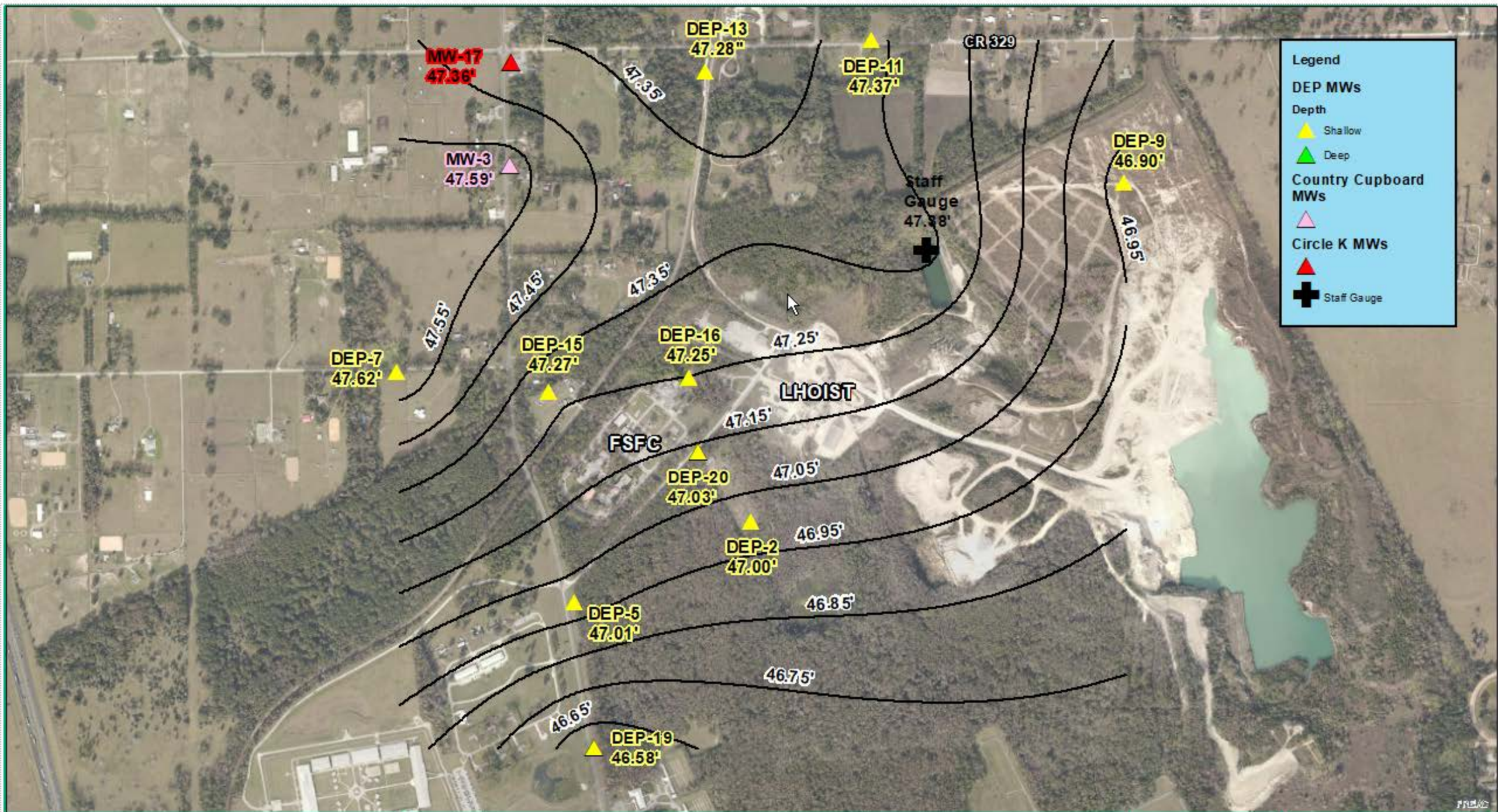
1. Groundwater elevation presented in North American Vertical Datum of 1988 (NAVD88), feet (ft).
2. AOC indicates area of concern.
3. Screen interval is presented in feet (') below land surface.
4. Source of 2017 aerial: Florida Department of Transportation Aerial Photo Look Up System website.

Date: November 19, 2019



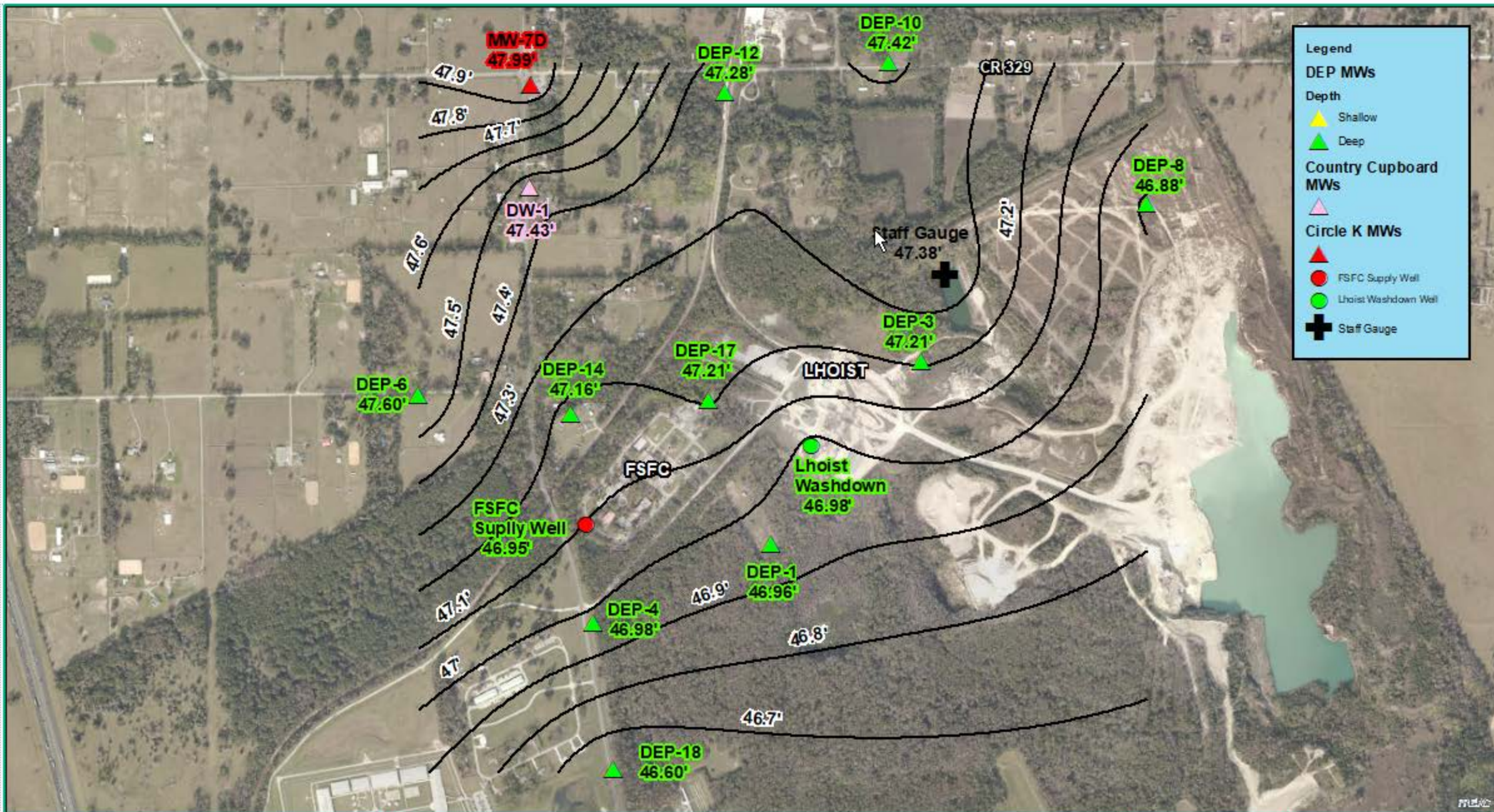
700
Feet





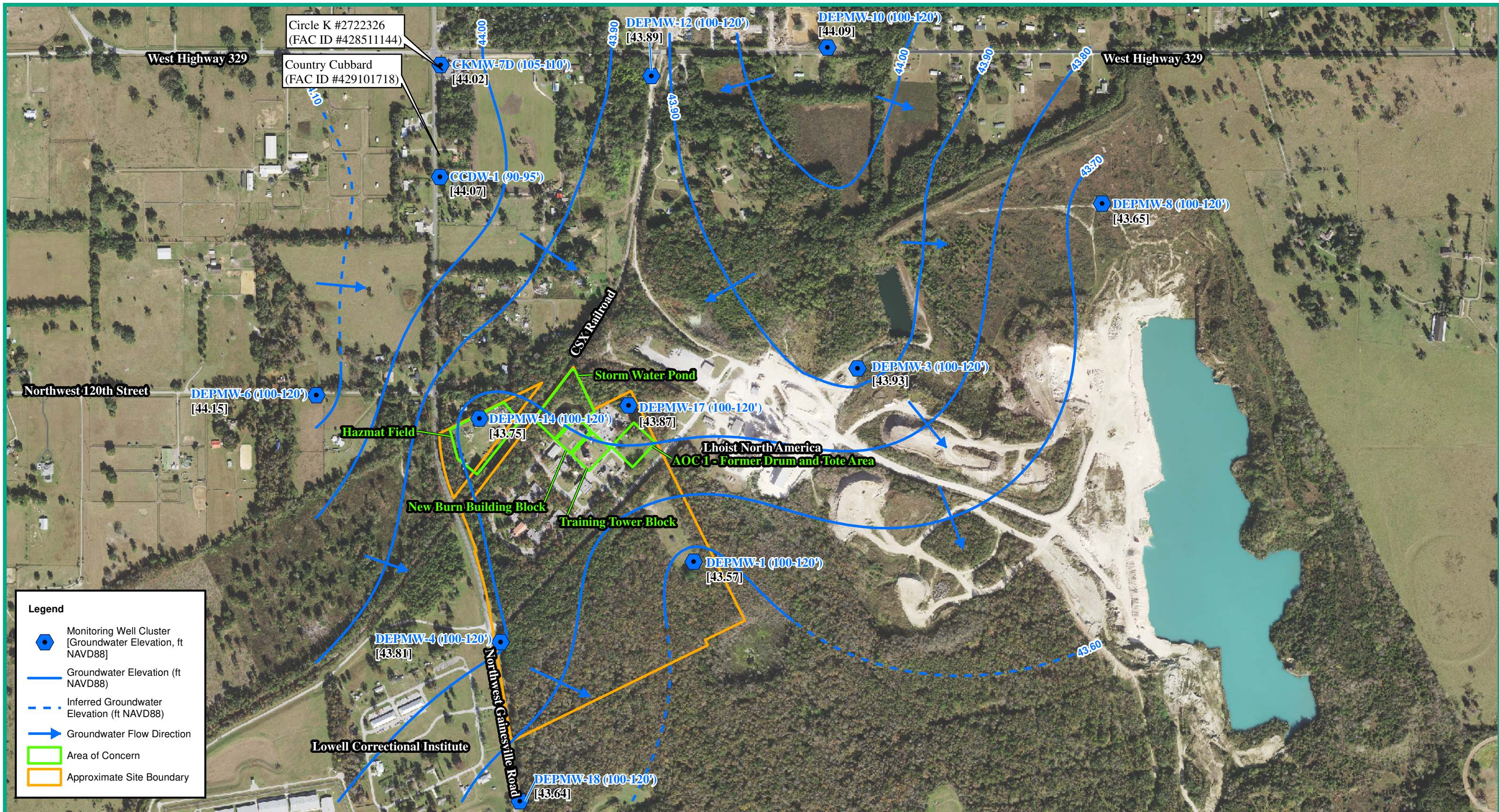
FDEP Site Investigation
 Shallow Ground Water Elevations 11-20-19
 Florida State Fire College
 11655 NW Gainesville Road
 Ocala, Marion County, Florida





FDE P Site Investigation
 Deep Ground Water Elevations 11-20-19
 Florida State Fire College
 11655 NW Gainesville Road
 Ocala, Marion County, Florida





APPENDIX D

Field Forms



Daily PFAS Sampling Checklist

Date: 02/21/2022

Site Name: Florida State Fire College

Weather (temperature/precipitation): cool/sunny AM; hot/sunny PM

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☐ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☐ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☐ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks → not w/in exclusion zone
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

↳ Luminox okay too per SOPs

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

- LDPE bags for soil sampling; EQB collected to confirm PFAS-free
- no overboots worn during sampling; FRB collected to evaluate potential cross-contamination

Field Team Leader Name (Print): Olivia Cain

Field Team Leader Signature: 

Date/Time: 02/21/2022 @ 0900

Daily PFAS Sampling Checklist

Date: 02/22/2022

Site Name: FSFC

Weather (temperature/precipitation): COOL/SUNNY AM; hot/SUNNY PM

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☐ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☐ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks w/in exclusion zone
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

↳ Wminox okay too

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

See notes from 02/21/2022

Field Team Leader Name (Print): Olivia Cain

Field Team Leader Signature:



Date/Time: 02/22/2022 0810

Daily PFAS Sampling Checklist

Date: 02/23/2022

Site Name: FSFC

Weather (temperature/precipitation): COOL AM ; SUNNY / HOT PM

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☐ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☐ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☐ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks w/in exclusion zone
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

See notes from 02/21/2022

Field Team Leader Name (Print): Olivia Cain

Field Team Leader Signature: 

Date/Time: 02/23/2022 @ 0720

Daily PFAS Sampling Checklist

Date: 2/23/2022

Site Name: FSFC

Weather (*temperature/precipitation*): SUNNY / NOT

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☐ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☐ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

SEE NOTES FROM 02/21/2022

Field Team Leader Name (Print): FABIO FORRES

Field Team Leader Signature: 

Date/Time: 02/24/2022 8:10

Daily PFAS Sampling Checklist

Date: 02/28/2022

Site Name: FSFC

Weather (temperature/precipitation): cool/sunny AM ; warm/sunny PM

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☐ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks in exclusion zone
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

↳ Luminox okay too

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

No overboots worn - field blank collected.
Will be

Field Team Leader Name (Print): Olivia Cain

Field Team Leader Signature: 

Date/Time: 02/28/2022 0925

Daily PFAS Sampling Checklist

Date: 3/2/2022

Site Name: FSFC

Weather (temperature/precipitation): cool/sunny, 43°F

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

- no overboots worn during sampling/SS
- EQB collected to confirm PFAS-free
- FRQ collected to confirm no cross-contamination

Field Team Leader Name (Print): Stephanie Sanchez

Field Team Leader Signature: 

Date/Time: 3/2/2022 @ 814

Daily PFAS Sampling Checklist

Date: 3/3/2022

Site Name: Florida State Fire College

Weather (temperature/precipitation): sunny/cool 50°F AM; sunny/warm 80°F PM

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

• no overboots worn during sampling

Field Team Leader Name (Print): Stephanie Sanchez

Field Team Leader Signature: 

Date/Time: 3/3/2022 8:18

Daily PFAS Sampling Checklist

Date: 3-4-22

Site Name: FSFC

Weather (temperature/precipitation): 54° clear

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☐ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print):

Ar. Sayer

Field Team Leader Signature:

[Signature]

Date/Time:

3-4-22 7:54

Daily PFAS Sampling Checklist

Date: 3/7/22

Site Name: Florida State Fire College

Weather (temperature/precipitation): 86°F / Sunny

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

No over boots worn during sampling

Field Team Leader Name (Print): Ryan Joslyn

Field Team Leader Signature: Ryan Joslyn

Date/Time: 3/7/22 1100

Daily PFAS Sampling Checklist

Date: 3/8/22

Site Name: FSFC (Florida State Fire College)

Weather (temperature/precipitation): 83°F / cloudy / heavy rain b/w 1535-1600

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field staff did not hear boat horns during sampling

Field Team Leader Name (Print): Ryan Joslyn

Field Team Leader Signature: Ryan Joslyn

Date/Time: 3/8/2022 1100

Daily PFAS Sampling Checklist

Date: 3/9/2022

Site Name: Florida State Fm College

Weather (temperature/precipitation): 83°F / cloudy (~0.05 inch at end of day)

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

No overboots worn during sampling.

Field Team Leader Name (Print): Ryan Dossyn

Field Team Leader Signature: Ryan Dossyn

Date/Time: 3/9/2022 1730

Daily PFAS Sampling Checklist

Date: 3/10/2022

Site Name: Florida State Fire College

Weather (temperature/precipitation): 74°F / rainy

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☐ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field staff did not wear overboots during sample collection

Field Team Leader Name (Print): Ryan Joslin

Field Team Leader Signature: Ryan Joslin

Date/Time: 5/10/2022

Daily PFAS Sampling Checklist

Date: 3/14/22

Site Name: FSFL

Weather (temperature/precipitation): 75°/45° ~ 10% chance of rain

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Ethan Upton

Field Team Leader Signature: Ethan Upton

Date/Time: 3/14/22 0900

Daily PFAS Sampling Checklist

Date: 3/15/22

Site Name: FSFC

Weather (temperature/precipitation): 79°/59° - 100% chance of rain

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Ethan Gorton

Field Team Leader Signature: Ethan Gorton

Date/Time: 3/15/22 - 0750

Daily PFAS Sampling Checklist

Date: 3/16/22

Site Name: FSTC

Weather (temperature/precipitation): 75 / 56 - 60% chance of rain

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Ethan Gray

Field Team Leader Signature: Ethan

Date/Time: 3/16/22 - 0740

Daily PFAS Sampling Checklist

Date: 3/17/22

Site Name: FSFC

Weather (temperature/precipitation): 79/55 - 0% chance of rain

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Ethan Upton

Field Team Leader Signature: Ethan Upton

Date/Time: 3/17/22 0245

Daily PFAS Sampling Checklist

Date: 3/18/22

Site Name: FSFC

Weather (temperature/precipitation): JP / 54° - 10% chance of rain

Please check all boxes that apply and describe any exceptions in the notes section below along with QA/QC methods used to assess potential sample cross-contamination as a result.

Field Clothing and PPE:

- ☒ No water- or stain-resistant clothing (e.g., GORE-TEX®)
- ☒ During collection of water and sediment samples, no water- or stain-resistant boots OR water- or stain-resistant boots covered by PFAS-free over-boots
- ☒ Field boots (or over-boots) are made of polyurethane, PVC, rubber, or untreated leather
- ☒ Waders or rain gear are made of polyurethane, PVC, vinyl, wax-coated or rubber
- ☒ Clothing has not been recently laundered with a fabric softener
- ☒ No coated HDPE suits (e.g., coated Tyvek® suits)
- ☒ Field crew has not used cosmetics, moisturizers, or other related products today
- ☒ Field crew has not used sunscreen or insect repellants today, other than products approved as PFAS-free

Field Equipment:

- ☒ Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- ☒ Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- ☒ No materials containing Teflon™, Viton™, or fluoropolymers
- ☒ No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks
- ☒ No waterproof field books
- ☒ No waterproof or felt pens or markers (e.g., certain Sharpie® products)
- ☒ No chemical (blue) ice, unless it is contained in a sealed bag
- ☒ No aluminum foil
- ☒ No sticky notes (e.g., certain Post-It® products)

Decontamination:

- ☒ Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- ☒ "PFAS-free" water is on-site for decontamination of field equipment
- ☒ Alconox® or Liquinox® used as decontamination detergent

Food and Drink:

- ☒ No food or drink on-site, except within staging area
- ☒ Food in staging area is contained in HDPE or stainless steel container

Notes:

Field Team Leader Name (Print): Ethan Upton

Field Team Leader Signature: Ethan Upton

Date/Time: 3/18/22 - 0740

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
Soil Samples					
SB-289	SB-289 (0-0.5')	0-0.5	HA	2-22-22 @ 1050	SAND FINE GRAINED DARK BROWN
	SB-289 (0.5-2')	0.5-2		2-22-22 @ 1055	SAND FINE GRAINED DARK BROWN
	SB-289 (2-4')	2-4		2-22-22 @ 1100	SAND FINE GRAINED DARK BROWN
SB-290	SB-290 (0-0.5')	0-0.5	HA	2-22-22 @ 1115	SAND FINE GRAINED BROWN
	SB-290 (0.5-2')	0.5-2		2-22-22 @ 1120	SAND FINE GRAINED LIGHT BROWN
	SB-290 (2-4')	2-4		2-22-22 @ 1125	CLAYEY SAND LIGHT BROWN
SB-291	SB-291 (0-0.5')	0-0.5	HA	2-22-22 @ 1145	SAND FINE TO MEDIUM GRAINED GRAY
	SB-291 (0.5-2')	0.5-2		2-22-22 @ 1150	SAND FINE GRAINED LIGHT BROWN
	SB-291 (2-4')	2-4		2-22-22 @ 1155	SAND FINE GRAINED LIGHT BROWN
SB-292	SB-292 (0-0.5')	0-0.5	HA	2-22-22 @ 1315	SAND MEDIUM TO FINE GRAINED BROWN
	SB-292 (0.5-2')	0.5-2		2-22-22 @ 1320	SAND FINE GRAINED LIGHT BROWN
	SB-292 (2-4')	2-4		2-22-22 @ 1325	SAND FINE GRAINED LIGHT BROWN
SB-293	SB-293 (0-0.5')	0-0.5	HA	2-22-22 @ 1335	SAND MEDIUM TO FINE GRAY
	SB-293 (0.5-2')	0.5-2		2-22-22 @ 1340	SAND MEDIUM TO FINE GRAINED BROWN
	SB-293 (2-4')	2-4		2-22-22 @ 1345	CLAYEY SAND LIGHT BROWN
SB-294	SB-294 (0-0.5')	0-0.5	HA	2-22-22 @ 14:00	SAND FINE TO MEDIUM GRAINED BROWN
	SB-294 (0.5-2')	0.5-2		2-22-22 @ 1405	SANDY CLAY LIGHT BROWN
	SB-294 (2-4')	2-4		2-22-22 @ 1410	SANDY CLAY LIGHT BROWN
SB-295	SB-295 (0-0.5')	0-0.5	HA	2-22-22 @ 1420	SANDY CLAY DARK BROWN
	SB-295 (0.5-2')	0.5-2		2-22-22 @ 1425	CLAYEY SAND BROWN
	SB-295 (2-4')	2-4		2-22-22 @ 1430	SANDY CLAY BROWN

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SB-296	SB-296 (0-0.5')	0-0.5	HA	2-22-22@14:50	SAND MEDIUM TO FINE GRAINED BROWN
	SB-296 (0.5-2')	0.5-2		2-22-22@14:55	SAND FINE GRAINED BROWN
	SB-296 (2-4')	2-4		2-22-22@15:00	SAND FINE GRAINED LIGHT BROWN
SB-297	SB-297 (0-0.5')	0-0.5	HA	2-22-22@15:30	SAND MEDIUM TO FINE GRAINED GRAY
	SB-297 (0.5-2')	0.5-2		2-22-22@15:35	SAND FINE GRAINED LIGHT BROWN
	SB-297 (2-4')	2-4		2-22-22@15:40	SAND FINE GRAINED LIGHT BROWN
SB-298	SB-298 (0-0.5')	0-0.5	HA	2-22-22@16:20	SAND FINE GRAINED GRAY
	SB-298 (0.5-2')	0.5-2		2-22-22@16:25	SAND FINE GRAINED LIGHT BROWN
	SB-298 (2-4')	2-4		2-22-22@16:30	CLAYEY SAND LIGHT BROWN
SB-299	SB-299 (0-0.5')	0-0.5	HA	2-23-22@0905	SAND, Fine grained, light brown
	SB-299 (0.5-2')	0.5-2		2-23-22@0900	SAND, Fine grained, light brown
	SB-299 (2-4')	2-4		2-23-22@0905	SAND, v. Fine grained, light brown
SB-300	SB-300 (0-0.5')	0-0.5	HA	2-23-22@0935	SAND, Fine grained, brown
	SB-300 (0.5-2')	0.5-2		2-23-22@0940	SAND, v. Fine grained, brown
	SB-300 (2-4')	2-4		2-23-22@0945	SAND, Fine grained, brown
SB-301	SB-301 (0-0.5')	0-0.5	HA	2-23-22@1015	CLAYEY SAND, Fine grained, brown
	SB-301 (0.5-2')	0.5-2		2-23-22@1020	CLAYEY SAND w/LS, Fine grained, brown
	SB-301 (2-4')	2-4		(F) 2-23-22@1025	Refusal at 2'

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SB-302	SB-302 (0-0.5')	0-0.5	HA	2-23-22 @ 1125	SAND, v. Fine grained, Brown
	SB-302 (0.5-2')	0.5-2		2-23-22 @ 1130	Clayey SAND, Fine grained, light brown
	SB-302 (2-4')	2-4		2-23-22 @ 1135	CLAY, low plasticity, brown
	SB-302 (4-6')	4-6		2-23-22 @ 1145	CLAY, low plasticity, brown
	SB-302 (6-8') (6-7')	6-8 (6-7)		2-23-22 @ 1155	SAND, LS at 7' - Refuse 1
SB-303	SB-303 (0-0.5')	0-0.5	HA	2-23-22 @ 1340	SAND, v. Fine grained, Brown
	SB-303 (0.5-2')	0.5-2		2-23-22 @ 1345	SAND w/ some clay, v. Fine grained, Brown
	SB-303 (2-4')	2-4		2-23-22 @ 1350	Clayey SAND, Fine grained, Brown
	SB-303 (4-6')	4-6		2-23-22 @ 1400	CLAY, low plasticity, brownish gray
	SB-303 (6-8')	6-8		2-23-22 @ 1410	CLAY w/ LS gravel, low plasticity, brownish gray
SB-304	SB-304 (0-0.5')	0-0.5	HA	2-23-22 @ 1450	SAND, v. Fine grained, gray
	SB-304 (0.5-2')	0.5-2		2-23-22 @ 1455	SAND w/ some clay, v. Fine grained brownish gray
	SB-304 (2-4')	2-4		2-23-22 @ 1500	Clayey SAND, Fine grained, brown
	SB-304 (4-6')	4-6		2-23-22 @ 1510	Clayey SAND, w/ LS gravel, F. grained, Brown
	SB-304 (6-8')	6-8		—	Refuse 1 at 6'
SB-305	SB-305 (0-0.5')	0-0.5	HA	2-24-22 @ 1040	SAND, v. Fine grained, brown
	SB-305 (0.5-2')	0.5-2		2-24-22 @ 1045	SAND, v. Fine grained, light brown
	SB-305 (2-4')	2-4		2-24-22 @ 1050	SAND, v. Fine grained, light brown
	SB-305 (4-6')	4-6		2-24-22 @ 1100	SAND, v. Fine grained, light brown
	SB-305 (6-8')	6-8		2-24-22 @ 1110	Clayey SAND, v. Fine grained, brown

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SB-306	SB-306 (0-0.5')	0-0.5	HA	2-24-22 @ 0910	SAND, v. Fine grained, gray
	SB-306 (0.5-2')	0.5-2		2-24-22 @ 0955	SAND, v. Fine grained, ^{light} brown
	SB-306 (2-4')	2-4		2-24-22 @ 1000	SAND, v. Fine grained, light brown
	SB-306 (4-6')	4-6		2-24-22 @ 1010	SAND, v. Fine grained, Pale yellow
	SB-306 (6-8')	6-8		2-24-22 @ 1020	Clayey SAND, v. Fine grained, ^{pale} yellow to brown
SB-307	SB-307 (0-0.5')	0-0.5	HA	2-24-22 @ 0945	Clayey SAND, Fine grained, brown
	SB-307 (0.5-2')	0.5-2		2-24-22 @ 0950	Clayey SAND, v. Fine grained, brown
	SB-307 (2-4')	2-4		2-24-22 @ 0955	Sandy CLAY, low Plasticity, gray
	SB-307 (4-6')	4-6		2-24-22 @ 0905	Sandy CLAY, low Plasticity, gray
	SB-307 (6-8')	6-8		2-24-22 @ 0915	CLAY, low Plasticity, gray
SB-308	SB-308 (0-0.5')	0-0.5	HA	2-23-22 @ 1615	SAND, Fine grained, Brown
	SB-308 (0.5-2')	0.5-2		2-23-22 @ 1620	SAND, v. Fine grained, Brown
	SB-308 (2-4')	2-4		2-23-22 @ 1625	SAND, v. Fine grained, BROWN
	SB-308 (4-6')	4-6		2-23-22 @ 1630	SAND w/ some clay, Fine grained, Brown sh gray
	SB-308 (6-8')	6-8		2-23-22 @ 1640	SAND, v. Fine grained, light brown

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SB-309	SB-309 (0-0.5')	0-0.5	HA	2-24-22 @ 1125	Clayey SAND, v. Fine grained, Pale yellow
	SB-309 (0.5-2')	0.5-2		2-24-22 @ 1130	Clayey SAND, v. Fine grained, Pale yellow
	SB-309 (2-4')	2-4		2-24-22 @ 1140	Clayey SAND, v. Fine grained, Pale yellow
	SB-309 (4-6')	4-6	DPT		
	SB-309 (6-8')	6-8			
	SB-309 (10-12')	10-12			
	SB-309 (13-15')	13-15			
	SB-309 (23-25')	23-25			
	SB-309 (33-35')	33-35			
DPT Groundwater Samples					
SP-15	SP-15 (41-45')	41-45	DPT		
	SP-15 (51-55')	51-55			
	SP-15 (61-65')	61-65			
	SP-15 (71-75')	71-75			
	SP-15 (81-85')	81-85			
	SP-15 (91-95')	91-95			
	SP-15 (101-105')	101-105			
	SP-15 (111-115')	111-115			

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
Monitoring Well Samples					
DEPMW-2 (35-55)	DEPMW-2 (35-55)	35-55	Submersible Pump	2/21/22 1735	
	DEPMW-2 (35-55) DUP			2/21/22 1735	
DEPMW-6 (100-120)	DEPMW-6 (100-120)	100-120		2/22/22 1144	
DEPMW-9 (40-60)	DEPMW-9 (40-60)	40-60		2/22/22 1246	
DEPMW-15 (35-55)	DEPMW-15 (35-55)	35-55		2/22/22 1013	
DEPMW-19 (45-65)	DEPMW-19 (45-65)	45-65		2/21/22 1711	
QA/QC Samples					
Activity	Sample ID	Equipment Sampled		Date and Time	Comments
Monitoring Well Sampling	EQB-71	Submersible Pump		2/22/22 0900	Sample collected before: DEPMW-19 (45-65) Sample collected after: Bottle number: 000751
HA Soil Sampling	EQB-72	HA		2/22/22 1445	Sample collected before: SB-295 (2-4') (0-0.5') Sample collected after: SB-296 (0-0.5') Bottle number: 000700
	EQB-73			2/22/22 1545	Sample collected before: SB-297 (0-0.5') Sample collected after: SB-298 (0-0.5') Bottle number: 000700
	EQB-74			2/23/22 0930	Sample collected before: Sample collected after: Taken off of bag Bottle number: 000702
	EQB-75			2/23/22 1430	Sample collected before: SB-303 (0-0.5') Sample collected after: SB-304 (0-0.5') Bottle number: 000702
	EQB-76			2/24/22 0935	Sample collected before: SB-307 (0-0.5') Sample collected after: SB-306 (0-0.5') Bottle number: 000702
	EQB-77			2/24/22 1025	Sample collected before: SB-306 (0-0.5') Sample collected after: SB-305 (0-0.5') Bottle number: 000726
	EQB-78			2/24/22 1150	Sample collected before: SB-309 (0-0.5') Sample collected after: Bottle number: 000720

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments	
Contingency DPT Groundwater Sampling	EQB-96	DPT Groundwater Sampler	N/A		Sample collected before: Sample collected after: Bottle number:	
	EQB-97				Sample collected before: Sample collected after: Bottle number:	
	EQB-98				Sample collected before: Sample collected after: Bottle number:	
	EQB-99			Sample collected before: Sample collected after: Bottle number:		
Monitoring Well Sampling	FRB-33	N/A		EV	2-22-22 @ 1000	Sample location and field activity: By DEPMU-15 / GW Sampling
Soil Sampling Decontamination	FRB-34				2-22-22 @ 14:40	Sample location and field activity: By SB-295 / HA SAMPLING
DPT Groundwater Sampling	FRB-35				2-22-22 @ 1000	Sample location and field activity: By DEPMU-15 / GW Sampling
Extra	FRB-36					Sample location and field activity:
	FRB-37					Sample location and field activity:

Water Level Measurement Field Form

Site: Florida State Fire College

Project No.: FR3511H

Date 2/21/22
Weather 81°/54° - 10% chance of rain
Initials EU, RM

Page 1 of 1

Well ID	Status	Control Point	Time of Measurement	Measurement	
		Monitoring Point		Depth to Water feet	Depth to Bottom feet
CCDW-1	GOOD	NORTH	1127	64.22	NM
CCMW-3	GOOD	NORTH	1129	67.43	
CKMW-17	GOOD	NORTH	1144	61.35	
CK-MW-7D	GOOD	NORTH	1149	61.53	
DEPMW-1	GOOD	North	1016	39.51	
DEPMW-2	GOOD	North	1012	39.89	
DEPMW-3	GOOD	North	0948	56.73	
DEPMW-4	GOOD	North	1031	63.69	
DEPMW-5	GOOD	North	1037	63.65	
DEPMW-6	GOOD	North	1107	34.55	
DEPMW-7	GOOD	NORTH	1103	35.14	
DEPMW-8	GOOD	North	0930	48.80	
DEPMW-9	GOOD	North	0935	48.68	
DEPMW-10	GOOD	NORTH	1214	34.80	
DEPMW-11	GOOD	NORTH	1210	35.44	
DEPMW-12	GOOD	NORTH	1200	50.77	
DEPMW-13	GOOD	NORTH	1204	50.65	
DEPMW-14	GOOD	NORTH	1341	38.23	
DEPMW-15	GOOD	NORTH	1334	38.61	
DEPMW-16	GOOD	NORTH	1400	34.47	
DEPMW-17	GOOD	NORTH	1354	34.03	
DEPMW-18	GOOD	NORTH	1049	54.48	
DEPMW-19	GOOD	NORTH	1052	54.71	
DEPMW-20	GOOD	NORTH	1001	37.81	

Notes

GROUNDWATER SAMPLING LOG

PURGING DATA						
WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/8	WELL SCREEN INTERVAL DEPTH: 35 feet to 55 feet	STATIC DEPTH TO WATER (feet): 39.89 (80c)	PURGE PUMP TYPE OR BAILER: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)						
	= (55	ft = 39.89	ft) X 0.116	gallons/foot = 2.41		

INITIAL PUMP OR TUBING	FINAL PUMP OR TUBING	PURGING	PURGING	TOTAL VOLUME
DEPTH IN WELL (feet): ~41	DEPTH IN WELL (feet): ~41	INITIATED AT: 1634	ENDED AT: 1734	PURGED (gallons): 12.0

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0028; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

PUMP OR TUBING DEPTH IN WELL (feet):	~41 (ETOC)	SAMPLE PUMP FLOW RATE (mL per minute):	TUBING MATERIAL CODE: HDPE
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SAMPLE CONTAINER SPECIFICATION	SAMPLE PRESERVATION	INTENDED ANALYSIS	SAMPLING PUMP FLOW	SAMPLE PUMP FLOW
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REMARKS: SAMPLE TIME: 1735 * NUP collected here

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
RBPB = Reverse Flow Peristaltic Pump; SM = Suction Method (Tubing Gravity Drain); MT = Manometer Tap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62B60, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: + 0.2 units Temperature: + 0.2 °C Specific Conductance: + 5% Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

DEP-SOP-001/01
 FS 220 Groundwater Sampling
 Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Florida State Fire College		SITE LOCATION: 11655 NW Gainesville Rd, Ocala, FL	
WELL NO: DEPMW-6 (100-120')	SAMPLE ID: DEPMW-6 (100-120')	DATE: 2/22/22	

PURGING DATA

[illegible]

SAMPLING DATA

[illegible]

REMARKS: *Sample collected at 1144*

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: + 0.2 units **Temperature:** + 0.2 °C **Specific Conductance:** + 5% **Dissolved Oxygen:** all readings < 20% saturation (see Table FS 2200-2); optionally, + 0.2 mg/L or + 10% (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

DEP-SOP-001/01
 FS 220 Groundwater Sampling
 Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: Florida State Fire College		SITE LOCATION: 11655 NW Gainesville Rd, Ocala, FL	
WELL NO: DEPMW-9 (40-60')	SAMPLE ID: DEPMW-9 (40-60')	DATE: 2/22/22	

PURGING DATA

WELL	2	TUBING	3/4	WELL SCREEN INTERVAL	DEPTH: 40 feet to 60 feet	STATIC DEPTH TO WATER	(feet): 44.65	PURGE PUMP TYPE	OR BAILER: PP
DIAMETER (inches):		DIAMETER (inches):		WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY					
(only fill out if applicable)		= 14.6063 ft - 44.65		ft) X 1.6		gallons/foot = 2.3			
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME									
(only fill out if applicable)		= 0.1		gallons + (		gallons/foot X		feet) + 0.1	

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

[illegible]

REMARKS: Φ Sample collected at 1246

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump
EQUIPMENT CODES: **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: + 0.2 units **Temperature:** + 0.2 °C **Specific Conductance:** + 5% **Dissolved Oxygen:** all readings < 20% saturation (see Table FS 2200-2); **optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity:** all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SITE NAME: Florida State Fire College		SITE LOCATION: 11655 NW Gainesville Rd, Ocala, FL	
WELL NO: DEPHV-15 (35-55')	SAMPLE ID: DEPHV-15 (35-55')	DATE: 2/22/22	

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	3/4	WELL SCREEN INTERVAL DEPTH:	35 feet to 55 feet	STATIC DEPTH TO WATER (feet):	32.61	PURGE PUMP TYPE OR BAILER:	PP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)									
= (55 ft - 32.61 ft) X 16 gallons/foot = 2.63									

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)

= 0.1 gallons + (gallons/foot X feet) + 0.1 gallons =

INITIAL PUMP OR TUBING	FINAL PUMP OR TUBING	PURGING	PURGING	TOTAL VOLUME
DEPTH IN WELL (feet): ~40	DEPTH IN WELL (feet): ~40	INITIATED AT: 0952	ENDED AT: 1012	PURGED (gallons): ~10.0

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88									
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016									

SAMPLED BY (PRINT) / AFFILIATION: <i>Ethan Upton / leasynotec</i>	SAMPLER(S) SIGNATURES: <i>Ethan</i>	SAMPLING INITIATED AT: <i>10/3</i>	SAMPLING ENDED AT: <i>10/6</i>
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PUMP OR TUBING DEPTH IN WELL (feet): <u>~40</u>	SAMPLE PUMP FLOW RATE (mL per minute): <u>~350</u>	TUBING MATERIAL CODE: HDPE
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FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: μm Filtration Equipment Type:	DUPLICATE: Y (N)
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[illegible]

REMARKS: ★ Sample collected 9/10/13 / Lab Qc collected for this sample

MATERIAL CODES:	AG = Amber Glass;	CG = Clear Glass;	PE = Polyethylene;	PP = Polypropylene;	S = Silicone;	T = Teflon;	O = Other (Specify)
SAMPLING/PURGING EQUIPMENT CODES:	APP = After Peristaltic Pump;	B = Bailor;	BP = Bladder Pump;	ESP = Electric Submersible Pump;	PP = Peristaltic Pump		
	RFPF = Reverse Flow Peristaltic Pump;	SM = Straw Method (Tubing Gravity Drain);	VT = Vacuum Trap;	O = Other (Specify)			

NOTES: 1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2 STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: + 0.2 units **Temperature:** + 0.2 oC **Specific Conductance:** + 5% **Dissolved Oxygen:** all readings < 20% saturation (see Table FS 2200-2);

optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME: Florida State Fire College		SITE LOCATION: 11655 NW Gainesville Rd, Ocala, FL	
WELL NO: DEPMW-19 (45-65)	SAMPLE ID: DEPMU-19 (45-65)	DATE: 2/21/22	

PURGING DATA

WELL	2	TUBING	3/8	WELL SCREEN INTERVAL	DEPTH: 45 feet to 65 feet	STATIC DEPTH TO WATER	(feet): 54.21	PURGE PUMP TYPE	OR BAILER: PP
DIAMETER (inches):		DIAMETER (inches):		WELL CAPACITY					
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY									
(only fill out if applicable)		= (65 ft - 54.21 ft) X 206.16 gallons/foot = 1.65							
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME									
(only fill out if applicable)		= 0.1 gallons + (— gallons/foot X — feet) + 0.1 gallons = —							

[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

[illegible]

REMARKS: ★ Sample Collected at 17:11 / PM requested we sample at 12:10 despite

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump

EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2 STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: + 0.2 units **Temperature:** + 0.2 oC **Specific Conductance:** + 5% **Dissolved Oxygen:** all readings < 20% saturation (see Table FS 2200-2);

optionally, + 0.2 mg/L or + 10% (whichever is greater) Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SB-309	SB-309 (0-0.5')	0-0.5	HA		
	SB-309 (0.5-2')	0.5-2			
	SB-309 (2-4')	2-4			
	SB-309 (4-6')	4-6	DPT		
	SB-309 (6-8')	6-8			
	SB-309 (10-12')	10-12			
	SB-309 (13-15')	13-15			
	SB-309 (23-25')	23-25			
	SB-309 (33-35')	33-35			
DPT Groundwater Samples					
SP-15	SP-15 (41-45')	41-45	DPT	—	Dry, No Sample
	SP-15 (51-55')	51-55		—	Dry, No Sample
	SP-15 (61-65')	61-65		3/14/22 1035	
	SP-15 (71-75')	71-75		3/14/22 1055	
	SP-15 (81-85')	81-85		3/14/22 1120	
	SP-15 (91-95')	91-95		3/14/22 1400	Very low producing
	SP-15 (101-105')	101-105		3/14/22 1430	High water production
	SP-15 (111-115')	111-115		—	Refusal at 102'

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-16	SP-16 (41-45')	41-45	DPT		Dry; no water production
	SP-16 (51-55')	51-55		3/8/2022 1000	Lt. Brown / yellow, extremely turbid
	SP-16 (61-65')	61-65		3/8/2022 1045	Dr. Brown → taken from tubes out of hole (backflow into bottles)
	SP-16 (71-75')	71-75		3/8/2022 1123	Lt. Brown, turbid
	SP-16 (81-85')	81-85		3/8/2022 1200	Brown, very turbid
	SP-16 (91-95')	91-95		3/8/2022 1405	white, extremely turbid
	SP-16 (101-105')	101-105		n 1410	Brown, extremely turbid
	SP-16 (111-115')	111-115			Retest at 106' BLS
SP-17	SP-17 (41-45')	41-45	DPT		
	SP-17 (41-45') DUP				
	SP-17 (51-55')	51-55			
	SP-17 (61-65')	61-65			
	SP-17 (71-75')	71-75			
	SP-17 (81-85')	81-85			
	SP-17 (91-95')	91-95			
	SP-17 (101-105')	101-105			
	SP-17 (111-115')	111-115			

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-18	SP-18 (41-45')	41-45	DPT		Dry ; no water production
	SP-18 (51-55')	51-55			Dry, no sample collected
	SP-18 (61-65')	61-65		3/9/2022 1510	White, slightly turbid
	SP-18 (61-65') DUP			11	11
	SP-18 (71-75')	71-75		3/9/2022 1544	Lt. Brown - yellow, extremely turbid
	SP-18 (81-85')	81-85		3/9/2022 1623	Brown, extremely turbid
	SP-18 (91-95')	91-95		11 1650	Lt. Brown - yellow, extremely turbid
	SP-18 (101-105')	101-105		3/10/2022 0750	Lt. Brown, turbid
	SP-18 (111-115')	111-115			no sample collected Rods broken at 45 ft BLS
SP-19	SP-19 (41-45')	41-45	DPT	3/15/22 0945	
	SP-19 (51-55')	51-55		3/15/22 1005	
	SP-19 (51-55') DUP			3/15/22 1005	
	SP-19 (61-65')	61-65		3/15/22 1030	
	SP-19 (71-75')	71-75		3/15/22 1100	
	SP-19 (81-85')	81-85		3/15/22 1145	
	SP-19 (91-95')	91-95		3/15/22 1210	
	SP-19 (101-105')	101-105		3/15/22 1425	
	SP-19 (111-115')	111-115		3/15/22 1540	

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-20	SP-20 (41-45')	41-45	DPT		
	SP-20 (41-45') DUP				
	SP-20 (51-55')	51-55			
	SP-20 (61-65')	61-65			
	SP-20 (71-75')	71-75			
	SP-20 (81-85')	81-85			
	SP-20 (91-95')	91-95			
	SP-20 (101-105')	101-105			
	SP-20 (111-115')	111-115			
SP-21	SP-21 (51-55')	51-55	DPT	3/9/2022 0850	white, slightly turbid
	SP-21 (61-65')	61-65		" 0910	white, turbid [Lab QA/QC Taken]
	SP-21 (71-75')	71-75		" 0930	white, extremely turbid
	SP-21 (81-85') (78-82')	78-82		" 0958	Hit refusal at 82 ft, white, very turbid
	SP-21 (81-85') DUP	81-85		" 0958	"
	SP-21 (91-95')	91-95			"

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

24
25

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-22	SP-22 (41-45')	41-45	DPT	3-2-22 8:24	Dry, No Sample
	SP-22 (51-55')	51-55		—	Dry, No Sample
	SP-22 (61-65')	61-65		3-2-22 9:04	Slow drilling
	SP-22 (71-75')	71-75		3-2-22 9:28	white, extremely turbid
	SP-22 (81-85')	81-85		3-2-22 9:56	" "
	SP-22 (81-85') DUP			3-2-22 9:58	" "
	SP-22 (91-95')	91-95		3-2-22 10:21	" "
	SP-22 (101-105')	101-105		3-2-22 10:50	Slow flow
	SP-22 (111-115')	111-115		3-2-22 11:25	white, extremely turbid
SP-23	SP-23 (41-45')	41-45	DPT	—	Dry, No Sample
	SP-23 (71-75')	71-75		3/7/2022 1450	white, turbid [Lab QA/QC Taken]
	SP-23 (81-85')	81-85		" 1515	lt. brown / white, very turbid
	SP-23 (91-95')	91-95		" 1540	white, turbid
SP-24	SP-24 (41-45')	41-45	DPT	—	Dry, No Sample
	SP-24 (51-55')	51-55		—	Dry, no Sample
	SP-24 (61-65')	61-65		—	Dry, no Sample
	SP-24 (71-75')	71-75		3-1-22 / 10:32	white, extremely turbid
	SP-24 (81-85')	81-85		3-1-22 / 10:56	white, extremely turbid [Lab QA/QC Taken]
	SP-24 (91-95')	91-95		3-1-22 / 11:28	White, turbid, slower recharge
	SP-24 (101-105')	101-105		3-1-22 / 12:01	white, turbid
	SP-24 (111-115')	111-115		3-1-22 12:41	" "

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-25	SP-25 (41-45')	41-45	DPT	—	dry, no sample
	SP-25 (51-55')	51-55		—	dry, no sample
	SP-25 (51-55') DUP	111-115		3/3/22 8:32	dry, no sample
	SP-25 (61-65')	61-65		—	dry, no sample
	SP-25 (71-75')	71-75		—	dry, no sample
	SP-25 (81-85')	81-85		—	dry, no sample
	SP-25 (91-95')	91-95		3-2-22 1754	
	SP-25 (101-105')	101-105		3/3/22 8:53	slow flow, milky, turbid
	SP-25 (111-115')	111-115		3/3/22 9:30	good flow, milky, turbid
SP-26	SP-26 (41-45')	41-45	DPT	02/23/2022 @ 10:00	limestone @ 45 ft
	SP-26 (51-55')	51-55		—	No recovery; try 49-53 ft BLS + same result. No sample collected.
	SP-26 (61-65')	61-65		02/23/22 @ 11:05	poor recovery
	SP-26 (71-75')	71-75		—	NO RECOVERY, TRY 84-93 FT BLS
	SP-26 (81-85')	81-85		—	SAME RESULT- NO SAMPLE COLLECTED
	SP-26 (91-95')	91-95		—	dry; no recovery. No sample collected
	SP-26 (101-105')	101-105		—	same as above
	SP-26 (111-115')	111-115		02/23/22 @ 1740	same as above

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-27	SP-27 (41-45')	41-45	DPT	—	DRY, NO RECOVERY, NO SAMPLE COLLECTED
	SP-27 (51-55')	51-55		—	SAME AS ABOVE
	SP-27 (51-55') DUP			—	same as above
	SP-27 (61-65')	61-65		—	SAME AS ABOVE
	SP-27 (71-75')	71-75		02/24/22 @ 12:20	POOR RECOVERY
	SP-27 (81-85')	81-85		02/28/22 @ 1037	Flagged for EQB
	SP-27 (91-95')	91-95		" 1104	
	SP-27 (101-105')	101-105		" 1131	
	SP-27 (111-115')	111-115		" 1200	
SP-28	SP-28 (61-65')	61-65	DPT		Refusal @ 44'
	SP-28 (71-75')	71-75			
	SP-28 (81-85')	81-85			
	SP-28 (91-95')	91-95			
SP-29	SP-29 (41-45')	41-45	DPT	02/22/2022 @ 1127	
	SP-29 (51-55')	51-55		" 1146 1156	
	SP-29 (61-65')	61-65		" 1210	
	SP-29 (61-65') DUP			" 1210	
	SP-29 (71-75')	71-75		" 1236	
	SP-29 (81-85')	81-85		" 1430	
	SP-29 (91-95')	91-95		" 1501	
	SP-29 (101-105')	101-105		" 1538	Refusal @ 101 ft BLS
	SP-29 (111-115')	111-115			

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-30	SP-30 (41-45')	41-45	DPT	02/21/2022 1503	
	SP-30 (51-55')	51-55		" 1530	
	SP-30 (61-65')	61-65		" 1558	
	SP-30 (61-65') DUP			" 1558	
	SP-30 (71-75')	71-75		" 1626	
	SP-30 (81-85')	81-85		" 1658	
	SP-30 (89-93')	89-93		" 1748	Refusal @ 93'
	SP-30 (101-105')	101-105		/	
	SP-30 (111-115')	111-115		/	
SP-31	SP-31 (41-45')	41-45	DPT		Dry, no sample
	SP-31 (51-55')	51-55		3/7/2022 0952	slow flow
	SP-31 (61-65')	61-65		3/7/2022 1015	white, turbid
	SP-31 (71-75')	71-75		" 1037	white, turbid
	SP-31 (71-75') DUP			" 1037	"
	SP-31 (81-85')	81-85		/	Screen overlaps with SP-31 (84-88')
	SP-31 (84-88')	84-88		3-4-22 1232	Refusal at 88'-
	SP-31 (101-105')	101-105		/	
	SP-31 (111-115')	111-115		/	

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-32	SP-32 (41-45')	41-45	DPT		
	SP-32 (51-55')	51-55			
	SP-32 (51-55') DUP				
	SP-32 (61-65')	61-65			
	SP-32 (71-75')	71-75			
	SP-32 (81-85')	81-85			
	SP-32 (91-95')	91-95			
	SP-32 (91-95') DUP				
	SP-32 (101-105')	101-105			
	SP-32 (111-115')	111-115			
SP-33	SP-33 (61-65')	61-65	DPT		
	SP-33 (61-65') DUP				
	SP-33 (71-75')	71-75			
	SP-33 (81-85')	81-85			
	SP-33 (91-95')	91-95			
	SP-33 (101-105')	101-105			
	SP-33 (111-115')	111-115			

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-34	SP-34 (41-45')	41-45	DPT	—	Dry, no Sample
	SP-34 (41-45') DUP 61-65'	61-65		3/3/22 1620	Dry, no Sample
	SP-34 (51-55')	51-55		—	Dry, no Sample
	SP-34 (61-65')	61-65		3/3/22 1616	very hard drilling
	SP-34 (71-75')	71-75		3/3/22 1658	very turbid
	SP-34 (81-85')	81-85		3/3/22 1728	very turbid
	SP-34 (91-95')	91-95		3/3/22 1751	" "
	SP-34 (101-105')	101-105		3/4/22 824	" "
	SP-34 (111-115')	111-115 F		3/4/22 854	"
SP-35	SP-35 (41-45')	41-45	DPT	—	dry, no sample
	SP-35 (51-55')	51-55		—	dry, no sample
	SP-35 (51-55') DUP			—	dry, no sample
	SP-35 (61-65')	61-65			refusal @ ~63ft
	SP-35 (71-75')	71-75			
	SP-35 (81-85')	81-85			
	SP-35 (91-95')	91-95			
	SP-35 (101-105')	101-105			
	SP-35 (111-115')	111-115			
C-T (100) SP-32 (100) SP-32	TBD	61-65	DPT		
	TBD	71-75			
	TBD	81-85			
	TBD	91-95			

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
C-2*	TBD	41-45	DPT		
	TBD DUP				
	TBD	51-55			
	TBD	61-65			
	TBD	71-75			
	TBD	81-85			
	TBD	91-95			
C-3*	TBD	61-65	DPT		
	TBD DUP				
	TBD	71-75			
	TBD	81-85			
	TBD	91-95			
C-4*	TBD	41-45	DPT		
	TBD	51-55			
	TBD	61-65			
	TBD	71-75			
	TBD DUP				
	TBD	81-85			
	TBD	91-95			
	TBD	101-105			
	TBD	111-115			

TABLE 1: SAMPLING WORK PLAN TABLE
Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
SP-37 EU CS*	TBD	41-45	DPT	—	Dry, no sample
	TBD	51-55		—	Dry, no sample
	TBD	61-65		—	Dry, no sample
	TBD	71-75		—	Dry, no sample
	TBD SP-37 (81-85')	81-85		3/17/22 1045	
	TBD SP-37 (88-92')	88-92		3/17/22 1140	
	TBD	101-105		—	Refusal at 92' BLS
	TBD	111-115		—	—
C-6*	TBD	41-45	DPT		
	TBD DUP				
	TBD	51-55			
	TBD	61-65			
	TBD	71-75			
	TBD	81-85			
	TBD	91-95			
	TBD	101-105			
	TBD	111-115			
SP-36 EU CS*	SP-36 CS* (61-65')	61-65	DPT	3/16/22 1125	
	SP-36 CS* (71-75')	71-75	DPT	3/16/22 1155	
	SP-36 CS* (81-85')	81-85	DPT	3/16/22 1425	
	SP-36 CS* (88-92')	88-92	DPT	3/16/22 1510	Refusal at 92' BLS

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
<u>GLW Sampling</u> DPT Soil Sampling	EQB-79	DPT Soil Samples <u>GLW Sampling</u>		3/15/22 1720	Sample collected before: SP-17 (71-75') Sample collected after: 2-7 (61-75') Bottle number: 002128
DPT Groundwater Sampling	EQB-80	DPT Groundwater Sampler		02/22/2022 @ 1025	Sample collected before: SP-30 (88-93') Sample collected after: SP-29 (41-45') Bottle number: 000781
	EQB-81			02/28/2022 @ 1335	Sample collected before: SP-27 (81-85') Sample collected after: SP-28 (61-65') Bottle number: 000781
	EQB-82			3/2/2022 @ 1245	Sample collected before: SP-22 (111-115') Sample collected after: SP-25 (41-45') Bottle number: 004445
	EQB-83			3/4/22 @ 1011	Sample collected before: SP-34 (111-115') Sample collected after: SP-31 (111-115') (84'-88') Bottle number: 004445
	EQB-84			3/9/2022 @ 0835	Sample collected before: SP-16 (51-55') Sample collected after: SP-21 (61-65') Bottle number: 004445 + 004443 (P.D. # 00091905)
	EQB-85			3/10/2022 @ 1050	Sample collected before: SP-18 (61-65') Sample collected after: Bottle number: 004443
	EQB-86			3/16/22 1650	Sample collected before: 2-7 (61-65') Sample collected after: Bottle number: 002128
	EQB-87				Sample collected before: Sample collected after: Bottle number:
	EQB-88				Sample collected before: Sample collected after: Bottle number:
	EQB-89				Sample collected before: Sample collected after: Bottle number:
	EQB-90				Sample collected before: Sample collected after: Bottle number:
	EQB-91				Sample collected before: Sample collected after: Bottle number:
	EQB-92				Sample collected before: Sample collected after: Bottle number:
	EQB-93				Sample collected before: Sample collected after: Bottle number:
	EQB-94				Sample collected before: Sample collected after: Bottle number:
	EQB-95				Sample collected before: Sample collected after: Bottle number:

TABLE 1: SAMPLING WORK PLAN TABLE

Florida State Fire College

Location ID	Sample ID	Depth Interval (ft BLS)	Sample Method	Date and Time	Comments
Contingency DPT Groundwater Sampling	EQB-96	DPT Groundwater Sampler			Sample collected before: Sample collected after: Bottle number:
	EQB-97				Sample collected before: Sample collected after: Bottle number:
	EQB-98				Sample collected before: Sample collected after: Bottle number:
	EQB-99				Sample collected before: Sample collected after: Bottle number:
Monitoring Well Sampling	FRB-33	N/A			Sample location and field activity:
Soil Sampling Decontamination	FRB-34				Sample location and field activity:
DPT Groundwater Sampling	FRB-35			3-2-22 1057	SP-22 during Sampling
Extra	FRB-36			3/15/22 0825	SP-19 / During rain delay.
	FRB-37				Sample location and field activity:

FIELD DRUM INVENTORY TRACKING LOG

Project Name: Florida State Fire College

Drum Number	Generation Date	Content % Full	Contents (soil, development water, purge water, etc.)	Source Location (Well #, Boring #, etc.)
1	02/21/2022	100	decon + purge water	DEPMW-2 & -17. Mob. decon; SP-30, SP-29
2	"	30	soil	DPT
3	"	100	purge + decon water	SP-30, SP-29
4	02/22/2022	100	"	DEPMW-6, -9, -15; SP-29
5	"	100	"	SP-29, soils(HA)
6	02/24/2022	100	"	SP-26, SP-29, soils(HA)
7	"	100	"	" , SP-27, soils(HA)
8	02/28/2022	100	"	SP-27, SP-28, SP-24 & Decon
9	3/1/2022	100	purge & decon water	SP-24, SP-22, SP-25 & Decon
10	3/2/2022	100	purge & decon water	SP 25, SP-34, & Decon
11	3/4/22-3/7/22	100	purge & decon water	Decon, SP-31, SP-23
12	3/8/2022-3/9/2022	100	Purge & decon water	SP-16, SP-21, Decon,
13	3/9/2022-	100	Purge & decon water	SP-18, Decon, SP-21
14	3/10/2022	100	Purge & decon water	SP-18, Decon

IDW Inventory - Geosyntec Consultants

FIELD DRUM INVENTORY TRACKING LOG

Project Name: Florida State Fire College

[illegible]

APPENDIX E

Laboratory Analytical Reports

Chemical Analysis Report

SIS-2022-02-25-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **FSFC Soil and GW Sampling February 21 2022**

Request ID: **RQ-2022-02-21-67**

Customer: **SIS**

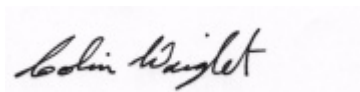
Project ID: **FC-MARION**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: David Meyers

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 14-MAR-2022 13:53

A handwritten signature in black ink, appearing to read "Colin Wright", is positioned on a light gray rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 17:11

Field ID: DEPMW-19 (45-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308408	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.8		ng/L	P410184	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410184	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410184	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410184	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410184	
		Perfluorohexanesulfonic acid (PFHxS)**	43		ng/L	P410184	
		Perfluorohexanoic acid (PFHxA)**	3.7	I	ng/L	P410184	
		Perfluorononanoic acid (PFNA)**	2.9	I	ng/L	P410184	
		Perfluorooctanoic acid (PFOA)**	2.0	I	ng/L	P410184	
		Perfluorooctanesulfonic acid (PFOS)**	31		ng/L	P410184	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410184	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410184	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410184	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410184	
		Perfluoropentanesulfonic acid (PFPeS)**	7.6		ng/L	P410184	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410184	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410184	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410184	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410184	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.88	I	ng/L	P410184	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410184	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410184	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410184	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410184	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410184	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410184	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410184	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410184	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410184	

Field ID: DEPMW-19 (45-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308408	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410184	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410184	

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 17:35

Field ID: DEPMW-2 (35-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308409	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	150		ng/L	P410184	
		Perfluorobutanoic acid (PFBA)**	23		ng/L	P410184	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410184	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410184	
		Perfluoroheptanoic acid (PFHpA)**	17		ng/L	P410184	
		Perfluorohexanesulfonic acid (PFHxS)**	580		ng/L	P410184	
		Perfluorohexanoic acid (PFHxA)**	61		ng/L	P410184	
		Perfluorononanoic acid (PFNA)**	7.9	I	ng/L	P410184	
		Perfluorooctanoic acid (PFOA)**	47		ng/L	P410184	
		Perfluorooctanesulfonic acid (PFOS)**	130		ng/L	P410184	
		Perfluoropentanoic acid (PFPeA)**	37		ng/L	P410184	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410184	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410184	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410184	
		Perfluoropentanesulfonic acid (PFPeS)**	160		ng/L	P410184	
		Perfluoroheptanesulfonic acid (PFHpS)**	8.6		ng/L	P410184	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410184	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410184	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410184	
		Perfluoro-1-butane sulfonamide (FBSA)**	150		ng/L	P410184	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	130		ng/L	P410184	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410184	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410184	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410184	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410184	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410184	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410184	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410184	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410184	

Field ID: DEPMW-2 (35-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308409	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	43		ng/L	P410184	
		Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)**	8.0	U	ng/L	P410184	

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 17:35

Field ID: DEPMW-2 (35-55') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308410	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	160		ng/L	P410184	
		Perfluorobutanoic acid (PFBA)**	23		ng/L	P410184	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410184	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410184	
		Perfluoroheptanoic acid (PFHpA)**	18		ng/L	P410184	
		Perfluorohexanesulfonic acid (PFHxS)**	580		ng/L	P410184	
		Perfluorohexanoic acid (PFHxA)**	56		ng/L	P410184	
		Perfluorononanoic acid (PFNA)**	6.8	I	ng/L	P410184	
		Perfluorooctanoic acid (PFOA)**	49		ng/L	P410184	
		Perfluorooctanesulfonic acid (PFOS)**	140		ng/L	P410184	
		Perfluoropentanoic acid (PFPeA)**	41		ng/L	P410184	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410184	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410184	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410184	
		Perfluoropentanesulfonic acid (PFPeS)**	170		ng/L	P410184	
		Perfluoroheptanesulfonic acid (PFHpS)**	8.4		ng/L	P410184	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410184	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410184	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410184	
		Perfluoro-1-butane sulfonamide (FBSA)**	170		ng/L	P410184	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	150		ng/L	P410184	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410184	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410184	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410184	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410184	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410184	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410184	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410184	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410184	

Field ID: DEPMW-2 (35-55') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308410	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	40		ng/L	P410184	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410184	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 09:00

Field ID: EQB-71

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308411	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	12		ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.56	I	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.1	I	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410695	

Field ID: EQB-71

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308411	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. Results confirmed in re-extraction.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 10:13

Field ID: DEPMW-15 (35-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308412	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	34		ng/L	P410184	
		Perfluorobutanoic acid (PFBA)**	290		ng/L	P410184	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410184	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410184	
		Perfluoroheptanoic acid (PFHpA)**	360		ng/L	P410184	
		Perfluorohexanesulfonic acid (PFHxS)**	210		ng/L	P410184	
		Perfluorohexanoic acid (PFHxA)**	400		ng/L	P410184	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410184	
		Perfluorooctanoic acid (PFOA)**	33		ng/L	P410184	
		Perfluorooctanesulfonic acid (PFOS)**	9.2		ng/L	P410184	
		Perfluoropentanoic acid (PFPeA)**	740		ng/L	P410184	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410184	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410184	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410184	
		Perfluoropentanesulfonic acid (PFPeS)**	28		ng/L	P410184	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410184	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410184	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410184	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410184	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410184	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410184	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410184	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410184	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410184	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410184	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410184	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410184	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410184	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410184	

Field ID: DEPMW-15 (35-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308412	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	11	I	ng/L	P410184	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410184	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:44

Field ID: DEPMW-6 (100-120')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308413	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.59	I	ng/L	P410184	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410184	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410184	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410184	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410184	
		Perfluorohexanesulfonic acid (PFHxS)**	1.4	I	ng/L	P410184	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410184	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410184	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410184	
		Perfluorooctanesulfonic acid (PFOS)**	8.1		ng/L	P410184	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410184	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410184	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410184	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410184	
		Perfluoropentanesulfonic acid (PFPeS)**	0.58	I	ng/L	P410184	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410184	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410184	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410184	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410184	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410184	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410184	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410184	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410184	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410184	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410184	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410184	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410184	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410184	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410184	

Field ID: DEPMW-6 (100-120')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308413	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410184	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410184	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 12:46

Field ID: DEPMW-9 (40-60')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308414	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	25		ng/L	P410184	
		Perfluorobutanoic acid (PFBA)**	7.8	I	ng/L	P410184	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410184	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410184	
		Perfluoroheptanoic acid (PFHpA)**	15		ng/L	P410184	
		Perfluorohexanesulfonic acid (PFHxS)**	5.2		ng/L	P410184	
		Perfluorohexanoic acid (PFHxA)**	16		ng/L	P410184	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410184	
		Perfluorooctanoic acid (PFOA)**	10		ng/L	P410184	
		Perfluorooctanesulfonic acid (PFOS)**	3.5	I	ng/L	P410184	
		Perfluoropentanoic acid (PFPeA)**	22		ng/L	P410184	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410184	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410184	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410184	
		Perfluoropentanesulfonic acid (PFPeS)**	0.80	I	ng/L	P410184	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410184	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410184	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410184	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410184	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410184	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410184	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410184	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410184	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410184	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410184	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410184	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410184	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410184	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410184	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410184	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410184	

Field ID: DEPMW-9 (40-60')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308414	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410184	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410184	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:40

Field ID: FRB-34

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308415	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: FRB-34

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308415	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 10:00

Field ID: FRB-33

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308416	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: FRB-33

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308416	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:45

Field ID: EQB-72

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308417	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: EQB-72

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308417	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 15:45

Field ID: EQB-73

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308418	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.41	U	ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	0.81	U	ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	0.41	U	ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.81	U	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.81	U	ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.81	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P410386	

Field ID: EQB-73

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308418	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 09:30

Field ID: EQB-74

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308419	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: EQB-74

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308419	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 14:30

Field ID: EQB-75

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308420	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: EQB-75

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308420	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 10:50

Field ID: SB-289 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308434	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.46	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.46	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.12	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.43	I	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.28	I	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.46	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P410387	

Field ID: SB-289 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308434	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.92	U	ug/Kg	P410387	
2308474	SM 2540 G (20th)	% Solid	91.2	A	%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 10:55

Field ID: SB-289 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308435	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-289 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308435	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.87	U	ug/Kg	P410387	
2308475	SM 2540 G (20th)	% Solid	93.8		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:00

Field ID: SB-289 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308436	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-289 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308436	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P410387	
2308476	SM 2540 G (20th)	% Solid	93.8		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:15

Field ID: SB-290 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308437	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	1.2	I	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.25	I	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.47	I	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.31	I	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.68	I	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.32	I	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	1.0		ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410387	

Field ID: SB-290 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308437	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P410387	
2308477	SM 2540 G (20th)	% Solid	95.3		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:20

Field ID: SB-290 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308438	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	U	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.15	I	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410387	

Field ID: SB-290 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308438	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P410387	
2308478	SM 2540 G (20th)	% Solid	95.8		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:25

Field ID: SB-290 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308439	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-290 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308439	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.89	U	ug/Kg	P410387	
2308479	SM 2540 G (20th)	% Solid	92.7		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:45

Field ID: SB-291 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308440	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.29	I	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	3.1		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.42	I	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	I	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-291 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308440	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P410387	
2308480	SM 2540 G (20th)	% Solid	94.0		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:50

Field ID: SB-291 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308441	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.41	I	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410387	

Field ID: SB-291 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308441	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P410387	
2308481	SM 2540 G (20th)	% Solid	96.9		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:55

Field ID: SB-291 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308442	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.43	I	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410387	

Field ID: SB-291 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308442	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P410387	
2308482	SM 2540 G (20th)	% Solid	98.0		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 13:15

Field ID: SB-292 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308443	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.26	I	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	19		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	1.0		ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.38	I	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.0		ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	I	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-292 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308443	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.90	U	ug/Kg	P410387	
2308483	SM 2540 G (20th)	% Solid	92.9		%	P410553	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 13:20

Field ID: SB-292 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308444	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	I	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	5.8		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.36	I	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410387	

Field ID: SB-292 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308444	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P410387	
2308484	SM 2540 G (20th)	% Solid	96.5	A	%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 13:25

Field ID: SB-292 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308445	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	2.6		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410387	

Field ID: SB-292 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308445	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P410387	
2308485	SM 2540 G (20th)	% Solid	97.2		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 13:35

Field ID: SB-293 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308446	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.55		ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	28		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.21	I	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	I	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-293 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308446	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.89	U	ug/Kg	P410387	
2308486	SM 2540 G (20th)	% Solid	93.8		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 13:40

Field ID: SB-293 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308447	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	I	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.47	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.47	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.75		ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	20		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.23	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.47	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P410387	

Field ID: SB-293 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308447	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.93	U	ug/Kg	P410387	
2308487	SM 2540 G (20th)	% Solid	90.5		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 13:45

Field ID: SB-293 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308448	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	3.5		ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	9.3		ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	2.4		ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	12		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.39	I	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	3.3		ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.21	I	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-293 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308448	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.76	I	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.89	U	ug/Kg	P410387	
2308488	SM 2540 G (20th)	% Solid	93.7		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:00

Field ID: SB-294 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308449	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.14	I	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	1.7		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-294 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308449	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.90	U	ug/Kg	P410387	
2308489	SM 2540 G (20th)	% Solid	93.0		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:05

Field ID: SB-294 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308450	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.46	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.46	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.12	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	1.2		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.23	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.46	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P410387	

Field ID: SB-294 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308450	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.92	U	ug/Kg	P410387	
2308490	SM 2540 G (20th)	% Solid	91.2		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:10

Field ID: SB-294 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308451	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.53	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.53	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.27	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.27	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.13	U	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.27	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.27	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.40	I	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.27	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.27	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.27	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.27	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.27	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.27	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.27	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.27	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.27	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.53	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.27	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.27	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.27	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.27	U	ug/Kg	P410387	

Field ID: SB-294 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308451	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.27	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P410387	
2308491	SM 2540 G (20th)	% Solid	82.9		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:20

Field ID: SB-295 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308452	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.48	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.48	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.24	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.24	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.18	I	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.24	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.24	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	2.5		ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.24	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.24	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.24	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.24	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.24	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.24	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.24	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.24	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.24	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.48	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.24	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.24	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.24	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.24	U	ug/Kg	P410387	

Field ID: SB-295 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308452	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.24	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	0.96	U	ug/Kg	P410387	
2308492	SM 2540 G (20th)	% Solid	88.5		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:25

Field ID: SB-295 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308453	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410387	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410387	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410387	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410387	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410387	
		Perfluorohexanesulfonic acid (PFHxS)**	0.28	I	ug/Kg	P410387	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410387	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410387	
		Perfluorooctanesulfonic acid (PFOS)**	0.72	I	ug/Kg	P410387	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410387	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410387	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410387	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410387	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410387	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410387	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410387	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410387	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410387	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410387	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410387	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410387	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410387	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410387	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410387	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410387	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410387	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410387	

Field ID: SB-295 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308453	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410387	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P410387	
2308493	SM 2540 G (20th)	% Solid	93.9		%	P410554	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:30

Field ID: SB-295 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308454	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.50	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.50	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.25	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.25	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.13	U	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.25	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.25	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	0.25	U	ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.25	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.25	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.25	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.25	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.25	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.25	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.25	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.25	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.0	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.25	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.50	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.25	U	ug/Kg	P410388	

Field ID: SB-295 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308454	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.25	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410388	
2308494	SM 2540 G (20th)	% Solid	85.8	A	%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:50

Field ID: SB-296 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308455	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	1.8		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.38	I	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410388	

Field ID: SB-296 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308455	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P410388	
2308495	SM 2540 G (20th)	% Solid	95.2		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:55

Field ID: SB-296 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308456	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	0.28	I	ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-296 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308456	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P410388	
2308496	SM 2540 G (20th)	% Solid	96.3		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 15:00

Field ID: SB-296 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308457	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.10	U	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-296 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308457	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P410388	
2308497	SM 2540 G (20th)	% Solid	97.5		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 15:30

Field ID: SB-297 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308458	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.52	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.52	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.39	I	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.34	I	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.26	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	4.6		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.64	I	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.26	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.52	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410388	

Field ID: SB-297 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308458	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.26	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410388	
2308498	SM 2540 G (20th)	% Solid	84.5		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 15:35

Field ID: SB-297 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308459	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	0.60	I	ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-297 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308459	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P410388	
2308499	SM 2540 G (20th)	% Solid	96.0		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 15:40

Field ID: SB-297 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308460	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	0.35	I	ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410388	

Field ID: SB-297 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308460	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.87	U	ug/Kg	P410388	
2308500	SM 2540 G (20th)	% Solid	94.9		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 16:20

Field ID: SB-298 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308461	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.12	I	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	1.7		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-298 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308461	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P410388	
2308501	SM 2540 G (20th)	% Solid	96.8		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 16:25

Field ID: SB-298 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308462	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.14	I	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	I	ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-298 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308462	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P410388	
2308502	SM 2540 G (20th)	% Solid	96.6		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 16:30

Field ID: SB-298 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308463	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	I	ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410388	

Field ID: SB-298 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308463	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P410388	
2308503	SM 2540 G (20th)	% Solid	94.1		%	P410556	

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 15:03

Field ID: SP-30 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308524	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	150		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	59		ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	49		ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	1.9E+03		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	170		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	11		ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	110		ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.3E+03		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	96		ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	240		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	41		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	330		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	950		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	7.8		ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: SP-30 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308524	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	73		ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 15:30

Field ID: SP-30 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308525	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	150		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	65		ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	66		ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	1.7E+03		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	190		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	13		ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	140		ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	3.8E+03		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	140		ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	250		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	49		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	430		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.1E+03		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	11		ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	37	I	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: SP-30 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308525	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	71		ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 15:58

Field ID: SP-30 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308526	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	170		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	67		ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	5.8	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.9	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	61		ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	1.9E+03		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	220		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	13		ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	160		ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	3.8E+03		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	140		ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.9	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.9	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.9	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	260		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	47		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.58	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.58	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.58	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	580		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.2E+03		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	12		ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.9	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.9	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.9	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	24	I	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.9	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.2	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.2	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.8	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	5.8	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.8	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.8	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.8	U	ng/L	P410386	

Field ID: SP-30 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308526	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	79		ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	12	U	ng/L	P410386	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 15:58

Field ID: SP-30 (61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308527	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	150		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	65		ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	5.8	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.9	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	56		ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	1.9E+03		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	200		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	12		ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	140		ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	3.6E+03		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	120		ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.9	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.9	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.9	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	220		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	43		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.58	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.58	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.58	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	530		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.3E+03		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	11		ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.9	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.9	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.9	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	24	I	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.9	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.2	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.2	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.8	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	5.8	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.8	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.8	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.8	U	ng/L	P410386	

Field ID: SP-30 (61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308527	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	68		ng/L	P410386	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	12	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 16:26

Field ID: SP-30 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308528	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	200		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	84		ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.8	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.4	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	86		ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	2.6E+03		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	320		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	9.5		ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	180		ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	5.2E+03		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	190		ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.4	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.4	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.4	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	360		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	88		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.48	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.48	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.48	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	940		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.1E+03		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	3.3		ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.4	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.4	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.4	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	180		ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.4	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.95	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.95	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.8	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.8	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.8	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.8	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.8	U	ng/L	P410386	

Field ID: SP-30 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308528	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	120		ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.5	U	ng/L	P410386	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 16:58

Field ID: SP-30 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308529	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	440		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	140		ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	87		ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	3.3E+03		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	460		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.6	I	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	170		ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	3.9E+03		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	160		ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	400		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	110		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.7E+03		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.8E+03		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.0	I	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.87	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.87	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.3	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P410386	

Field ID: SP-30 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308529	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	310		ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.7	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/21/2022 17:58

Field ID: SP-30 (89-93')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308530	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	170		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	60		ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	6.6	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	3.3	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	32		ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6E+03		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	180		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	4.3	I	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	87		ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	1.9E+03		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	89		ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	3.3	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	3.3	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	3.3	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	210		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	41		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.66	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.66	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.66	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	670		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.0E+03		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	2.4	I	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	3.3	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	3.3	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	3.3	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	26	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	3.3	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.3	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.3	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	6.6	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	6.6	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	6.6	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	6.6	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	6.6	U	ng/L	P410386	

Field ID: SP-30 (89-93')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308530	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	100		ng/L	P410386	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	13	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 10:25

Field ID: EQB-80

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308531	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: EQB-80

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308531	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:27

Field ID: SP-29 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308532	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	26		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	10	I	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	240		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	17		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	2.2	I	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	180		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	5.0	I	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	28		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.8	I	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	14		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.9		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: SP-29 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308532	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.3	I	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 11:46

Field ID: SP-29 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308533	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	38		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	10	I	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	310		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	24		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	3.9	I	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	200		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	7.6	I	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.1	I	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	43		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.1	I	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	18		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	18		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: SP-29 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308533	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	11	I	ng/L	P410386	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 12:10

Field ID: SP-29 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308534	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	48		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	10	I	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	410		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	20		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	6.6	I	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	210		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	5.4	I	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	58		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.6		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	32		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.8	I	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.44	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.88	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.88	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.4	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P410386	

Field ID: SP-29 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308534	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	18		ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.8	U	ng/L	P410386	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 12:10

Field ID: SP-29 (61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308535	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	47		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	9.9	I	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	420		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	21		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	6.8	I	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	220		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	5.9	I	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	58		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.7		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	32		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.6	I	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.44	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.88	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.88	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.4	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P410386	

Field ID: SP-29 (61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308535	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	17	I	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.8	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 12:36

Field ID: SP-29 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308536	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	41		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	8.3	I	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	400		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	6.0	I	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	210		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	3.9	I	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	45		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.1	I	ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	21		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410386	

Field ID: SP-29 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308536	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	9.2	I	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410386	

Ref. Method and Comment:
DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 14:30

Field ID: SP-29 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308537	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	43		ng/L	P410386	
		Perfluorobutanoic acid (PFBA)**	10	I	ng/L	P410386	
		Perfluorodecanoic acid (PFDA)**	5.3	U	ng/L	P410386	
		Perfluorododecanoic acid (PFDoA)**	2.6	U	ng/L	P410386	
		Perfluoroheptanoic acid (PFHpA)**	2.6	U	ng/L	P410386	
		Perfluorohexanesulfonic acid (PFHxS)**	410		ng/L	P410386	
		Perfluorohexanoic acid (PFHxA)**	17		ng/L	P410386	
		Perfluorononanoic acid (PFNA)**	2.6	U	ng/L	P410386	
		Perfluorooctanoic acid (PFOA)**	8.3	I	ng/L	P410386	
		Perfluorooctanesulfonic acid (PFOS)**	220		ng/L	P410386	
		Perfluoropentanoic acid (PFPeA)**	4.4	I	ng/L	P410386	
		Perfluorotetradecanoic acid (PFTeA)**	2.6	U	ng/L	P410386	
		Perfluorotridecanoic acid (PFTriA)**	2.6	U	ng/L	P410386	
		Perfluoroundecanoic acid (PFUnA)**	2.6	U	ng/L	P410386	
		Perfluoropentanesulfonic acid (PFPeS)**	52		ng/L	P410386	
		Perfluoroheptanesulfonic acid (PFHpS)**	4.2		ng/L	P410386	
		Perfluorononanesulfonic acid (PFNS)**	0.53	U	ng/L	P410386	
		Perfluorodecanesulfonic acid (PFDS)**	0.53	U	ng/L	P410386	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.53	U	ng/L	P410386	
		Perfluoro-1-butane sulfonamide (FBSA)**	21		ng/L	P410386	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	19		ng/L	P410386	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.53	U	ng/L	P410386	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.6	U	ng/L	P410386	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.6	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.6	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	21	U	ng/L	P410386	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.6	U	ng/L	P410386	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.1	U	ng/L	P410386	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.1	U	ng/L	P410386	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.3	U	ng/L	P410386	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	5.3	U	ng/L	P410386	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.3	U	ng/L	P410386	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.3	U	ng/L	P410386	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.3	U	ng/L	P410386	

Field ID: SP-29 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308537	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	9.9	I	ng/L	P410386	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	11	U	ng/L	P410386	

Ref. Method and Comment:

DEP SOP: LC-001-3: Insufficient sample to perform duplicate matrix spikes. MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 15:01

Field ID: SP-29 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308538	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	27		ng/L	P410582	
		Perfluorobutanoic acid (PFBA)**	7.3	I	ng/L	P410582	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410582	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410582	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410582	
		Perfluorohexanesulfonic acid (PFHxS)**	400		ng/L	P410582	
		Perfluorohexanoic acid (PFHxA)**	13		ng/L	P410582	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410582	
		Perfluorooctanoic acid (PFOA)**	5.4	I	ng/L	P410582	
		Perfluorooctanesulfonic acid (PFOS)**	220		ng/L	P410582	
		Perfluoropentanoic acid (PFPeA)**	3.3	I	ng/L	P410582	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410582	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410582	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410582	
		Perfluoropentanesulfonic acid (PFPeS)**	36		ng/L	P410582	
		Perfluoroheptanesulfonic acid (PFHpS)**	3.4		ng/L	P410582	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410582	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410582	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410582	
		Perfluoro-1-butane sulfonamide (FBSA)**	16		ng/L	P410582	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410582	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410582	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410582	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410582	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410582	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410582	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410582	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410582	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410582	

Field ID: SP-29 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308538	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410582	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P410582	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 08:45

Field ID: SB-307 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308554	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.57		ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	2.4		ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.63	I	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.60	I	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	2.7		ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	5.9		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	2.7		ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	1.8		ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	49		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	4.2		ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	1.2		ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	2.4		ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	3.2		ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.49	I	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.26	I	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.50	I	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	3.0		ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.51	I	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.5		ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	15		ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	1.5		ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.26	I	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.52	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410388	

Field ID: SB-307 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308554	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.26	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410388	
2308575	SM 2540 G (20th)	% Solid	84.4	A	%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 08:50

Field ID: SB-307 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308555	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.22	I	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.50	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.50	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.25	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.25	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	3.5		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.25	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.25	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	33		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.25	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.25	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.25	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.25	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.25	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.22	I	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.23	I	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.30	I	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	6.5		ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	11		ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.25	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.25	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.25	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.0	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.25	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.50	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.25	U	ug/Kg	P410388	

Field ID: SB-307 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308555	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.25	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410388	
2308576	SM 2540 G (20th)	% Solid	85.9		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 08:55

Field ID: SB-307 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308556	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.93		ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.51	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.51	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.25	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.25	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	5.8		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.84	I	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.25	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	41		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.32	I	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.25	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.25	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.25	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.35	I	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.61		ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.57		ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	6.1		ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	7.7		ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.25	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.25	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.25	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.0	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.25	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.51	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.25	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.25	U	ug/Kg	P410388	

Field ID: SB-307 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308556	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.45	I	ug/Kg	P410388	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410388	
2308577	SM 2540 G (20th)	% Solid	85.2		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 09:05

Field ID: SB-307 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308557	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.1		ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.48	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.48	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.24	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.50	I	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	13		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	1.6		ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.24	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	41		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	1.4		ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.24	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.24	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.24	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.56	I	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	1.0		ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.18	I	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.54		ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	6.8		ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	9.8		ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.24	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.24	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.24	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.24	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.48	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.24	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.24	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.24	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.24	U	ug/Kg	P410388	

Field ID: SB-307 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308557	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.65	I	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.97	U	ug/Kg	P410388	
2308578	SM 2540 G (20th)	% Solid	88.0		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 09:15

Field ID: SB-307 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308558	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.73		ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.52	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.52	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.26	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	4.8		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.72	I	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	14		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.26	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.51	I	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.52	I	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.58		ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.1		ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.9		ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.48	I	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.52	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410388	

Field ID: SB-307 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308558	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.44	I	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410388	
2308579	SM 2540 G (20th)	% Solid	84.1		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 09:35

Field ID: EQB-76

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308572	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410582	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410582	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410582	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410582	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410582	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410582	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410582	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410582	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410582	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410582	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410582	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410582	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410582	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410582	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410582	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410582	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410582	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410582	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410582	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410582	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410582	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410582	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410582	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410582	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410582	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410582	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410582	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410582	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410582	

Field ID: EQB-76

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308572	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410582	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410582	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 09:50

Field ID: SB-306 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308559	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.47		ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	2.3		ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	1.5		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.23	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.41	I	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	33		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.48	I	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.48	I	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.23	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.32	I	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.24	I	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.17	I	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.35	I	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.20	I	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.2		ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P410388	

Field ID: SB-306 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308559	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.91	U	ug/Kg	P410388	
2308581	SM 2540 G (20th)	% Solid	92.2		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 09:55

Field ID: SB-306 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308560	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	I	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.74		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	27		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.35	I	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.19	I	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.35	I	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-306 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308560	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P410388	
2308582	SM 2540 G (20th)	% Solid	95.9		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 10:00

Field ID: SB-306 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308561	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.41	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.41	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	13		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.17	I	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.16	I	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.6	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.41	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-306 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308561	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.82	U	ug/Kg	P410388	
2308583	SM 2540 G (20th)	% Solid	97.7		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 10:10

Field ID: SB-306 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308562	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	0.61		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	27		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.18	I	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410388	

Field ID: SB-306 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308562	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410388	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P410388	
2308584	SM 2540 G (20th)	% Solid	96.6		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 10:20

Field ID: SB-306 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308563	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	I	ug/Kg	P410388	
		Perfluorobutanoic acid (PFBA)**	0.52	U	ug/Kg	P410388	
		Perfluorodecanoic acid (PFDA)**	0.52	U	ug/Kg	P410388	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P410388	
		Perfluoroheptanoic acid (PFHpA)**	0.26	U	ug/Kg	P410388	
		Perfluorohexanesulfonic acid (PFHxS)**	1.3		ug/Kg	P410388	
		Perfluorohexanoic acid (PFHxA)**	0.26	U	ug/Kg	P410388	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P410388	
		Perfluorooctanesulfonic acid (PFOS)**	34		ug/Kg	P410388	
		Perfluorooctanoic acid (PFOA)**	0.26	U	ug/Kg	P410388	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410388	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P410388	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P410388	
		Perfluoropentanoic acid (PFPeA)**	0.26	U	ug/Kg	P410388	
		Perfluoropentanesulfonic acid (PFPeS)**	0.25	I	ug/Kg	P410388	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410388	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410388	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410388	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P410388	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P410388	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410388	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410388	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P410388	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410388	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410388	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.52	U	ug/Kg	P410388	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410388	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410388	

Field ID: SB-306 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308563	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.62	I	ug/Kg	P410388	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410388	
2308585	SM 2540 G (20th)	% Solid	84.9		%	P410557	

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 10:25

Field ID: EQB-77

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308573	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410582	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410582	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410582	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410582	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410582	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410582	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410582	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410582	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410582	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410582	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410582	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410582	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410582	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410582	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410582	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410582	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410582	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410582	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410582	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410582	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410582	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410582	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410582	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410582	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410582	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410582	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410582	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410582	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410582	

Field ID: EQB-77

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308573	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410582	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410582	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 10:40

Field ID: SB-305 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308564	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.13	I	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	8.1		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.21	UJ	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410389	

Field ID: SB-305 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308564	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P410389	
2308587	SM 2540 G (20th)	% Solid	95.6	A	%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 10:45

Field ID: SB-305 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308565	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.16	I	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	3.3		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410389	

Field ID: SB-305 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308565	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P410389	
2308588	SM 2540 G (20th)	% Solid	96.5		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 10:50

Field ID: SB-305 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308566	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.10	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.50		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	4.3		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.10	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.10	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.10	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.10	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.10	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.10	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.10	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.10	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.10	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.10	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410389	

Field ID: SB-305 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308566	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.83	U	ug/Kg	P410389	
2308589	SM 2540 G (20th)	% Solid	97.2		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 11:00

Field ID: SB-305 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308567	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.35	I	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	1.7		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410389	

Field ID: SB-305 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308567	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P410389	
2308590	SM 2540 G (20th)	% Solid	95.3		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 11:10

Field ID: SB-305 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308568	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.48	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.48	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.24	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.24	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.25	I	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.24	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.24	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.85	I	ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.24	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.24	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.24	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.24	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.24	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.24	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.24	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.24	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.24	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.48	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.24	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.24	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.24	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.24	U	ug/Kg	P410389	

Field ID: SB-305 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308568	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.24	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.96	U	ug/Kg	P410389	
2308591	SM 2540 G (20th)	% Solid	88.5		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 11:25

Field ID: SB-309 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308569	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.54	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.54	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.27	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.27	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.53	I	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.28	I	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.27	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	6.1		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.27	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.27	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.27	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.27	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.27	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.27	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.27	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.27	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.2	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.27	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.54	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.27	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.27	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.27	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.27	U	ug/Kg	P410389	

Field ID: SB-309 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308569	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.27	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P410389	
2308592	SM 2540 G (20th)	% Solid	82.5		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 11:30

Field ID: SB-309 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308570	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.51	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.51	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.26	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	1.1		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.26	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	16		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.26	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.26	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.24	I	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.25	I	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.50	I	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.38	I	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.0	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.51	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410389	

Field ID: SB-309 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308570	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.26	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410389	
2308593	SM 2540 G (20th)	% Solid	84.7		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 11:40

Field ID: SB-309 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308571	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.52	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.52	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.26	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	1.5		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.26	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	13		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.26	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.26	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.13	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.17	I	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.22	I	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	I	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.1		ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.5		ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.52	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410389	

Field ID: SB-309 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308571	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.26	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410389	
2308594	SM 2540 G (20th)	% Solid	84.0		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 11:50

Field ID: EQB-78

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308574	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410582	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410582	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410582	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410582	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410582	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410582	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410582	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410582	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410582	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410582	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410582	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410582	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410582	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410582	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410582	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410582	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410582	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410582	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410582	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410582	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410582	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410582	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410582	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410582	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410582	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410582	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410582	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410582	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410582	RPD
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410582	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410582	

Field ID: EQB-78

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308574	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410582	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410582	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 08:55

Field ID: SB-299 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308596	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.45	I	ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410389	

Field ID: SB-299 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308596	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.84	U	ug/Kg	P410389	
2308623	SM 2540 G (20th)	% Solid	96.5		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 09:00

Field ID: SB-299 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308597	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.50	I	ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410389	

Field ID: SB-299 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308597	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P410389	
2308624	SM 2540 G (20th)	% Solid	95.0		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 09:05

Field ID: SB-299 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308598	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.42	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.42	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.42	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410389	

Field ID: SB-299 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308598	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.85	U	ug/Kg	P410389	
2308625	SM 2540 G (20th)	% Solid	95.8		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 09:35

Field ID: SB-300 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308599	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.48	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.48	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.24	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.24	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.18	I	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.24	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.24	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	2.1		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.24	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.24	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.25	I	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.24	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.24	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.24	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.24	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.24	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.24	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.48	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.24	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.24	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.24	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.24	U	ug/Kg	P410389	

Field ID: SB-300 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308599	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.24	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.96	U	ug/Kg	P410389	
2308626	SM 2540 G (20th)	% Solid	89.0		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 09:40

Field ID: SB-300 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308600	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.21	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.21	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.21	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.21	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.96		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.21	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.21	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.21	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.21	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.21	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.21	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.21	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.21	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.21	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.21	U	ug/Kg	P410389	

Field ID: SB-300 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308600	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.21	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.86	U	ug/Kg	P410389	
2308627	SM 2540 G (20th)	% Solid	95.4		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 09:45

Field ID: SB-300 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308601	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.11	U	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.43	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.43	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.11	U	ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.48	I	ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.7	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.43	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410389	

Field ID: SB-300 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308601	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.87	U	ug/Kg	P410389	
2308628	SM 2540 G (20th)	% Solid	94.8		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 10:15

Field ID: SB-301 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308602	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	26		ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	7.1		ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.51	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	4.8		ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	43		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	31		ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	41		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	10		ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	13		ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	13		ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.3		ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.18	I	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.6		ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	11		ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.75		ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.51	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410389	

Field ID: SB-301 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308602	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	17		ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410389	
2308629	SM 2540 G (20th)	% Solid	84.6		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 10:20

Field ID: SB-301 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308603	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	18		ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	5.2		ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.68	I	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	8.9		ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	0.72		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	34		ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	2.4		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	27		ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.46	I	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	10		ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	16		ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	5.9		ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	7.7		ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	4.3		ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	12		ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.8		ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.89		ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	I	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	7.9		ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.7		ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.4		ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410389	

Field ID: SB-301 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308603	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	11		ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.89	U	ug/Kg	P410389	
2308630	SM 2540 G (20th)	% Solid	92.9		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 11:25

Field ID: SB-302 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308604	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.59		ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.77	I	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	2.0		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.52	I	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	4.8		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.38	I	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.23	I	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.48	I	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.46		ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.24	I	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.23	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P410389	

Field ID: SB-302 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308604	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.90	U	ug/Kg	P410389	
2308631	SM 2540 G (20th)	% Solid	91.9	A	%	P410559	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 11:30

Field ID: SB-302 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308605	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.49	I	ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	1.5	I	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.61	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.30	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.30	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.69	I	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.30	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	1.8		ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.30	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.30	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.30	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.30	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.37	I	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	0.37	I	ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.15	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.15	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.15	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.15	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.15	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.15	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.15	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.30	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.30	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.30	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.4	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.30	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.15	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.15	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.61	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.30	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.30	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.30	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.30	U	ug/Kg	P410389	

Field ID: SB-302 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308605	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.30	U	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.2	U	ug/Kg	P410389	
2308632	SM 2540 G (20th)	% Solid	75.6		%	P410559	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 11:35

Field ID: SB-302 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308606	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.6		ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.57	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.57	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.29	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.29	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	2.4		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.29	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.29	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.29	U	ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.29	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.29	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.29	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.29	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.29	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	1.1		ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.29	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.29	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.29	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.3	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.29	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.57	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.29	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.29	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.29	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.29	U	ug/Kg	P410389	

Field ID: SB-302 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308606	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.97	I	ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P410389	
2308633	SM 2540 G (20th)	% Solid	78.6		%	P410559	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 11:45

Field ID: SB-302 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308607	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.4		ug/Kg	P410389	
		Perfluorobutanoic acid (PFBA)**	0.64	U	ug/Kg	P410389	
		Perfluorodecanoic acid (PFDA)**	0.64	U	ug/Kg	P410389	
		Perfluorododecanoic acid (PFDoA)**	0.32	U	ug/Kg	P410389	
		Perfluoroheptanoic acid (PFHpA)**	0.32	U	ug/Kg	P410389	
		Perfluorohexanesulfonic acid (PFHxS)**	2.8		ug/Kg	P410389	
		Perfluorohexanoic acid (PFHxA)**	0.32	U	ug/Kg	P410389	
		Perfluorononanoic acid (PFNA)**	0.32	U	ug/Kg	P410389	
		Perfluorooctanesulfonic acid (PFOS)**	0.32	U	ug/Kg	P410389	
		Perfluorooctanoic acid (PFOA)**	0.32	U	ug/Kg	P410389	
		Perfluorotetradecanoic acid (PFTeA)**	0.32	U	ug/Kg	P410389	
		Perfluorotridecanoic acid (PFTriA)**	0.32	U	ug/Kg	P410389	
		Perfluoroundecanoic acid (PFUnA)**	0.32	U	ug/Kg	P410389	RPD
		Perfluoropentanoic acid (PFPeA)**	0.32	U	ug/Kg	P410389	
		Perfluoropentanesulfonic acid (PFPeS)**	1.4		ug/Kg	P410389	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.16	U	ug/Kg	P410389	
		Perfluorononanesulfonic acid (PFNS)**	0.16	U	ug/Kg	P410389	
		Perfluorodecanesulfonic acid (PFDS)**	0.16	U	ug/Kg	P410389	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.16	U	ug/Kg	P410389	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.16	U	ug/Kg	P410389	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.16	U	ug/Kg	P410389	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.16	U	ug/Kg	P410389	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.32	U	ug/Kg	P410389	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.32	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.32	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.5	U	ug/Kg	P410389	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.32	U	ug/Kg	P410389	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.16	U	ug/Kg	P410389	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.16	U	ug/Kg	P410389	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.64	U	ug/Kg	P410389	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.32	U	ug/Kg	P410389	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.32	U	ug/Kg	P410389	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.32	U	ug/Kg	P410389	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.32	U	ug/Kg	P410389	

Field ID: SB-302 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308607	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	1.4		ug/Kg	P410389	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.3	U	ug/Kg	P410389	
2308634	SM 2540 G (20th)	% Solid	73.3		%	P410559	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 11:55

Field ID: SB-302 (6-7')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308608	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	7.2		ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.59	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.59	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.30	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.30	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	2.4		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.30	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.30	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.34	I	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.30	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.30	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.30	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.30	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.30	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	3.2		ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.15	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.15	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.15	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.15	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.30	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.30	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.30	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.4	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.30	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.15	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.15	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.59	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.30	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.30	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.30	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.30	U	ug/Kg	P410390	

Field ID: SB-302 (6-7')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308608	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	3.8	J	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.2	U	ug/Kg	P410390	
2308635	SM 2540 G (20th)	% Solid	76.8		%	P410559	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample. Refer to the Lab Analysis Report for an explanation of QC Codes.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 13:40

Field ID: SB-303 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308609	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.29	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	1.1	I	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.46	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.69	I	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	4.5		ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.23	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.39	I	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.28	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.46	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P410390	

Field ID: SB-303 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308609	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.92	U	ug/Kg	P410390	
2308636	SM 2540 G (20th)	% Solid	90.9		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 13:45

Field ID: SB-303 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308610	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.12	U	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.48	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.48	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.24	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.24	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.38	I	ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.24	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.24	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	1.3		ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.24	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.24	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.24	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.24	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.24	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.12	U	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.12	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.12	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.12	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.12	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.12	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.12	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.12	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.24	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.24	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.24	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.9	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.24	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.12	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.12	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.48	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.24	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.24	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.24	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.24	U	ug/Kg	P410390	

Field ID: SB-303 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308610	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.24	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.95	U	ug/Kg	P410390	
2308637	SM 2540 G (20th)	% Solid	89.5		%	P410474	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 13:50

Field ID: SB-303 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308611	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.27	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.55	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.55	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.27	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.27	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.75		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.27	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.27	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.27	U	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.27	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.27	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.27	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.27	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.27	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.18	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.27	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.27	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.27	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.2	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.27	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.55	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.27	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.27	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.27	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.27	U	ug/Kg	P410390	

Field ID: SB-303 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308611	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.27	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P410390	
2308638	SM 2540 G (20th)	% Solid	81.0	A	%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 14:00

Field ID: SB-303 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308612	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.48	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.57	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.57	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.28	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.28	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	1.1		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.28	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.28	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.28	U	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.28	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.28	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.28	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.28	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.28	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.32	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.28	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.28	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.28	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.3	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.28	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.57	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.28	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.28	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.28	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.28	U	ug/Kg	P410390	

Field ID: SB-303 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308612	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.28	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P410390	
2308639	SM 2540 G (20th)	% Solid	79.1		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 14:10

Field ID: SB-303 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308613	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.71		ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.57	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.57	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.29	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.29	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	1.2		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.29	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.29	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.29	U	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.29	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.29	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.29	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.29	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.29	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.34	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.14	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.14	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.14	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.14	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.14	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.29	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.29	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.29	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.3	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.29	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.14	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.14	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.57	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.29	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.29	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.29	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.29	U	ug/Kg	P410390	

Field ID: SB-303 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308613	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.29	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P410390	
2308640	SM 2540 G (20th)	% Solid	78.7		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 14:50

Field ID: SB-304 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308614	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.71		ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	1.0	I	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.51	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.26	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.26	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.84		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.62	I	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.26	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	3.4		ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.26	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.26	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.26	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.26	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.68	I	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.26	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.29	I	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.26	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.26	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.26	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.0	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.26	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.51	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.26	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.26	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.26	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.26	U	ug/Kg	P410390	

Field ID: SB-304 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308614	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	1.1		ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.0	U	ug/Kg	P410390	
2308641	SM 2540 G (20th)	% Solid	84.7		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 15:00

Field ID: SB-304 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308615	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.35	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.77	I	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.61	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.30	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.30	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.42	I	ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.30	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.30	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	6.7		ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.30	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.30	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.30	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.30	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.45	I	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.15	U	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.15	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.15	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.15	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.15	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.30	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.30	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.30	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.4	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.30	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.15	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.15	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.61	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.30	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.30	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.30	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.30	U	ug/Kg	P410390	

Field ID: SB-304 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308615	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.33	I	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.2	U	ug/Kg	P410390	
2308642	SM 2540 G (20th)	% Solid	75.8		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 15:10

Field ID: SB-304 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308616	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.26	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.78	I	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.59	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.29	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.29	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.31	I	ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.29	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.29	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	8.3		ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.29	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.29	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.29	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.29	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.29	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.15	U	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.15	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.15	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.15	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.15	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.15	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.29	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.29	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.29	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.4	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.29	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.15	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.15	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.59	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.29	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.29	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.29	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.29	U	ug/Kg	P410390	

Field ID: SB-304 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308616	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.29	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.2	U	ug/Kg	P410390	
2308643	SM 2540 G (20th)	% Solid	77.0		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 16:15

Field ID: SB-308 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308617	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.13	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.46	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.46	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.23	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.23	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.62		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.30	I	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.23	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	2.8		ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.23	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.23	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.23	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.23	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.32	I	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.11	U	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.23	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.23	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.23	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.23	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.46	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	0.23	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.23	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.23	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.23	U	ug/Kg	P410390	

Field ID: SB-308 (0-0.5')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308617	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.23	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.92	U	ug/Kg	P410390	
2308644	SM 2540 G (20th)	% Solid	91.2		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 16:20

Field ID: SB-308 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308618	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.39	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.53	I	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	1.4		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.49	I	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.24	I	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.22	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410390	

Field ID: SB-308 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308618	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.35	I	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.89	U	ug/Kg	P410390	
2308645	SM 2540 G (20th)	% Solid	93.5		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 16:25

Field ID: SB-308 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308619	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.23	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.38	I	ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.18	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410390	

Field ID: SB-308 (2-4')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308619	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.90	U	ug/Kg	P410390	
2308646	SM 2540 G (20th)	% Solid	92.9		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 16:30

Field ID: SB-308 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308620	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.37	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.45	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.45	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.54		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.29	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.45	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410390	

Field ID: SB-308 (4-6')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308620	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.22	U	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	0.89	U	ug/Kg	P410390	
2308647	SM 2540 G (20th)	% Solid	93.1		%	P410475	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 16:40

Field ID: SB-308 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308621	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.51		ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	0.44	U	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.44	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.22	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.22	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.44	I	ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.22	U	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	0.22	U	ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.22	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.22	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.22	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.22	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.22	U	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.21	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.11	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.11	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.11	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.11	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.11	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.22	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.22	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.8	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.22	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.11	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.11	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.44	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.22	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.22	U	ug/Kg	P410390	

Field ID: SB-308 (6-8')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308621	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.26	I	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	0.88	U	ug/Kg	P410390	
2308648	SM 2540 G (20th)	% Solid	93.4	A	%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 14:55

Field ID: SB-304 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308622	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.47	I	ug/Kg	P410390	
		Perfluorobutanoic acid (PFBA)**	1.1	I	ug/Kg	P410390	
		Perfluorodecanoic acid (PFDA)**	0.54	U	ug/Kg	P410390	
		Perfluorododecanoic acid (PFDoA)**	0.27	U	ug/Kg	P410390	
		Perfluoroheptanoic acid (PFHpA)**	0.27	U	ug/Kg	P410390	
		Perfluorohexanesulfonic acid (PFHxS)**	0.66		ug/Kg	P410390	
		Perfluorohexanoic acid (PFHxA)**	0.66	I	ug/Kg	P410390	
		Perfluorononanoic acid (PFNA)**	0.27	U	ug/Kg	P410390	
		Perfluorooctanesulfonic acid (PFOS)**	4.6		ug/Kg	P410390	
		Perfluorooctanoic acid (PFOA)**	0.27	U	ug/Kg	P410390	
		Perfluorotetradecanoic acid (PFTeA)**	0.27	U	ug/Kg	P410390	
		Perfluorotridecanoic acid (PFTriA)**	0.27	U	ug/Kg	P410390	
		Perfluoroundecanoic acid (PFUnA)**	0.27	U	ug/Kg	P410390	
		Perfluoropentanoic acid (PFPeA)**	0.54	I	ug/Kg	P410390	
		Perfluoropentanesulfonic acid (PFPeS)**	0.24	I	ug/Kg	P410390	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.13	U	ug/Kg	P410390	
		Perfluorononanesulfonic acid (PFNS)**	0.13	U	ug/Kg	P410390	
		Perfluorodecanesulfonic acid (PFDS)**	0.13	U	ug/Kg	P410390	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.13	U	ug/Kg	P410390	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.15	I	ug/Kg	P410390	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.13	U	ug/Kg	P410390	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.13	U	ug/Kg	P410390	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	0.27	U	ug/Kg	P410390	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	0.27	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	0.27	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.1	U	ug/Kg	P410390	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	0.27	U	ug/Kg	P410390	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.13	U	ug/Kg	P410390	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.13	U	ug/Kg	P410390	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	0.54	U	ug/Kg	P410390	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	0.27	U	ug/Kg	P410390	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	0.27	U	ug/Kg	P410390	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	0.27	U	ug/Kg	P410390	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	0.27	U	ug/Kg	P410390	

Field ID: SB-304 (0.5-2')

Matrix: S-SOIL

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2308622	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	0.59	I	ug/Kg	P410390	MS
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	1.1	U	ug/Kg	P410390	
2308649	SM 2540 G (20th)	% Solid	82.1		%	P410558	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFBS could not be assessed due to a high concentration of parameter in the spiked sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P410184

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

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Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P410387

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg

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Reference Method: DEP SOP: LC-001-3

Batch ID: P410387

Component	Result	Code	Units
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3

Batch ID: P410388

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg

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Reference Method: DEP SOP: LC-001-3

Batch ID: P410388

Component	Result	Code	Units
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3

Batch ID: P410389

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3

Batch ID: P410390

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.20	U	ug/Kg
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.20	U	ug/Kg

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Reference Method: DEP SOP: LC-001-3

Batch ID: P410390

Component	Result	Code	Units
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	1.6	U	ug/Kg
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.10	U	ug/Kg
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.20	U	ug/Kg
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.40	U	ug/Kg
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.10	U	ug/Kg
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.10	U	ug/Kg
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.80	U	ug/Kg
Perfluoro-1-butane sulfonamide (FBSA)	0.10	U	ug/Kg
Perfluoro-1-hexane sulfonamide (FHxSA)	0.10	U	ug/Kg
Perfluoro-1-octane sulfonamide (FOSA)	0.10	U	ug/Kg
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.20	U	ug/Kg
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.20	U	ug/Kg
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.20	U	ug/Kg
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	0.20	U	ug/Kg
Perfluorobutanesulfonic acid (PFBS)	0.10	U	ug/Kg
Perfluorobutanoic acid (PFBA)	0.40	U	ug/Kg
Perfluorodecanesulfonic acid (PFDS)	0.10	U	ug/Kg
Perfluorodecanoic acid (PFDA)	0.40	U	ug/Kg
Perfluorododecanoic acid (PFDoA)	0.20	U	ug/Kg
Perfluoroheptanesulfonic acid (PFHpS)	0.10	U	ug/Kg
Perfluoroheptanoic acid (PFHpA)	0.20	U	ug/Kg
Perfluorohexanesulfonic acid (PFHxS)	0.10	U	ug/Kg
Perfluorohexanoic acid (PFHxA)	0.20	U	ug/Kg
Perfluorononanesulfonic acid (PFNS)	0.10	U	ug/Kg
Perfluorononanoic acid (PFNA)	0.20	U	ug/Kg
Perfluorooctanesulfonic acid (PFOS)	0.20	U	ug/Kg
Perfluorooctanoic acid (PFOA)	0.20	U	ug/Kg
Perfluoropentanesulfonic acid (PFPeS)	0.10	U	ug/Kg
Perfluoropentanoic acid (PFPeA)	0.20	U	ug/Kg
Perfluoropropanesulfonic acid (PFPrS)	0.20	U	ug/Kg
Perfluorotetradecanoic acid (PFTeA)	0.20	U	ug/Kg
Perfluorotridecanoic acid (PFTriA)	0.20	U	ug/Kg
Perfluoroundecanoic acid (PFUnA)	0.20	U	ug/Kg

Reference Method: DEP SOP: LC-001-3

Batch ID: P410582

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L

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Reference Method: DEP SOP: LC-001-3

Batch ID: P410582

Component	Result	Code	Units
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L

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Reference Method: DEP SOP: LC-001-3
Batch ID: P410695

Component	Result	Code	Units
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410184

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	84.0		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	111		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	114		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	124		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	121		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	122		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	97.3		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	160		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	154		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	117		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	113		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	89.0		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	65.8		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	120		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	111		P	30 - 160
Perfluorobutanoic acid (PFBA)	116		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	101		P	30 - 160
Perfluorodecanoic acid (PFDA)	91.8		P	30 - 160
Perfluorododecanoic acid (PFDoA)	86.3		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	82.1		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	103		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	112		P	30 - 160
Perfluorohexanoic acid (PFHxA)	97.1		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	114		P	30 - 160
Perfluorononanoic acid (PFNA)	101		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	99.1		P	30 - 160
Perfluorooctanoic acid (PFOA)	106		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	115		P	30 - 160
Perfluoropentanoic acid (PFPeA)	119		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	157		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	147		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	149		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	116		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	104	107	P/P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	114	120	P/P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.7	112	P/P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	125	112	P/P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	150	157	P/P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	134	147	P/P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	138	139	P/P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	130	121	P/P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	122	113	P/P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	129	145	P/P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	146	149	P/P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	137	139	P/P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	123	126	P/P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	122	120	P/P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	99.6	98.3	P/P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	70.2	75.6	P/P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	126	P/P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	105	110	P/P	30 - 160
Perfluorobutanoic acid (PFBA)	124	118	P/P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	121	120	P/P	30 - 160
Perfluorodecanoic acid (PFDA)	124	126	P/P	30 - 160
Perfluorododecanoic acid (PFDoA)	90.9	123	P/P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	90.6	85.0	P/P	30 - 160
Perfluoroheptanoic acid (PFHpA)	119	106	P/P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	118	118	P/P	30 - 160
Perfluorohexanoic acid (PFHxA)	121	107	P/P	30 - 160
Perfluorononanesulfonic acid (PFNS)	128	132	P/P	30 - 160
Perfluorononanoic acid (PFNA)	104	111	P/P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	109	108	P/P	30 - 160
Perfluorooctanoic acid (PFOA)	122	108	P/P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	108	114	P/P	30 - 160
Perfluoropentanoic acid (PFPeA)	132	131	P/P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	149	150	P/P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	149	133	P/P	30 - 160
Perfluorotridecanoic acid (PFTriA)	153	148	P/P	30 - 160
Perfluoroundecanoic acid (PFUnA)	127	124	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	125		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	129		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	116		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	129		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	132		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	115		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	110		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	131		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	160		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	153		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	129		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	129		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	124		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	102		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	80.5		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	93.1		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	90.5		P	40 - 160
Perfluorobutanoic acid (PFBA)	118		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	128		P	40 - 160
Perfluorodecanoic acid (PFDA)	137		P	40 - 160
Perfluorododecanoic acid (PFDoA)	95.5		P	40 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410387

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	93.5		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	127		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	112		P	40 - 160
Perfluorohexanoic acid (PFHxA)	128		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	119		P	40 - 160
Perfluorononanoic acid (PFNA)	127		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	112		P	40 - 160
Perfluorooctanoic acid (PFOA)	143		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	94.5		P	40 - 160
Perfluoropentanoic acid (PFPeA)	136		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	110		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	137		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	141		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	101		P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410388

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	132		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	121		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.7		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	136		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.8		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	142		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	154		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	124		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	115		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	123		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	69.2		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	88.8		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	98.5		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	83.9		P	40 - 160
Perfluorobutanoic acid (PFBA)	116		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	130		P	40 - 160
Perfluorodecanoic acid (PFDA)	112		P	40 - 160
Perfluorododecanoic acid (PFDoA)	94.2		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	68.1		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	104		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.5		P	40 - 160
Perfluorohexanoic acid (PFHxA)	109		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	130		P	40 - 160
Perfluorononanoic acid (PFNA)	102		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	116		P	40 - 160
Perfluorooctanoic acid (PFOA)	124		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	94.1		P	40 - 160
Perfluoropentanoic acid (PFPeA)	139		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	107		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410388

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluorotetradecanoic acid (PFTeA)	138		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	122		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	104		P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410389

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	108		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103		P	40 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.3		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	124		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.7		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	111		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	120		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	66.2		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	127		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	128		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	115		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	94.9		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.8		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	81.0		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	128		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	128		P	40 - 160
Perfluorobutanoic acid (PFBA)	118		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	109		P	40 - 160
Perfluorodecanoic acid (PFDA)	101		P	40 - 160
Perfluorododecanoic acid (PFDoA)	89.5		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	84.1		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	110		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	100		P	40 - 160
Perfluorohexanoic acid (PFHxA)	96.1		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	113		P	40 - 160
Perfluorononanoic acid (PFNA)	107		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	106		P	40 - 160
Perfluorooctanoic acid (PFOA)	122		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	126		P	40 - 160
Perfluoropentanoic acid (PFPeA)	123		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	138		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	120		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	136		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	81.6		P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410390

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120		P	40 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	112		P	40 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	117		P	40 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410390

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106		P	40 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	154		P	40 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	118		P	40 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.9		P	40 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	139		P	40 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	123		P	40 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106		P	40 - 160
Perfluoro-1-butane sulfonamide (FBSA)	130		P	40 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	126		P	40 - 160
Perfluoro-1-octane sulfonamide (FOSA)	119		P	40 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	101		P	40 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.9		P	40 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	77.4		P	40 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	124		P	40 - 160
Perfluorobutanesulfonic acid (PFBS)	115		P	40 - 160
Perfluorobutanoic acid (PFBA)	135		P	40 - 160
Perfluorodecanesulfonic acid (PFDS)	112		P	40 - 160
Perfluorodecanoic acid (PFDA)	108		P	40 - 160
Perfluorododecanoic acid (PFDoA)	106		P	40 - 160
Perfluoroheptanesulfonic acid (PFHpS)	82.5		P	40 - 160
Perfluoroheptanoic acid (PFHpA)	147		P	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	111		P	40 - 160
Perfluorohexanoic acid (PFHxA)	82.5		P	40 - 160
Perfluorononanesulfonic acid (PFNS)	106		P	40 - 160
Perfluorononanoic acid (PFNA)	94.0		P	40 - 160
Perfluorooctanesulfonic acid (PFOS)	106		P	40 - 160
Perfluorooctanoic acid (PFOA)	127		P	40 - 160
Perfluoropentanesulfonic acid (PFPeS)	109		P	40 - 160
Perfluoropentanoic acid (PFPeA)	117		P	40 - 160
Perfluoropropanesulfonic acid (PFPrS)	123		P	40 - 160
Perfluorotetradecanoic acid (PFTeA)	114		P	40 - 160
Perfluorotridecanoic acid (PFTriA)	120		P	40 - 160
Perfluoroundecanoic acid (PFUnA)	119		P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410582

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	80.4		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	132		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	106		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	112		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	139		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	117		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.5		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	107		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	112		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	122		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	156		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	151		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	120		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	116		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410582

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	93.1		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	107		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	125		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	114		P	30 - 160
Perfluorobutanoic acid (PFBA)	117		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	98.9		P	30 - 160
Perfluorodecanoic acid (PFDA)	96.4		P	30 - 160
Perfluorododecanoic acid (PFDoA)	100		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	81.3		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	117		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	104		P	30 - 160
Perfluorohexanoic acid (PFHxA)	111		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	115		P	30 - 160
Perfluorononanoic acid (PFNA)	105		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	108		P	30 - 160
Perfluorooctanoic acid (PFOA)	127		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	131		P	30 - 160
Perfluoropentanoic acid (PFPeA)	137		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	122		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	135		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	144		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	85.7		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.2		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	108		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.8		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.9		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	156		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	154		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.7		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.9		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	96.5		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	138		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	113		P	30 - 160
Perfluorobutanoic acid (PFBA)	121		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	97.7		P	30 - 160
Perfluorodecanoic acid (PFDA)	83.5		P	30 - 160
Perfluorododecanoic acid (PFDoA)	88.3		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.2		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	91.8		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	85.9		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P410695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluorohexanoic acid (PFHxA)	109		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	106		P	30 - 160
Perfluorononanoic acid (PFNA)	77.2		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	98.9		P	30 - 160
Perfluorooctanoic acid (PFOA)	116		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	133		P	30 - 160
Perfluoropentanoic acid (PFPeA)	98.7		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	151		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	87.0		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	143		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	102		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410184

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2307657	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	64.7	62.5	P/P	30 - 160
2307657	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	114	117	P/P	30 - 160
2307657	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.6	109	P/P	30 - 160
2307657	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	123	111	P/P	30 - 160
2307657	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	156	140	P/P	30 - 160
2307657	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	133	127	P/P	30 - 160
2307657	Hexafluoropropylene oxide dimer acid (HFPO-DA)	125	100	P/P	30 - 160
2307657	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	139	116	P/P	30 - 160
2307657	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	118	110	P/P	30 - 160
2307657	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106	96.1	P/P	30 - 160
2307657	Perfluoro-1-butane sulfonamide (FBSA)	119	109	P/P	30 - 160
2307657	Perfluoro-1-hexane sulfonamide (FHxSA)	111	105	P/P	30 - 160
2307657	Perfluoro-1-octane sulfonamide (FOSA)	116	112	P/P	30 - 160
2307657	Perfluoro-3-methoxypropanoic acid (PFMPA)	107	91.1	P/P	30 - 160
2307657	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	94.6	85.9	P/P	30 - 160
2307657	Perfluoro-4-methoxybutanoic acid (PFMBA)	76.1	74.8	P/P	30 - 160
2307657	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	136	126	P/P	30 - 160
2307657	Perfluorobutanesulfonic acid (PFBS)	110	103	P/P	30 - 160
2307657	Perfluorobutanoic acid (PFBA)	103	108	P/P	30 - 160
2307657	Perfluorodecanesulfonic acid (PFDS)	97.9	85.8	P/P	30 - 160
2307657	Perfluorodecanoic acid (PFDA)	99.6	91.6	P/P	30 - 160
2307657	Perfluorododecanoic acid (PFDoA)	70.2	91.8	P/P	30 - 160
2307657	Perfluoroheptanesulfonic acid (PFHpS)	90.8	84.7	P/P	30 - 160
2307657	Perfluoroheptanoic acid (PFHpA)	110	115	P/P	30 - 160
2307657	Perfluorohexanesulfonic acid (PFHxS)	105	108	P/P	30 - 160
2307657	Perfluorohexanoic acid (PFHxA)	107	119	P/P	30 - 160
2307657	Perfluorononanesulfonic acid (PFNS)	118	111	P/P	30 - 160
2307657	Perfluorononanoic acid (PFNA)	124	93.9	P/P	30 - 160
2307657	Perfluorooctanesulfonic acid (PFOS)	107	114	P/P	30 - 160
2307657	Perfluorooctanoic acid (PFOA)	108	110	P/P	30 - 160
2307657	Perfluoropentanesulfonic acid (PFPeS)	118	116	P/P	30 - 160
2307657	Perfluoropentanoic acid (PFPeA)	138	136	P/P	30 - 160
2307657	Perfluoropropanesulfonic acid (PFPrS)	159	150	P/P	30 - 160
2307657	Perfluorotetradecanoic acid (PFTeA)	153	124	P/P	30 - 160
2307657	Perfluorotridecanoic acid (PFTriA)	149	132	P/P	30 - 160
2307657	Perfluoroundecanoic acid (PFUnA)	131	118	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308530	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	113		P	30 - 160
2308530	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	125		P	30 - 160
2308530	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	120		P	30 - 160
2308530	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	156		P	30 - 160
2308530	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	140		P	30 - 160
2308530	Hexafluoropropylene oxide dimer acid (HFPO-DA)	112		P	30 - 160
2308530	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	130		P	30 - 160
2308530	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	116		P	30 - 160
2308530	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	153		P	30 - 160
2308530	Perfluoro-1-octane sulfonamide (FOSA)	114		P	30 - 160
2308530	Perfluoro-3-methoxypropanoic acid (PFMPA)	123		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308530	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.9		P	30 - 160
2308530	Perfluoro-4-methoxybutanoic acid (PFMBA)	75.2		P	30 - 160
2308530	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	117		P	30 - 160
2308530	Perfluorodecanesulfonic acid (PFDS)	139		P	30 - 160
2308530	Perfluorodecanoic acid (PFDA)	130		P	30 - 160
2308530	Perfluorododecanoic acid (PFDoA)	86.0		P	30 - 160
2308530	Perfluorononanesulfonic acid (PFNS)	128		P	30 - 160
2308530	Perfluorononanoic acid (PFNA)	106		P	30 - 160
2308530	Perfluorotetradecanoic acid (PFTeA)	144		P	30 - 160
2308530	Perfluorotridecanoic acid (PFTriA)	152		P	30 - 160
2308530	Perfluoroundecanoic acid (PFUnA)	142		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410387

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308434	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	120	P/P	40 - 160
2308434	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	112	91.2	P/P	40 - 160
2308434	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.6	118	P/P	40 - 160
2308434	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	116	127	P/P	40 - 160
2308434	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	128	128	P/P	40 - 160
2308434	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	131	137	P/P	40 - 160
2308434	Hexafluoropropylene oxide dimer acid (HFPO-DA)	119	124	P/P	40 - 160
2308434	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	113	119	P/P	40 - 160
2308434	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	125	138	P/P	40 - 160
2308434	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	150	142	P/P	40 - 160
2308434	Perfluoro-1-butane sulfonamide (FBSA)	122	138	P/P	40 - 160
2308434	Perfluoro-1-hexane sulfonamide (FHxSA)	127	146	P/P	40 - 160
2308434	Perfluoro-1-octane sulfonamide (FOSA)	120	125	P/P	40 - 160
2308434	Perfluoro-3-methoxypropanoic acid (PFMPA)	105	106	P/P	40 - 160
2308434	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.7	90.5	P/P	40 - 160
2308434	Perfluoro-4-methoxybutanoic acid (PFMBA)	88.3	87.4	P/P	40 - 160
2308434	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	116	108	P/P	40 - 160
2308434	Perfluorobutanesulfonic acid (PFBS)	121	93.9	P/P	40 - 160
2308434	Perfluorobutanoic acid (PFBA)	129	125	P/P	40 - 160
2308434	Perfluorodecanesulfonic acid (PFDS)	134	123	P/P	40 - 160
2308434	Perfluorodecanoic acid (PFDA)	109	117	P/P	40 - 160
2308434	Perfluorododecanoic acid (PFDoA)	99.4	84.3	P/P	40 - 160
2308434	Perfluoroheptanesulfonic acid (PFHpS)	80.7	90.0	P/P	40 - 160
2308434	Perfluoroheptanoic acid (PFHpA)	142	139	P/P	40 - 160
2308434	Perfluorohexanesulfonic acid (PFHxS)	104	106	P/P	40 - 160
2308434	Perfluorohexanoic acid (PFHxA)	140	124	P/P	40 - 160
2308434	Perfluorononanesulfonic acid (PFNS)	124	125	P/P	40 - 160
2308434	Perfluorononanoic acid (PFNA)	98.4	120	P/P	40 - 160
2308434	Perfluorooctanesulfonic acid (PFOS)	117	111	P/P	40 - 160
2308434	Perfluorooctanoic acid (PFOA)	85.8	87.4	P/P	40 - 160
2308434	Perfluoropentanesulfonic acid (PFPeS)	113	91.0	P/P	40 - 160
2308434	Perfluoropentanoic acid (PFPeA)	123	127	P/P	40 - 160
2308434	Perfluoropropanesulfonic acid (PFPrS)	141	118	P/P	40 - 160
2308434	Perfluorotetradecanoic acid (PFTeA)	126	148	P/P	40 - 160
2308434	Perfluorotridecanoic acid (PFTriA)	124	143	P/P	40 - 160
2308434	Perfluoroundecanoic acid (PFUnA)	126	112	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410388

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308454	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	141	124	P/P	40 - 160
2308454	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	123	130	P/P	40 - 160
2308454	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	110	102	P/P	40 - 160
2308454	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	130	110	P/P	40 - 160
2308454	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	139	150	P/P	40 - 160
2308454	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	142	122	P/P	40 - 160
2308454	Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	88.2	P/P	40 - 160
2308454	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	105	109	P/P	40 - 160
2308454	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	153	144	P/P	40 - 160
2308454	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	119	132	P/P	40 - 160
2308454	Perfluoro-1-butane sulfonamide (FBSA)	139	140	P/P	40 - 160
2308454	Perfluoro-1-hexane sulfonamide (FHxSA)	117	128	P/P	40 - 160
2308454	Perfluoro-1-octane sulfonamide (FOSA)	122	119	P/P	40 - 160
2308454	Perfluoro-3-methoxypropanoic acid (PFMPA)	86.1	107	P/P	40 - 160
2308454	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.9	88.3	P/P	40 - 160
2308454	Perfluoro-4-methoxybutanoic acid (PFMBA)	76.8	75.1	P/P	40 - 160
2308454	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	122	126	P/P	40 - 160
2308454	Perfluorobutanesulfonic acid (PFBS)	109	109	P/P	40 - 160
2308454	Perfluorobutanoic acid (PFBA)	121	135	P/P	40 - 160
2308454	Perfluorodecanesulfonic acid (PFDS)	132	127	P/P	40 - 160
2308454	Perfluorodecanoic acid (PFDA)	111	134	P/P	40 - 160
2308454	Perfluorododecanoic acid (PFDoA)	92.5	112	P/P	40 - 160
2308454	Perfluoroheptanesulfonic acid (PFHpS)	74.2	86.1	P/P	40 - 160
2308454	Perfluoroheptanoic acid (PFHpA)	114	99.1	P/P	40 - 160
2308454	Perfluorohexanesulfonic acid (PFHxS)	96.0	106	P/P	40 - 160
2308454	Perfluorohexanoic acid (PFHxA)	131	123	P/P	40 - 160
2308454	Perfluorononanesulfonic acid (PFNS)	127	115	P/P	40 - 160
2308454	Perfluorononanoic acid (PFNA)	126	105	P/P	40 - 160
2308454	Perfluorooctanesulfonic acid (PFOS)	117	110	P/P	40 - 160
2308454	Perfluorooctanoic acid (PFOA)	125	122	P/P	40 - 160
2308454	Perfluoropentanesulfonic acid (PFPeS)	120	118	P/P	40 - 160
2308454	Perfluoropentanoic acid (PFPeA)	118	119	P/P	40 - 160
2308454	Perfluoropropanesulfonic acid (PFPrS)	145	130	P/P	40 - 160
2308454	Perfluorotetradecanoic acid (PFTeA)	136	134	P/P	40 - 160
2308454	Perfluorotridecanoic acid (PFTriA)	142	125	P/P	40 - 160
2308454	Perfluoroundecanoic acid (PFUnA)	109	98.4	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308564	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	134	128	P/P	40 - 160
2308564	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	111	P/P	40 - 160
2308564	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	102	115	P/P	40 - 160
2308564	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	121	125	P/P	40 - 160
2308564	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	145	153	P/P	40 - 160
2308564	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	124	134	P/P	40 - 160
2308564	Hexafluoropropylene oxide dimer acid (HFPO-DA)	118	114	P/P	40 - 160
2308564	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	127	131	P/P	40 - 160
2308564	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	123	121	P/P	40 - 160
2308564	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	98.5	96.1	P/P	40 - 160
2308564	Perfluoro-1-butane sulfonamide (FBSA)	125	136	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410389

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308564	Perfluoro-1-hexane sulfonamide (FHxSA)	120	129	P/P	40 - 160
2308564	Perfluoro-1-octane sulfonamide (FOSA)	109	115	P/P	40 - 160
2308564	Perfluoro-3-methoxypropanoic acid (PFMPA)	85.6	92.3	P/P	40 - 160
2308564	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.3	82.3	P/P	40 - 160
2308564	Perfluoro-4-methoxybutanoic acid (PFMBA)	63.4	79.9	P/P	40 - 160
2308564	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	127	111	P/P	40 - 160
2308564	Perfluorobutanesulfonic acid (PFBS)	114	104	P/P	40 - 160
2308564	Perfluorobutanoic acid (PFBA)	123	117	P/P	40 - 160
2308564	Perfluorodecanesulfonic acid (PFDS)	126	127	P/P	40 - 160
2308564	Perfluorodecanoic acid (PFDA)	117	112	P/P	40 - 160
2308564	Perfluorododecanoic acid (PFDoA)	104	104	P/P	40 - 160
2308564	Perfluoroheptanesulfonic acid (PFHpS)	85.2	79.0	P/P	40 - 160
2308564	Perfluoroheptanoic acid (PFHpA)	111	107	P/P	40 - 160
2308564	Perfluorohexanesulfonic acid (PFHxS)	108	99.0	P/P	40 - 160
2308564	Perfluorohexanoic acid (PFHxA)	107	120	P/P	40 - 160
2308564	Perfluorononanesulfonic acid (PFNS)	124	124	P/P	40 - 160
2308564	Perfluorononanoic acid (PFNA)	86.6	99.0	P/P	40 - 160
2308564	Perfluorooctanoic acid (PFOA)	127	135	P/P	40 - 160
2308564	Perfluoropentanesulfonic acid (PFPeS)	118	104	P/P	40 - 160
2308564	Perfluoropentanoic acid (PFPeA)	138	130	P/P	40 - 160
2308564	Perfluoropropanesulfonic acid (PFPrS)	126	141	P/P	40 - 160
2308564	Perfluorotetradecanoic acid (PFTeA)	145	136	P/P	40 - 160
2308564	Perfluorotridecanoic acid (PFTriA)	136	142	P/P	40 - 160
2308564	Perfluoroundecanoic acid (PFUnA)	151	86.7	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308608	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	111	117	P/P	40 - 160
2308608	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109	106	P/P	40 - 160
2308608	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.6	105	P/P	40 - 160
2308608	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	114	P/P	40 - 160
2308608	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	157	144	P/P	40 - 160
2308608	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	116	131	P/P	40 - 160
2308608	Hexafluoropropylene oxide dimer acid (HFPO-DA)	117	97.4	P/P	40 - 160
2308608	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	142	140	P/P	40 - 160
2308608	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106	108	P/P	40 - 160
2308608	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	114	113	P/P	40 - 160
2308608	Perfluoro-1-butane sulfonamide (FBSA)	129	128	P/P	40 - 160
2308608	Perfluoro-1-hexane sulfonamide (FHxSA)	120	125	P/P	40 - 160
2308608	Perfluoro-1-octane sulfonamide (FOSA)	110	111	P/P	40 - 160
2308608	Perfluoro-3-methoxypropanoic acid (PFMPA)	88.7	97.9	P/P	40 - 160
2308608	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.6	89.4	P/P	40 - 160
2308608	Perfluoro-4-methoxybutanoic acid (PFMBA)	74.0	80.7	P/P	40 - 160
2308608	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	124	110	P/P	40 - 160
2308608	Perfluorobutanoic acid (PFBA)	117	126	P/P	40 - 160
2308608	Perfluorodecanesulfonic acid (PFDS)	115	116	P/P	40 - 160
2308608	Perfluorodecanoic acid (PFDA)	137	109	P/P	40 - 160
2308608	Perfluorododecanoic acid (PFDoA)	88.9	87.7	P/P	40 - 160
2308608	Perfluoroheptanesulfonic acid (PFHpS)	82.2	80.5	P/P	40 - 160
2308608	Perfluoroheptanoic acid (PFHpA)	96.5	102	P/P	40 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410390

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308608	Perfluorohexanesulfonic acid (PFHxS)	84.0	92.6	P/P	40 - 160
2308608	Perfluorohexanoic acid (PFHxA)	112	137	P/P	40 - 160
2308608	Perfluorononanesulfonic acid (PFNS)	108	107	P/P	40 - 160
2308608	Perfluorononanoic acid (PFNA)	120	101	P/P	40 - 160
2308608	Perfluorooctanesulfonic acid (PFOS)	110	107	P/P	40 - 160
2308608	Perfluorooctanoic acid (PFOA)	117	122	P/P	40 - 160
2308608	Perfluoropentanesulfonic acid (PFPeS)	115	88.0	P/P	40 - 160
2308608	Perfluoropentanoic acid (PFPeA)	117	110	P/P	40 - 160
2308608	Perfluoropropanesulfonic acid (PFPrS)	136	174	P/F	40 - 160
2308608	Perfluorotetradecanoic acid (PFTeA)	158	157	P/P	40 - 160
2308608	Perfluorotridecanoic acid (PFTriA)	157	148	P/P	40 - 160
2308608	Perfluoroundecanoic acid (PFUnA)	92.6	95.4	P/P	40 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410582

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2308932	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	86.2	66.8	P/P	30 - 160
2308932	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	102	104	P/P	30 - 160
2308932	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	108	115	P/P	30 - 160
2308932	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	126	103	P/P	30 - 160
2308932	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	148	125	P/P	30 - 160
2308932	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	138	107	P/P	30 - 160
2308932	Hexafluoropropylene oxide dimer acid (HFPO-DA)	113	111	P/P	30 - 160
2308932	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	125	138	P/P	30 - 160
2308932	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	116	108	P/P	30 - 160
2308932	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	88.2	81.5	P/P	30 - 160
2308932	Perfluoro-1-butane sulfonamide (FBSA)	151	147	P/P	30 - 160
2308932	Perfluoro-1-hexane sulfonamide (FHxSA)	155	144	P/P	30 - 160
2308932	Perfluoro-1-octane sulfonamide (FOSA)	126	122	P/P	30 - 160
2308932	Perfluoro-3-methoxypropanoic acid (PFMPA)	127	109	P/P	30 - 160
2308932	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	117	106	P/P	30 - 160
2308932	Perfluoro-4-methoxybutanoic acid (PFMBA)	133	94.8	P/P	30 - 160
2308932	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	140	135	P/P	30 - 160
2308932	Perfluorobutanesulfonic acid (PFBS)	122	125	P/P	30 - 160
2308932	Perfluorobutanoic acid (PFBA)	141	126	P/P	30 - 160
2308932	Perfluorodecanesulfonic acid (PFDS)	93.9	89.0	P/P	30 - 160
2308932	Perfluorodecanoic acid (PFDA)	124	104	P/P	30 - 160
2308932	Perfluorododecanoic acid (PFDoA)	98.3	85.1	P/P	30 - 160
2308932	Perfluoroheptanesulfonic acid (PFHpS)	93.9	91.7	P/P	30 - 160
2308932	Perfluoroheptanoic acid (PFHpA)	116	93.7	P/P	30 - 160
2308932	Perfluorohexanesulfonic acid (PFHxS)	111	114	P/P	30 - 160
2308932	Perfluorohexanoic acid (PFHxA)	103	107	P/P	30 - 160
2308932	Perfluorononanesulfonic acid (PFNS)	133	99.8	P/P	30 - 160
2308932	Perfluorononanoic acid (PFNA)	110	94.4	P/P	30 - 160
2308932	Perfluorooctanoic acid (PFOA)	132	120	P/P	30 - 160
2308932	Perfluoropentanesulfonic acid (PFPeS)	133	120	P/P	30 - 160
2308932	Perfluoropentanoic acid (PFPeA)	148	104	P/P	30 - 160
2308932	Perfluoropropanesulfonic acid (PFPrS)	88.2	84.9	P/P	30 - 160
2308932	Perfluorotetradecanoic acid (PFTeA)	153	141	P/P	30 - 160
2308932	Perfluorotridecanoic acid (PFTriA)	157	152	P/P	30 - 160
2308932	Perfluoroundecanoic acid (PFUnA)	105	114	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309268	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	81.9	79.4	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	107	84.3	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	94.6	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	94.4	P/P	30 - 160
2309268	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	125	123	P/P	30 - 160
2309268	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	106	95.0	P/P	30 - 160
2309268	Hexafluoropropylene oxide dimer acid (HFPO-DA)	62.5	103	P/P	30 - 160
2309268	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	110	103	P/P	30 - 160
2309268	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106	88.0	P/P	30 - 160
2309268	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	77.1	79.9	P/P	30 - 160
2309268	Perfluoro-1-hexane sulfonamide (FHxSA)	157	154	P/P	30 - 160
2309268	Perfluoro-1-octane sulfonamide (FOSA)	102	96.6	P/P	30 - 160
2309268	Perfluoro-3-methoxypropanoic acid (PFMPA)	105	105	P/P	30 - 160
2309268	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	91.6	84.5	P/P	30 - 160
2309268	Perfluoro-4-methoxybutanoic acid (PFMBA)	114	111	P/P	30 - 160
2309268	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	117	P/P	30 - 160
2309268	Perfluorobutanoic acid (PFBA)	93.9	96.9	P/P	30 - 160
2309268	Perfluorodecanesulfonic acid (PFDS)	90.0	88.2	P/P	30 - 160
2309268	Perfluorodecanoic acid (PFDA)	113	101	P/P	30 - 160
2309268	Perfluorododecanoic acid (PFDoA)	90.9	77.5	P/P	30 - 160
2309268	Perfluoroheptanesulfonic acid (PFHpS)	86.3	78.8	P/P	30 - 160
2309268	Perfluoroheptanoic acid (PFHpA)	103	99.6	P/P	30 - 160
2309268	Perfluorohexanesulfonic acid (PFHxS)	103	85.8	P/P	30 - 160
2309268	Perfluorononanesulfonic acid (PFNS)	104	95.3	P/P	30 - 160
2309268	Perfluorononanoic acid (PFNA)	72.6	89.5	P/P	30 - 160
2309268	Perfluorooctanoic acid (PFOA)	78.1	47.6	P/P	30 - 160
2309268	Perfluoropentanesulfonic acid (PFPeS)	109	108	P/P	30 - 160
2309268	Perfluoropropanesulfonic acid (PFPrS)	95.6	112	P/P	30 - 160
2309268	Perfluorotetradecanoic acid (PFTeA)	105	92.0	P/P	30 - 160
2309268	Perfluorotridecanoic acid (PFTriA)	96.4	114	P/P	30 - 160
2309268	Perfluoroundecanoic acid (PFUnA)	84.2	89.7	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410184

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2307657	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.46	Spike	P	0 - 30
2307657	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.51	Spike	P	0 - 30
2307657	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.4	Spike	P	0 - 30
2307657	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	10.7	Spike	P	0 - 30
2307657	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	10.9	Spike	P	0 - 30
2307657	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.61	Spike	P	0 - 30
2307657	Hexafluoropropylene oxide dimer acid (HFPO-DA)	21.6	Spike	P	0 - 30
2307657	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17.4	Spike	P	0 - 30
2307657	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.11	Spike	P	0 - 30
2307657	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.3	Spike	P	0 - 30
2307657	Perfluoro-1-butane sulfonamide (FBSA)	7.53	Spike	P	0 - 30
2307657	Perfluoro-1-hexane sulfonamide (FHxSA)	5.48	Spike	P	0 - 30
2307657	Perfluoro-1-octane sulfonamide (FOSA)	3.78	Spike	P	0 - 30
2307657	Perfluoro-3-methoxypropanoic acid (PFMPA)	16.1	Spike	P	0 - 30
2307657	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	9.64	Spike	P	0 - 30
2307657	Perfluoro-4-methoxybutanoic acid (PFMBA)	1.72	Spike	P	0 - 30
2307657	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.48	Spike	P	0 - 30
2307657	Perfluorobutanesulfonic acid (PFBS)	5.07	Spike	P	0 - 30
2307657	Perfluorobutanoic acid (PFBA)	3.40	Spike	P	0 - 30
2307657	Perfluorodecanesulfonic acid (PFDS)	13.2	Spike	P	0 - 30
2307657	Perfluorodecanoic acid (PFDA)	8.37	Spike	P	0 - 30
2307657	Perfluorododecanoic acid (PFDoA)	26.7	Spike	P	0 - 30
2307657	Perfluoroheptanesulfonic acid (PFHpS)	6.95	Spike	P	0 - 30
2307657	Perfluoroheptanoic acid (PFHpA)	3.81	Spike	P	0 - 30
2307657	Perfluorohexanesulfonic acid (PFHxS)	2.00	Spike	P	0 - 30
2307657	Perfluorohexanoic acid (PFHxA)	8.20	Spike	P	0 - 30
2307657	Perfluorononanesulfonic acid (PFNS)	6.47	Spike	P	0 - 30
2307657	Perfluorononanoic acid (PFNA)	27.9	Spike	P	0 - 30
2307657	Perfluorooctanesulfonic acid (PFOS)	2.63	Spike	P	0 - 30
2307657	Perfluorooctanoic acid (PFOA)	1.12	Spike	P	0 - 30
2307657	Perfluoropentanesulfonic acid (PFPeS)	1.47	Spike	P	0 - 30
2307657	Perfluoropentanoic acid (PFPeA)	0.896	Spike	P	0 - 30
2307657	Perfluoropropanesulfonic acid (PFPrS)	5.30	Spike	P	0 - 30
2307657	Perfluorotetradecanoic acid (PFTeA)	20.7	Spike	P	0 - 30
2307657	Perfluorotridecanoic acid (PFTriA)	12.2	Spike	P	0 - 30
2307657	Perfluoroundecanoic acid (PFUnA)	10.1	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.56	LCS	P	0 - 30
LFB	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	4.96	LCS	P	0 - 30
LFB	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	13.9	LCS	P	0 - 30
LFB	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.2	LCS	P	0 - 30
LFB	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.82	LCS	P	0 - 30
LFB	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	9.56	LCS	P	0 - 30
LFB	Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.08	LCS	P	0 - 30
LFB	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	7.10	LCS	P	0 - 30
LFB	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.67	LCS	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410386

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
LFB	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	11.6	LCS	P	0 - 30
LFB	Perfluoro-1-butane sulfonamide (FBSA)	1.83	LCS	P	0 - 30
LFB	Perfluoro-1-hexane sulfonamide (FHxSA)	1.45	LCS	P	0 - 30
LFB	Perfluoro-1-octane sulfonamide (FOSA)	2.09	LCS	P	0 - 30
LFB	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.98	LCS	P	0 - 30
LFB	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	1.31	LCS	P	0 - 30
LFB	Perfluoro-4-methoxybutanoic acid (PFMBA)	7.41	LCS	P	0 - 30
LFB	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.81	LCS	P	0 - 30
LFB	Perfluorobutanesulfonic acid (PFBS)	4.57	LCS	P	0 - 30
LFB	Perfluorobutanoic acid (PFBA)	4.30	LCS	P	0 - 30
LFB	Perfluorodecanesulfonic acid (PFDS)	0.664	LCS	P	0 - 30
LFB	Perfluorodecanoic acid (PFDA)	1.76	LCS	P	0 - 30
LFB	Perfluorododecanoic acid (PFDoA)	29.8	LCS	P	0 - 30
LFB	Perfluoroheptanesulfonic acid (PFHpS)	6.38	LCS	P	0 - 30
LFB	Perfluoroheptanoic acid (PFHpA)	11.2	LCS	P	0 - 30
LFB	Perfluorohexanesulfonic acid (PFHxS)	0.255	LCS	P	0 - 30
LFB	Perfluorohexanoic acid (PFHxA)	12.0	LCS	P	0 - 30
LFB	Perfluorononanesulfonic acid (PFNS)	3.24	LCS	P	0 - 30
LFB	Perfluorononanoic acid (PFNA)	6.54	LCS	P	0 - 30
LFB	Perfluorooctanesulfonic acid (PFOS)	0.643	LCS	P	0 - 30
LFB	Perfluorooctanoic acid (PFOA)	12.2	LCS	P	0 - 30
LFB	Perfluoropentanesulfonic acid (PFPeS)	5.77	LCS	P	0 - 30
LFB	Perfluoropentanoic acid (PFPeA)	0.684	LCS	P	0 - 30
LFB	Perfluoropropanesulfonic acid (PFPrS)	0.671	LCS	P	0 - 30
LFB	Perfluorotetradecanoic acid (PFTeA)	11.0	LCS	P	0 - 30
LFB	Perfluorotridecanoic acid (PFTriA)	2.79	LCS	P	0 - 30
LFB	Perfluoroundecanoic acid (PFUnA)	2.87	LCS	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P410387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308434	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.167	Spike	P	0 - 35
2308434	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	20.3	Spike	P	0 - 35
2308434	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	19.6	Spike	P	0 - 35
2308434	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.91	Spike	P	0 - 35
2308434	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.468	Spike	P	0 - 35
2308434	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	4.40	Spike	P	0 - 35
2308434	Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.86	Spike	P	0 - 35
2308434	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.83	Spike	P	0 - 35
2308434	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.71	Spike	P	0 - 35
2308434	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	5.21	Spike	P	0 - 35
2308434	Perfluoro-1-butane sulfonamide (FBSA)	11.8	Spike	P	0 - 35
2308434	Perfluoro-1-hexane sulfonamide (FHxSA)	13.3	Spike	P	0 - 35
2308434	Perfluoro-1-octane sulfonamide (FOSA)	4.17	Spike	P	0 - 35
2308434	Perfluoro-3-methoxypropanoic acid (PFMPA)	1.13	Spike	P	0 - 35
2308434	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	16.5	Spike	P	0 - 35
2308434	Perfluoro-4-methoxybutanoic acid (PFMBA)	1.02	Spike	P	0 - 35
2308434	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.03	Spike	P	0 - 35
2308434	Perfluorobutanesulfonic acid (PFBS)	25.2	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410387

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308434	Perfluorobutanoic acid (PFBA)	3.62	Spike	P	0 - 35
2308434	Perfluorodecanesulfonic acid (PFDS)	8.42	Spike	P	0 - 35
2308434	Perfluorodecanoic acid (PFDA)	7.51	Spike	P	0 - 35
2308434	Perfluorododecanoic acid (PFDoA)	16.4	Spike	P	0 - 35
2308434	Perfluoroheptanesulfonic acid (PFHpS)	10.9	Spike	P	0 - 35
2308434	Perfluoroheptanoic acid (PFHpA)	2.49	Spike	P	0 - 35
2308434	Perfluorohexanesulfonic acid (PFHxS)	1.24	Spike	P	0 - 35
2308434	Perfluorohexanoic acid (PFHxA)	12.2	Spike	P	0 - 35
2308434	Perfluorononanesulfonic acid (PFNS)	1.04	Spike	P	0 - 35
2308434	Perfluorononanoic acid (PFNA)	19.4	Spike	P	0 - 35
2308434	Perfluorooctanesulfonic acid (PFOS)	4.15	Spike	P	0 - 35
2308434	Perfluorooctanoic acid (PFOA)	1.57	Spike	P	0 - 35
2308434	Perfluoropentanesulfonic acid (PFPeS)	21.9	Spike	P	0 - 35
2308434	Perfluoropentanoic acid (PFPeA)	3.37	Spike	P	0 - 35
2308434	Perfluoropropanesulfonic acid (PFPrS)	17.9	Spike	P	0 - 35
2308434	Perfluorotetradecanoic acid (PFTeA)	16.5	Spike	P	0 - 35
2308434	Perfluorotridecanoic acid (PFTriA)	14.4	Spike	P	0 - 35
2308434	Perfluoroundecanoic acid (PFUnA)	11.9	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P410388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308454	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	13.1	Spike	P	0 - 35
2308454	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	5.23	Spike	P	0 - 35
2308454	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.13	Spike	P	0 - 35
2308454	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16.1	Spike	P	0 - 35
2308454	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.81	Spike	P	0 - 35
2308454	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	14.6	Spike	P	0 - 35
2308454	Hexafluoropropylene oxide dimer acid (HFPO-DA)	15.8	Spike	P	0 - 35
2308454	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.27	Spike	P	0 - 35
2308454	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.34	Spike	P	0 - 35
2308454	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.7	Spike	P	0 - 35
2308454	Perfluoro-1-butane sulfonamide (FBSA)	0.358	Spike	P	0 - 35
2308454	Perfluoro-1-hexane sulfonamide (FHxSA)	8.50	Spike	P	0 - 35
2308454	Perfluoro-1-octane sulfonamide (FOSA)	2.24	Spike	P	0 - 35
2308454	Perfluoro-3-methoxypropanoic acid (PFMPA)	21.8	Spike	P	0 - 35
2308454	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	15.1	Spike	P	0 - 35
2308454	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.24	Spike	P	0 - 35
2308454	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	2.91	Spike	P	0 - 35
2308454	Perfluorobutanesulfonic acid (PFBS)	0.0920	Spike	P	0 - 35
2308454	Perfluorobutanoic acid (PFBA)	11.0	Spike	P	0 - 35
2308454	Perfluorodecanesulfonic acid (PFDS)	3.86	Spike	P	0 - 35
2308454	Perfluorodecanoic acid (PFDA)	18.3	Spike	P	0 - 35
2308454	Perfluorododecanoic acid (PFDoA)	19.2	Spike	P	0 - 35
2308454	Perfluoroheptanesulfonic acid (PFHpS)	14.8	Spike	P	0 - 35
2308454	Perfluoroheptanoic acid (PFHpA)	13.6	Spike	P	0 - 35
2308454	Perfluorohexanesulfonic acid (PFHxS)	9.62	Spike	P	0 - 35
2308454	Perfluorohexanoic acid (PFHxA)	6.53	Spike	P	0 - 35
2308454	Perfluorononanesulfonic acid (PFNS)	9.93	Spike	P	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410388

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308454	Perfluorononanoic acid (PFNA)	18.0	Spike	P	0 - 35
2308454	Perfluorooctanesulfonic acid (PFOS)	5.88	Spike	P	0 - 35
2308454	Perfluorooctanoic acid (PFOA)	1.78	Spike	P	0 - 35
2308454	Perfluoropentanesulfonic acid (PFPeS)	1.76	Spike	P	0 - 35
2308454	Perfluoropentanoic acid (PFPeA)	1.18	Spike	P	0 - 35
2308454	Perfluoropropanesulfonic acid (PFPrS)	10.9	Spike	P	0 - 35
2308454	Perfluorotetradecanoic acid (PFTeA)	1.26	Spike	P	0 - 35
2308454	Perfluorotridecanoic acid (PFTriA)	12.7	Spike	P	0 - 35
2308454	Perfluoroundecanoic acid (PFUnA)	10.3	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P410389

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308564	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	4.57	Spike	P	0 - 35
2308564	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.542	Spike	P	0 - 35
2308564	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	12.4	Spike	P	0 - 35
2308564	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	3.50	Spike	P	0 - 35
2308564	4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	5.42	Spike	P	0 - 35
2308564	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	8.37	Spike	P	0 - 35
2308564	Hexafluoropropylene oxide dimer acid (HFPO-DA)	3.11	Spike	P	0 - 35
2308564	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.95	Spike	P	0 - 35
2308564	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.56	Spike	P	0 - 35
2308564	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.47	Spike	P	0 - 35
2308564	Perfluoro-1-butane sulfonamide (FBSA)	8.90	Spike	P	0 - 35
2308564	Perfluoro-1-hexane sulfonamide (FHxSA)	7.47	Spike	P	0 - 35
2308564	Perfluoro-1-octane sulfonamide (FOSA)	5.19	Spike	P	0 - 35
2308564	Perfluoro-3-methoxypropanoic acid (PFMPA)	7.53	Spike	P	0 - 35
2308564	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	2.40	Spike	P	0 - 35
2308564	Perfluoro-4-methoxybutanoic acid (PFMBA)	23.0	Spike	P	0 - 35
2308564	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	13.8	Spike	P	0 - 35
2308564	Perfluorobutanesulfonic acid (PFBS)	9.52	Spike	P	0 - 35
2308564	Perfluorobutanoic acid (PFBA)	5.02	Spike	P	0 - 35
2308564	Perfluorodecanesulfonic acid (PFDS)	0.869	Spike	P	0 - 35
2308564	Perfluorodecanoic acid (PFDA)	4.47	Spike	P	0 - 35
2308564	Perfluorododecanoic acid (PFDoA)	0.0963	Spike	P	0 - 35
2308564	Perfluoroheptanesulfonic acid (PFHpS)	7.55	Spike	P	0 - 35
2308564	Perfluoroheptanoic acid (PFHpA)	4.22	Spike	P	0 - 35
2308564	Perfluorohexanesulfonic acid (PFHxS)	8.55	Spike	P	0 - 35
2308564	Perfluorohexanoic acid (PFHxA)	12.1	Spike	P	0 - 35
2308564	Perfluorononanesulfonic acid (PFNS)	0.162	Spike	P	0 - 35
2308564	Perfluorononanoic acid (PFNA)	13.4	Spike	P	0 - 35
2308564	Perfluorooctanesulfonic acid (PFOS)	2.44	Spike	P	0 - 35
2308564	Perfluorooctanoic acid (PFOA)	6.56	Spike	P	0 - 35
2308564	Perfluoropentanesulfonic acid (PFPeS)	13.5	Spike	P	0 - 35
2308564	Perfluoropentanoic acid (PFPeA)	5.30	Spike	P	0 - 35
2308564	Perfluoropropanesulfonic acid (PFPrS)	11.1	Spike	P	0 - 35
2308564	Perfluorotetradecanoic acid (PFTeA)	5.97	Spike	P	0 - 35
2308564	Perfluorotridecanoic acid (PFTriA)	4.03	Spike	P	0 - 35
2308564	Perfluoroundecanoic acid (PFUnA)	54.0	Spike	F	0 - 35

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410390

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308608	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	5.00	Spike	P	0 - 35
2308608	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.33	Spike	P	0 - 35
2308608	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.92	Spike	P	0 - 35
2308608	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.52	Spike	P	0 - 35
2308608	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.97	Spike	P	0 - 35
2308608	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.7	Spike	P	0 - 35
2308608	Hexafluoropropylene oxide dimer acid (HFPO-DA)	18.0	Spike	P	0 - 35
2308608	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.42	Spike	P	0 - 35
2308608	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.49	Spike	P	0 - 35
2308608	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.971	Spike	P	0 - 35
2308608	Perfluoro-1-butane sulfonamide (FBSA)	0.621	Spike	P	0 - 35
2308608	Perfluoro-1-hexane sulfonamide (FHxSA)	3.83	Spike	P	0 - 35
2308608	Perfluoro-1-octane sulfonamide (FOSA)	0.999	Spike	P	0 - 35
2308608	Perfluoro-3-methoxypropanoic acid (PFMPA)	9.86	Spike	P	0 - 35
2308608	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	15.4	Spike	P	0 - 35
2308608	Perfluoro-4-methoxybutanoic acid (PFMBA)	8.66	Spike	P	0 - 35
2308608	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	11.5	Spike	P	0 - 35
2308608	Perfluorobutanesulfonic acid (PFBS)	10.4	Spike	P	0 - 35
2308608	Perfluorobutanoic acid (PFBA)	7.72	Spike	P	0 - 35
2308608	Perfluorodecanesulfonic acid (PFDS)	0.520	Spike	P	0 - 35
2308608	Perfluorodecanoic acid (PFDA)	22.6	Spike	P	0 - 35
2308608	Perfluorododecanoic acid (PFDoA)	1.36	Spike	P	0 - 35
2308608	Perfluoroheptanesulfonic acid (PFHpS)	2.09	Spike	P	0 - 35
2308608	Perfluoroheptanoic acid (PFHpA)	5.84	Spike	P	0 - 35
2308608	Perfluorohexanesulfonic acid (PFHxS)	4.61	Spike	P	0 - 35
2308608	Perfluorohexanoic acid (PFHxA)	20.0	Spike	P	0 - 35
2308608	Perfluorononanesulfonic acid (PFNS)	1.30	Spike	P	0 - 35
2308608	Perfluorononanoic acid (PFNA)	16.9	Spike	P	0 - 35
2308608	Perfluorooctanesulfonic acid (PFOS)	2.53	Spike	P	0 - 35
2308608	Perfluorooctanoic acid (PFOA)	4.69	Spike	P	0 - 35
2308608	Perfluoropentanesulfonic acid (PFPeS)	11.6	Spike	P	0 - 35
2308608	Perfluoropentanoic acid (PFPeA)	5.64	Spike	P	0 - 35
2308608	Perfluoropropanesulfonic acid (PFPrS)	11.9	Spike	P	0 - 35
2308608	Perfluorotetradecanoic acid (PFTeA)	0.572	Spike	P	0 - 35
2308608	Perfluorotridecanoic acid (PFTriA)	5.98	Spike	P	0 - 35
2308608	Perfluoroundecanoic acid (PFUnA)	2.98	Spike	P	0 - 35

Reference Method: DEP SOP: LC-001-3

Batch ID: P410582

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308932	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	25.4	Spike	P	0 - 30
2308932	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.26	Spike	P	0 - 30
2308932	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.64	Spike	P	0 - 30
2308932	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	20.1	Spike	P	0 - 30
2308932	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	17.2	Spike	P	0 - 30
2308932	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	25.5	Spike	P	0 - 30
2308932	Hexafluoropropylene oxide dimer acid (HFPO-DA)	2.23	Spike	P	0 - 30
2308932	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.51	Spike	P	0 - 30
2308932	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	7.12	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410582

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2308932	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.90	Spike	P	0 - 30
2308932	Perfluoro-1-butane sulfonamide (FBSA)	2.12	Spike	P	0 - 30
2308932	Perfluoro-1-hexane sulfonamide (FHxSA)	7.20	Spike	P	0 - 30
2308932	Perfluoro-1-octane sulfonamide (FOSA)	3.72	Spike	P	0 - 30
2308932	Perfluoro-3-methoxypropanoic acid (PFMPA)	14.9	Spike	P	0 - 30
2308932	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	9.93	Spike	P	0 - 30
2308932	Perfluoro-4-methoxybutanoic acid (PFMBA)	33.6	Spike	F	0 - 30
2308932	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	3.42	Spike	P	0 - 30
2308932	Perfluorobutanesulfonic acid (PFBS)	1.28	Spike	P	0 - 30
2308932	Perfluorobutanoic acid (PFBA)	6.31	Spike	P	0 - 30
2308932	Perfluorodecanesulfonic acid (PFDS)	5.36	Spike	P	0 - 30
2308932	Perfluorodecanoic acid (PFDA)	17.3	Spike	P	0 - 30
2308932	Perfluorododecanoic acid (PFDoA)	14.4	Spike	P	0 - 30
2308932	Perfluoroheptanesulfonic acid (PFHpS)	2.23	Spike	P	0 - 30
2308932	Perfluoroheptanoic acid (PFHpA)	11.2	Spike	P	0 - 30
2308932	Perfluorohexanesulfonic acid (PFHxS)	1.45	Spike	P	0 - 30
2308932	Perfluorohexanoic acid (PFHxA)	1.72	Spike	P	0 - 30
2308932	Perfluorononanesulfonic acid (PFNS)	28.8	Spike	P	0 - 30
2308932	Perfluorononanoic acid (PFNA)	15.3	Spike	P	0 - 30
2308932	Perfluorooctanesulfonic acid (PFOS)	8.51	Spike	P	0 - 30
2308932	Perfluorooctanoic acid (PFOA)	3.83	Spike	P	0 - 30
2308932	Perfluoropentanesulfonic acid (PFPeS)	9.28	Spike	P	0 - 30
2308932	Perfluoropentanoic acid (PFPeA)	15.1	Spike	P	0 - 30
2308932	Perfluoropropanesulfonic acid (PFPrS)	3.81	Spike	P	0 - 30
2308932	Perfluorotetradecanoic acid (PFTeA)	7.76	Spike	P	0 - 30
2308932	Perfluorotridecanoic acid (PFTriA)	3.63	Spike	P	0 - 30
2308932	Perfluoroundecanoic acid (PFUnA)	8.78	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309268	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.10	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	24.1	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.89	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.13	Spike	P	0 - 30
2309268	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.86	Spike	P	0 - 30
2309268	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.4	Spike	P	0 - 30
2309268	Hexafluoropropylene oxide dimer acid (HFPO-DA)	49.2	Spike	F	0 - 30
2309268	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	6.60	Spike	P	0 - 30
2309268	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	Spike	P	0 - 30
2309268	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.57	Spike	P	0 - 30
2309268	Perfluoro-1-butane sulfonamide (FBSA)	0.337	Spike	P	0 - 30
2309268	Perfluoro-1-hexane sulfonamide (FHxSA)	1.87	Spike	P	0 - 30
2309268	Perfluoro-1-octane sulfonamide (FOSA)	5.34	Spike	P	0 - 30
2309268	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.476	Spike	P	0 - 30
2309268	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.06	Spike	P	0 - 30
2309268	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.93	Spike	P	0 - 30
2309268	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.44	Spike	P	0 - 30
2309268	Perfluorobutanesulfonic acid (PFBS)	3.98	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309268	Perfluorobutanoic acid (PFBA)	1.59	Spike	P	0 - 30
2309268	Perfluorodecanesulfonic acid (PFDS)	2.02	Spike	P	0 - 30
2309268	Perfluorodecanoic acid (PFDA)	11.2	Spike	P	0 - 30
2309268	Perfluorododecanoic acid (PFDoA)	15.9	Spike	P	0 - 30
2309268	Perfluoroheptanesulfonic acid (PFHpS)	9.09	Spike	P	0 - 30
2309268	Perfluoroheptanoic acid (PFHpA)	1.67	Spike	P	0 - 30
2309268	Perfluorohexanesulfonic acid (PFHxS)	9.74	Spike	P	0 - 30
2309268	Perfluorohexanoic acid (PFHxA)	0.115	Spike	P	0 - 30
2309268	Perfluorononanesulfonic acid (PFNS)	9.21	Spike	P	0 - 30
2309268	Perfluorononanoic acid (PFNA)	17.3	Spike	P	0 - 30
2309268	Perfluorooctanesulfonic acid (PFOS)	3.92	Spike	P	0 - 30
2309268	Perfluorooctanoic acid (PFOA)	13.2	Spike	P	0 - 30
2309268	Perfluoropentanesulfonic acid (PFPeS)	1.18	Spike	P	0 - 30
2309268	Perfluoropentanoic acid (PFPeA)	3.31	Spike	P	0 - 30
2309268	Perfluoropropanesulfonic acid (PFPrS)	15.9	Spike	P	0 - 30
2309268	Perfluorotetradecanoic acid (PFTeA)	13.2	Spike	P	0 - 30
2309268	Perfluorotridecanoic acid (PFTriA)	16.6	Spike	P	0 - 30
2309268	Perfluoroundecanoic acid (PFUnA)	6.33	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2308408

Field Sample ID: DEPMW-19 (45-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	156	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.2	P	30 - 160

Lab Sample ID: 2308409

Field Sample ID: DEPMW-2 (35-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	159	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.1	P	30 - 160

Lab Sample ID: 2308410

Field Sample ID: DEPMW-2 (35-55') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2308411

Field Sample ID: EQB-71

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	148	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.3	P	30 - 160

Lab Sample ID: 2308412

Field Sample ID: DEPMW-15 (35-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	99.2	P	30 - 160

Lab Sample ID: 2308413

Field Sample ID: DEPMW-6 (100-120')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.2	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2308413

Field Sample ID: DEPMW-6 (100-120')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.0	P	30 - 160

Lab Sample ID: 2308414

Field Sample ID: DEPMW-9 (40-60')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.4	P	30 - 160

Lab Sample ID: 2308415

Field Sample ID: FRB-34

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	76.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.5	P	30 - 160

Lab Sample ID: 2308416

Field Sample ID: FRB-33

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.9	P	30 - 160

Lab Sample ID: 2308417

Field Sample ID: EQB-72

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	79.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.5	P	30 - 160

Lab Sample ID: 2308418

Field Sample ID: EQB-73

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	88.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	109	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2308418
Field Sample ID: EQB-73

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.0	P	30 - 160

Lab Sample ID: 2308419
Field Sample ID: EQB-74

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	97.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.6	P	30 - 160

Lab Sample ID: 2308420
Field Sample ID: EQB-75

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.4	P	30 - 160

Lab Sample ID: 2308434
Field Sample ID: SB-289 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	51.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	72.3	P	30 - 160

Lab Sample ID: 2308435
Field Sample ID: SB-289 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	158	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	82.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.3	P	30 - 160

Lab Sample ID: 2308436
Field Sample ID: SB-289 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	134	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	83.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	134	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.7	P	30 - 160

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Lab Sample ID: 2308437

Field Sample ID: SB-290 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	142	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	81.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.4	P	30 - 160

Lab Sample ID: 2308438

Field Sample ID: SB-290 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.3	P	30 - 160

Lab Sample ID: 2308439

Field Sample ID: SB-290 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	156	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	112	P	30 - 160

Lab Sample ID: 2308440

Field Sample ID: SB-291 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	70.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.3	P	30 - 160

Lab Sample ID: 2308441

Field Sample ID: SB-291 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	142	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	77.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.4	P	30 - 160

Lab Sample ID: 2308442

Field Sample ID: SB-291 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.6	P	30 - 160

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Lab Sample ID: 2308442

Field Sample ID: SB-291 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	62.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	147	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.7	P	30 - 160

Lab Sample ID: 2308443

Field Sample ID: SB-292 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	138	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	115	P	30 - 160

Lab Sample ID: 2308444

Field Sample ID: SB-292 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	133	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.5	P	30 - 160

Lab Sample ID: 2308445

Field Sample ID: SB-292 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.2	P	30 - 160

Lab Sample ID: 2308446

Field Sample ID: SB-293 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2308447

Field Sample ID: SB-293 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	133	P	30 - 160

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Lab Sample ID: 2308447
Field Sample ID: SB-293 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.6	P	30 - 160

Lab Sample ID: 2308448
Field Sample ID: SB-293 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	86.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	99.5	P	30 - 160

Lab Sample ID: 2308449
Field Sample ID: SB-294 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	72.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.0	P	30 - 160

Lab Sample ID: 2308450
Field Sample ID: SB-294 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	90.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.7	P	30 - 160

Lab Sample ID: 2308451
Field Sample ID: SB-294 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	140	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.7	P	30 - 160

Lab Sample ID: 2308452
Field Sample ID: SB-295 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	92.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.4	P	30 - 160

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Lab Sample ID: 2308453

Field Sample ID: SB-295 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2308454

Field Sample ID: SB-295 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	98.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.2	P	30 - 160

Lab Sample ID: 2308455

Field Sample ID: SB-296 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	99.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	82.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	111	P	30 - 160

Lab Sample ID: 2308456

Field Sample ID: SB-296 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	90.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	79.0	P	30 - 160

Lab Sample ID: 2308457

Field Sample ID: SB-296 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.6	P	30 - 160

Lab Sample ID: 2308458

Field Sample ID: SB-297 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160

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Lab Sample ID: 2308458

Field Sample ID: SB-297 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2308459

Field Sample ID: SB-297 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	90.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.9	P	30 - 160

Lab Sample ID: 2308460

Field Sample ID: SB-297 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	70.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	81.2	P	30 - 160

Lab Sample ID: 2308461

Field Sample ID: SB-298 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	66.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.8	P	30 - 160

Lab Sample ID: 2308462

Field Sample ID: SB-298 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	80.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	67.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.9	P	30 - 160

Lab Sample ID: 2308463

Field Sample ID: SB-298 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	115	P	30 - 160

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Lab Sample ID: 2308463

Field Sample ID: SB-298 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.3	P	30 - 160

Lab Sample ID: 2308524

Field Sample ID: SP-30 (41-45')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	101	P	30 - 160

Lab Sample ID: 2308525

Field Sample ID: SP-30 (51-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.9	P	30 - 160

Lab Sample ID: 2308526

Field Sample ID: SP-30 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2308527

Field Sample ID: SP-30 (61-65') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.4	P	30 - 160

Lab Sample ID: 2308528

Field Sample ID: SP-30 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	98.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

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Lab Sample ID: 2308529

Field Sample ID: SP-30 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	112	P	30 - 160

Lab Sample ID: 2308530

Field Sample ID: SP-30 (89-93')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	136	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.9	P	30 - 160

Lab Sample ID: 2308531

Field Sample ID: EQB-80

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.4	P	30 - 160

Lab Sample ID: 2308532

Field Sample ID: SP-29 (41-45')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.5	P	30 - 160

Lab Sample ID: 2308533

Field Sample ID: SP-29 (51-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	92.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.3	P	30 - 160

Lab Sample ID: 2308534

Field Sample ID: SP-29 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160

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Lab Sample ID: 2308534

Field Sample ID: SP-29 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.4	P	30 - 160

Lab Sample ID: 2308535

Field Sample ID: SP-29 (61-65') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	133	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.4	P	30 - 160

Lab Sample ID: 2308536

Field Sample ID: SP-29 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2308537

Field Sample ID: SP-29 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.7	P	30 - 160

Lab Sample ID: 2308538

Field Sample ID: SP-29 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	106	P	30 - 160

Lab Sample ID: 2308554

Field Sample ID: SB-307 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	44.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	84.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	115	P	30 - 160

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Lab Sample ID: 2308554
Field Sample ID: SB-307 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.3	P	30 - 160

Lab Sample ID: 2308555
Field Sample ID: SB-307 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	60.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.2	P	30 - 160

Lab Sample ID: 2308556
Field Sample ID: SB-307 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	89.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.0	P	30 - 160

Lab Sample ID: 2308557
Field Sample ID: SB-307 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	80.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	81.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	107	P	30 - 160

Lab Sample ID: 2308558
Field Sample ID: SB-307 (6-8')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	148	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	86.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	64.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	97.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.7	P	30 - 160

Lab Sample ID: 2308559
Field Sample ID: SB-306 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	90.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.3	P	30 - 160

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Lab Sample ID: 2308560

Field Sample ID: SB-306 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	81.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2308561

Field Sample ID: SB-306 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	57.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	56.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2308562

Field Sample ID: SB-306 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	65.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	79.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.4	P	30 - 160

Lab Sample ID: 2308563

Field Sample ID: SB-306 (6-8')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	84.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	86.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.1	P	30 - 160

Lab Sample ID: 2308564

Field Sample ID: SB-305 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	93.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.8	P	30 - 160

Lab Sample ID: 2308565

Field Sample ID: SB-305 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	65.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160

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Lab Sample ID: 2308565

Field Sample ID: SB-305 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	64.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.7	P	30 - 160

Lab Sample ID: 2308566

Field Sample ID: SB-305 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	89.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.0	P	30 - 160

Lab Sample ID: 2308567

Field Sample ID: SB-305 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

Lab Sample ID: 2308568

Field Sample ID: SB-305 (6-8')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.2	P	30 - 160

Lab Sample ID: 2308569

Field Sample ID: SB-309 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.2	P	30 - 160

Lab Sample ID: 2308570

Field Sample ID: SB-309 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	98.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160

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Lab Sample ID: 2308570
Field Sample ID: SB-309 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.8	P	30 - 160

Lab Sample ID: 2308571
Field Sample ID: SB-309 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	85.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	94.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.0	P	30 - 160

Lab Sample ID: 2308572
Field Sample ID: EQB-76

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.6	P	30 - 160

Lab Sample ID: 2308573
Field Sample ID: EQB-77

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	159	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.4	P	30 - 160

Lab Sample ID: 2308574
Field Sample ID: EQB-78

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	148	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.3	P	30 - 160

Lab Sample ID: 2308596
Field Sample ID: SB-299 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	96.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	69.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

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Lab Sample ID: 2308597

Field Sample ID: SB-299 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	98.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.5	P	30 - 160

Lab Sample ID: 2308598

Field Sample ID: SB-299 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	97.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	76.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	105	P	30 - 160

Lab Sample ID: 2308599

Field Sample ID: SB-300 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	75.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.9	P	30 - 160

Lab Sample ID: 2308600

Field Sample ID: SB-300 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	66.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.4	P	30 - 160

Lab Sample ID: 2308601

Field Sample ID: SB-300 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.8	P	30 - 160

Lab Sample ID: 2308602

Field Sample ID: SB-301 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	92.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.9	P	30 - 160

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Lab Sample ID: 2308602
Field Sample ID: SB-301 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.3	P	30 - 160

Lab Sample ID: 2308603
Field Sample ID: SB-301 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	81.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	79.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.3	P	30 - 160

Lab Sample ID: 2308604
Field Sample ID: SB-302 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	95.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	87.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2308605
Field Sample ID: SB-302 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2308606
Field Sample ID: SB-302 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	94.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.3	P	30 - 160

Lab Sample ID: 2308607
Field Sample ID: SB-302 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	80.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.5	P	30 - 160

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Lab Sample ID: 2308607
Field Sample ID: SB-302 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.0	P	30 - 160

Lab Sample ID: 2308608
Field Sample ID: SB-302 (6-7')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	86.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.5	P	30 - 160

Lab Sample ID: 2308609
Field Sample ID: SB-303 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.2	P	30 - 160

Lab Sample ID: 2308610
Field Sample ID: SB-303 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2308611
Field Sample ID: SB-303 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

Lab Sample ID: 2308612
Field Sample ID: SB-303 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	69.4	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2308613

Field Sample ID: SB-303 (6-8')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	90.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.6	P	30 - 160

Lab Sample ID: 2308614

Field Sample ID: SB-304 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	84.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	116	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2308615

Field Sample ID: SB-304 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	98.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.4	P	30 - 160

Lab Sample ID: 2308616

Field Sample ID: SB-304 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	75.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.4	P	30 - 160

Lab Sample ID: 2308617

Field Sample ID: SB-308 (0-0.5')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	93.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.4	P	30 - 160

Lab Sample ID: 2308618

Field Sample ID: SB-308 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.9	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2308618

Field Sample ID: SB-308 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.2	P	30 - 160

Lab Sample ID: 2308619

Field Sample ID: SB-308 (2-4')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	80.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.6	P	30 - 160

Lab Sample ID: 2308620

Field Sample ID: SB-308 (4-6')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	76.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.5	P	30 - 160

Lab Sample ID: 2308621

Field Sample ID: SB-308 (6-8')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2308622

Field Sample ID: SB-304 (0.5-2')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	91.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.0	P	30 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110743

Included Lab Sample IDs: 2308564, 2308565, 2308566, 2308567, 2308568, 2308569, 2308570, 2308571, 2308596, 2308597, 2308598, 2308599, 2308600, 2308601, 2308602, 2308603, 2308604, 2308605, 2308606, 2308607, 2308608, 2308609, 2308610, 2308611, 2308612, 2308613, 2308614, 2308615, 2308616, 2308617, 2308618, 2308619, 2308620, 2308621, 2308622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	108	108	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	108	99.0	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114	106	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.9	108	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.3	114	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	99.0	94.3	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.8	96.2	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.2	97.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	100	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109	94.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	118	102	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	122	85.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.1	100	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	94.9	118	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	114	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.7	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	107	89.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	84.4	107	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	89.2	93.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.4	91.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.7	90.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	93.8	90.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	105	114	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	114	93.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	101	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	89.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	107	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.5	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	105	118	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	118	101	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127	146	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127	152	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	141	156	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	146	145	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152	127	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	156	127	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	125	148	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	148	155	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	111	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	115	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	114	127	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	115	114	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	118	111	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	127	118	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	111	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	118	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	102	111	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110743

Included Lab Sample IDs: 2308564, 2308565, 2308566, 2308567, 2308568, 2308569, 2308570, 2308571, 2308596, 2308597, 2308598, 2308599, 2308600, 2308601, 2308602, 2308603, 2308604, 2308605, 2308606, 2308607, 2308608, 2308609, 2308610, 2308611, 2308612, 2308613, 2308614, 2308615, 2308616, 2308617, 2308618, 2308619, 2308620, 2308621, 2308622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Hexafluoropropylene oxide dimer acid (HFPO-DA)	111	118	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	118	93.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.4	102	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	89.9	63.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.4	89.9	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	78.9	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.8	103	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104	104	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104	115	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	115	116	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	116	105	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	122	124	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	124	104	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	128	99.3	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.3	116	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	109	120	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	110	121	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114	96.1	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	120	114	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	123	109	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.1	110	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	105	90.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	90.9	107	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	110	154	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	132	138	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	134	110	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	154	77.3	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	77.3	132	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	78.5	134	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	124	110	P/P	60 - 160
Nonafluoro-3,6-dioxahheptanoic acid (NFDHA)	127	124	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	105	105	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	106	98.9	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	117	118	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	118	124	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	124	106	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	98.9	105	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	105	124	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	124	120	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	101	102	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	106	112	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	112	92.9	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	116	116	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	117	106	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	92.9	97.6	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	97.6	101	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	105	116	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	116	116	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	104	113	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110743

Included Lab Sample IDs: 2308564, 2308565, 2308566, 2308567, 2308568, 2308569, 2308570, 2308571, 2308596, 2308597, 2308598, 2308599, 2308600, 2308601, 2308602, 2308603, 2308604, 2308605, 2308606, 2308607, 2308608, 2308609, 2308610, 2308611, 2308612, 2308613, 2308614, 2308615, 2308616, 2308617, 2308618, 2308619, 2308620, 2308621, 2308622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-octane sulfonamide (FOSA)	104	106	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	104	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	101	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	106	98.5	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	96.0	104	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.5	105	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	104	105	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	101	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	104	84.3	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	81.7	86.0	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	83.6	81.7	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	84.3	87.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	86.0	85.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	87.4	83.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	90.2	98.8	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	98.8	96.1	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	70.9	78.6	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.3	92.0	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	78.6	74.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	78.8	70.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.5	86.6	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	92.0	82.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.3	81.8	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.8	88.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	61.6	67.6	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	63.7	68.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	65.7	62.2	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	67.6	65.7	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	68.5	61.6	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	86.0	63.7	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	109	82.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	67.3	109	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	104	120	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	108	114	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	110	123	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	114	130	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	123	104	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	130	110	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	102	117	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	114	102	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	104	96.4	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	111	95.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	114	92.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	92.1	111	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.8	112	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.4	114	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	111	89.9	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	89.9	103	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	105	110	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110743

Included Lab Sample IDs: 2308564, 2308565, 2308566, 2308567, 2308568, 2308569, 2308570, 2308571, 2308596, 2308597, 2308598, 2308599, 2308600, 2308601, 2308602, 2308603, 2308604, 2308605, 2308606, 2308607, 2308608, 2308609, 2308610, 2308611, 2308612, 2308613, 2308614, 2308615, 2308616, 2308617, 2308618, 2308619, 2308620, 2308621, 2308622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorobutanoic acid (PFBA)	107	105	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	110	110	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	110	106	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	110	113	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	113	110	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	110	110	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	114	110	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	102	96.9	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	108	104	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	108	102	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	109	108	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	92.0	109	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	96.9	108	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	102	102	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	92.6	102	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	100	105	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	105	95.1	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	76.1	94.8	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	88.9	100	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	94.8	88.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	95.1	75.6	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	114	97.0	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	97.0	83.9	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	114	81.3	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	72.5	114	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	81.3	83.7	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	83.7	95.4	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	90.4	99.9	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	99.9	72.5	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	110	91.2	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	91.2	105	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	72.2	74.0	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	73.1	72.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	74.0	85.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	74.5	74.7	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.7	73.1	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	85.3	74.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	73.0	81.8	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.7	73.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	113	97.9	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	121	94.4	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.4	121	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.5	106	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	94.4	113	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	97.9	93.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	120	97.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	97.8	98.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.2	97.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.5	97.7	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110743

Included Lab Sample IDs: 2308564, 2308565, 2308566, 2308567, 2308568, 2308569, 2308570, 2308571, 2308596, 2308597, 2308598, 2308599, 2308600, 2308601, 2308602, 2308603, 2308604, 2308605, 2308606, 2308607, 2308608, 2308609, 2308610, 2308611, 2308612, 2308613, 2308614, 2308615, 2308616, 2308617, 2308618, 2308619, 2308620, 2308621, 2308622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanesulfonic acid (PFHxS)	91.8	91.5	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.3	87.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.3	97.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.1	92.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.7	89.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.3	97.9	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	102	102	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	102	102	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	105	102	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	114	118	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	118	98.8	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	98.8	105	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	90.9	105	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	99.7	90.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	101	113	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	104	98.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	112	104	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	113	112	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	124	112	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	98.9	124	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	102	104	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	105	102	P/P	60 - 160
Perfluorononanoic acid (PFNA)	82.2	94.9	P/P	60 - 160
Perfluorononanoic acid (PFNA)	83.4	84.6	P/P	60 - 160
Perfluorononanoic acid (PFNA)	83.4	88.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	84.6	96.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	88.2	82.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	94.9	83.4	P/P	60 - 160
Perfluorononanoic acid (PFNA)	121	131	P/P	60 - 160
Perfluorononanoic acid (PFNA)	87.0	121	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	101	99.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	101	99.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	106	94.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	90.0	106	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	94.6	90.0	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	94.9	94.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	99.5	94.9	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	100	101	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	101	99.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	105	131	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	105	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	109	105	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	113	106	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	128	113	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	131	109	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	117	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	106	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	104	112	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	110	95.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110743

Included Lab Sample IDs: 2308564, 2308565, 2308566, 2308567, 2308568, 2308569, 2308570, 2308571, 2308596, 2308597, 2308598, 2308599, 2308600, 2308601, 2308602, 2308603, 2308604, 2308605, 2308606, 2308607, 2308608, 2308609, 2308610, 2308611, 2308612, 2308613, 2308614, 2308615, 2308616, 2308617, 2308618, 2308619, 2308620, 2308621, 2308622

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropentanesulfonic acid (PFPeS)	113	95.3	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	116	104	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	95.3	113	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	95.3	116	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	106	108	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	119	106	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	106	97.9	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	108	106	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	109	108	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	110	109	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	111	113	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	113	110	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	107	98.3	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	125	125	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	98.3	125	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	114	98.4	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	120	156	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	129	120	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	140	157	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	156	140	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	98.4	129	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	133	95.2	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	95.2	147	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	103	98.5	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	106	106	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	106	116	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	110	106	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	116	121	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	121	103	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	122	134	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	124	122	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	114	121	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	121	92.3	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	131	82.0	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	150	156	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	156	131	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	92.3	150	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	119	142	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	142	159	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	119	125	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	125	153	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	141	92.5	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	91.0	141	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	92.5	96.6	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	96.6	119	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	118	85.7	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	85.7	96.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110744

Included Lab Sample IDs: 2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	101	106	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	106	118	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	109	111	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	111	121	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	118	109	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	119	105	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	121	96.5	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	121	119	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.5	121	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	101	110	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	102	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	105	97.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.9	99.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.3	88.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.3	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.6	99.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	114	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	80.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	107	79.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	114	96.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	79.6	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	80.1	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.0	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	98.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	94.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	110	98.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	94.6	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.4	98.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.5	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.7	110	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	116	157	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	122	150	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	131	122	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	143	148	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	148	159	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	150	139	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153	143	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	157	153	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	159	131	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	109	116	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	112	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	112	90.9	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	115	130	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110744

Included Lab Sample IDs: 2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	115	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	122	109	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	130	111	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	90.9	122	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	96.7	120	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	63.8	91.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	73.5	97.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	78.8	63.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.9	95.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	83.1	73.5	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.4	83.1	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.2	82.9	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.4	95.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.8	78.8	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	105	127	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	109	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	111	128	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	117	105	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	119	120	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	120	109	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	127	98.0	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	128	117	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	98.0	119	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106	108	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	107	120	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108	118	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	113	106	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	115	124	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	118	127	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	120	113	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	127	138	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	138	115	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	112	124	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	122	67.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	124	103	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	124	142	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	137	112	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	142	124	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	142	122	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	152	142	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	67.0	137	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	111	115	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	112	139	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	113	111	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	115	112	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	128	124	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	130	128	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	138	140	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	139	130	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110744

Included Lab Sample IDs: 2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-butane sulfonamide (FBSA)	140	113	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	105	110	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	105	107	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	107	112	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	109	105	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	112	129	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	114	105	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	119	131	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	129	109	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	131	114	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	101	111	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	109	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	107	94.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	109	98.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	109	102	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	109	109	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	111	109	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	94.9	101	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.0	105	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	100	85.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	109	100	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110	81.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	81.4	86.1	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	85.6	100	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	86.1	89.5	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	86.4	109	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	89.5	94.4	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	94.4	86.4	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	65.1	88.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	71.1	84.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	72.7	93.1	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.4	71.1	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.9	85.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.5	72.7	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	85.3	84.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	88.9	77.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	93.1	75.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112	70.7	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	61.1	71.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	62.8	64.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	64.4	80.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	70.7	62.8	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	71.1	83.3	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	77.4	88.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	80.1	77.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	88.5	61.1	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	101	111	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	106	98.6	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	111	116	P/P	60 - 160

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Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110744

Included Lab Sample IDs: 2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	114	87.9	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	117	114	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	133	106	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	62.1	133	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	87.9	101	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	98.6	117	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	100	108	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	102	100	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	103	104	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	104	97.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	104	102	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	106	103	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	93.3	104	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.4	106	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	97.8	96.4	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	100	106	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	106	114	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	108	129	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	110	111	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	111	116	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	114	110	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	116	108	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	117	110	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	129	117	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	102	109	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	107	121	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	109	112	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	112	112	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	112	108	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	112	107	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	119	112	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	121	99.7	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	99.7	119	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	103	130	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	114	103	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	130	87.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	138	77.0	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	79.7	87.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	87.2	96.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	87.3	79.7	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	91.6	138	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	96.3	91.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	105	120	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	110	112	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	112	99.1	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	120	99.2	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	80.3	105	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	84.1	110	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	96.8	84.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110744

Included Lab Sample IDs: 2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorododecanoic acid (PFDoA)	99.1	120	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	99.2	96.8	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	69.2	80.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	69.5	81.7	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	71.2	86.8	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.6	69.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	77.9	78.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.4	93.0	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	80.4	71.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	86.8	77.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	93.0	75.6	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	111	94.9	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	116	91.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	128	91.1	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	87.1	116	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	91.1	95.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	91.5	96.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	94.9	87.1	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	95.7	111	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	96.7	103	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	101	86.6	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	107	89.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	86.6	93.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.8	101	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.9	97.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.7	99.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	95.6	107	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	97.7	97.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	99.8	95.6	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	101	102	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	102	89.5	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	102	97.5	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	104	102	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	105	107	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	107	104	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	132	65.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	65.0	101	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	97.5	105	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	102	111	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	106	95.2	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	106	102	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	107	106	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	111	106	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	118	107	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	89.5	118	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	93.3	106	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	95.2	89.5	P/P	60 - 160
Perfluorononanoic acid (PFNA)	101	103	P/P	60 - 160
Perfluorononanoic acid (PFNA)	103	114	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110744

Included Lab Sample IDs: 2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorononanoic acid (PFNA)	114	89.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	86.0	98.9	P/P	60 - 160
Perfluorononanoic acid (PFNA)	89.1	96.7	P/P	60 - 160
Perfluorononanoic acid (PFNA)	90.6	94.9	P/P	60 - 160
Perfluorononanoic acid (PFNA)	94.9	101	P/P	60 - 160
Perfluorononanoic acid (PFNA)	96.7	108	P/P	60 - 160
Perfluorononanoic acid (PFNA)	98.9	90.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	103	103	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	103	107	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	107	103	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	107	107	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	92.8	93.0	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	93.0	103	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	96.0	99.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	98.3	92.8	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	99.5	98.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	96.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	92.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	112	89.1	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	117	112	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	89.1	108	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	92.3	93.1	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	93.1	98.2	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	93.6	108	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.5	93.6	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	101	105	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	116	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	102	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	105	114	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	106	90.2	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	116	106	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	119	102	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	68.7	119	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	90.2	101	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	101	112	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	107	111	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	108	107	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	108	108	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	112	101	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	112	113	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	112	112	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	113	108	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	114	112	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	102	152	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	110	101	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	116	93.2	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	131	116	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	144	146	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	146	131	P/P	60 - 160

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Reference Method: DEP SOP: LC-001-3

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Included Lab Sample IDs: 2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropropanesulfonic acid (PFPrS)	152	110	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	82.7	144	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.2	102	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	106	117	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	117	124	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	123	123	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	123	134	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	123	106	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	124	123	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	124	123	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	126	111	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	134	126	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	106	119	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	116	120	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	117	125	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	119	116	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	119	119	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	120	134	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	125	117	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	128	106	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	134	117	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	102	122	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	113	141	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	113	113	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	119	92.4	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	122	94.4	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	89.1	113	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	89.2	89.1	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	92.4	89.2	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	94.4	119	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A110769

Included Lab Sample IDs: 2308409, 2308410, 2308415, 2308416, 2308417, 2308418, 2308419, 2308420, 2308524, 2308525, 2308526, 2308527, 2308528, 2308529, 2308530, 2308531, 2308532, 2308533, 2308534, 2308535, 2308536, 2308537, 2308538, 2308572, 2308573, 2308574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	107	99.3	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114	107	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120	114	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	90.0	98.8	P/P	60 - 160
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	98.4	90.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	103	93.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	106	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	85.9	97.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	86.8	85.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.7	96.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	101	84.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	105	101	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	109	90.1	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110769

Included Lab Sample IDs: 2308409, 2308410, 2308415, 2308416, 2308417, 2308418, 2308419, 2308420, 2308524, 2308525, 2308526, 2308527, 2308528, 2308529, 2308530, 2308531, 2308532, 2308533, 2308534, 2308535, 2308536, 2308537, 2308538, 2308572, 2308573, 2308574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.3	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.1	88.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	100	99.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	100	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	118	96.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.0	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.5	98.4	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	125	158	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	129	144	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	129	154	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	144	125	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	154	129	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	106	107	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	122	106	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	126	132	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	128	111	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	132	128	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	101	103	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	71.0	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	127	101	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.9	95.0	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.0	94.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	101	119	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	113	114	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	114	111	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	117	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	118	113	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	89.2	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101	106	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106	110	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	110	109	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.5	100	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	114	137	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	137	151	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	137	114	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	150	121	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151	150	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	120	130	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	123	117	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	130	123	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	86.5	97.0	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	97.0	99.8	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	99.8	120	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	117	120	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	119	120	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	120	117	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	83.1	113	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	83.5	91.2	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	91.2	93.8	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	93.8	119	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110769

Included Lab Sample IDs: 2308409, 2308410, 2308415, 2308416, 2308417, 2308418, 2308419, 2308420, 2308524, 2308525, 2308526, 2308527, 2308528, 2308529, 2308530, 2308531, 2308532, 2308533, 2308534, 2308535, 2308536, 2308537, 2308538, 2308572, 2308573, 2308574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-octane sulfonamide (FOSA)	100	98.3	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	100	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	108	99.0	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.3	103	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.0	105	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	103	98.8	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	107	90.9	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	107	97.6	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	108	103	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	97.6	107	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.6	82.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.7	82.2	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.3	85.9	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.6	80.7	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	85.9	80.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	65.0	67.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	65.2	65.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	67.5	76.7	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	98.8	77.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	99.4	98.8	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	103	118	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	110	109	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	118	119	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	118	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	110	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	100	104	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	103	99.4	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	107	104	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	111	100	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	99.4	107	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	107	109	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	108	107	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	112	108	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	112	105	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	121	112	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	103	93.1	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	107	103	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	117	122	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	122	107	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	93.1	97.5	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	106	88.4	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	76.1	104	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	79.8	76.1	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	88.4	86.0	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	90.4	79.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	83.0	87.4	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	87.4	90.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	89.4	88.5	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	90.6	84.7	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	91.7	89.4	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110769

Included Lab Sample IDs: 2308409, 2308410, 2308415, 2308416, 2308417, 2308418, 2308419, 2308420, 2308524, 2308525, 2308526, 2308527, 2308528, 2308529, 2308530, 2308531, 2308532, 2308533, 2308534, 2308535, 2308536, 2308537, 2308538, 2308572, 2308573, 2308574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	71.3	74.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	73.9	78.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	74.9	73.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.2	77.0	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.5	75.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	102	97.9	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	113	90.9	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	87.8	102	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.3	113	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	99.1	87.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	82.7	89.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.0	91.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.2	87.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.3	93.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.9	91.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.9	91.9	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	102	112	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	103	100	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	112	101	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	95.7	96.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	96.1	103	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	104	93.2	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	117	99.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	123	117	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	130	123	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	93.2	105	P/P	60 - 160
Perfluorononanoic acid (PFNA)	102	81.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	107	79.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	108	107	P/P	60 - 160
Perfluorononanoic acid (PFNA)	79.8	94.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	81.1	115	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	105	99.2	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	108	86.1	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	86.1	96.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	92.4	93.6	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	93.6	108	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	99.2	92.4	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	107	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	107	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	107	107	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	108	117	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	117	106	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	102	109	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	108	117	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	109	117	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	117	108	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	93.1	99.8	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	99.8	102	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	103	119	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	112	99.3	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110769

Included Lab Sample IDs: 2308409, 2308410, 2308415, 2308416, 2308417, 2308418, 2308419, 2308420, 2308524, 2308525, 2308526, 2308527, 2308528, 2308529, 2308530, 2308531, 2308532, 2308533, 2308534, 2308535, 2308536, 2308537, 2308538, 2308572, 2308573, 2308574

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropentanoic acid (PFPeA)	114	112	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	119	98.4	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	98.4	117	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	122	71.7	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	154	134	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	154	154	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	158	154	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	71.7	99.4	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	104	101	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	106	117	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	106	106	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	117	106	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	122	104	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	122	158	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	136	122	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	145	151	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	149	145	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	157	149	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	106	136	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	108	106	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	110	88.7	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	111	108	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	88.7	118	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A110839

Included Lab Sample IDs: 2308411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.6	84.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.4	90.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.5	88.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	111	148	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	101	110	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.0	85.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.6	97.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101	91.8	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	97.2	105	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	140	134	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	99.7	131	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.2	102	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110	108	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.1	87.3	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	104	101	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	130	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.1	98.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	115	123	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	116	103	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	89.3	73.6	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110839

Included Lab Sample IDs: 2308411

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorododecanoic acid (PFDoA)	70.2	82.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	71.0	73.4	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	108	93.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.6	92.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	98.3	94.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	114	109	P/P	60 - 160
Perfluorononanoic acid (PFNA)	86.4	105	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	84.1	93.4	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	116	119	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	67.5	116	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	100	115	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	94.6	71.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	98.4	82.2	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	133	140	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.7	108	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	84.0		64.7	62.5			3.46
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	104	107	113		2.56		
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	125		120	120			0.167
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	132		141	124			13.1
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114		128	134			4.57
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	120		111	117			5.00
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	80.4		86.2	66.8			25.4
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0		81.9	79.4			3.10
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	111		114	117			2.51
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	114	120	125		4.96		
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	129		112	91.2			20.3
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	121		123	130			5.23
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	108		111	110			0.542
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	112		109	106			2.33
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	132		102	104			1.26
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.2		107	84.3			24.1
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100		97.6	109			11.4
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.7	112	120		13.9		
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	116		118	96.6			19.6
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		110	102			8.13
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103		115	102			12.4
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	117		97.6	105			6.92
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	106		108	115			6.64
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		103	94.6			8.89
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	114		123	111			10.7
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	125	112			11.2		
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	129		116	127			8.91
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.7		130	110			16.1
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.3		125	121			3.50
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106		104	114			9.52

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	112		126	103			20.1
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109		102	94.4			8.13
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127		156	140			10.9
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	150	157	156		4.82		
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	132		128	128			0.468
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153		139	150			7.81
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153		153	145			5.42
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	154		157	144			8.97
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	139		148	125			17.2
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152		125	123			1.86
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	124		133	127			4.61
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	134	147	140		9.56		
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	120		131	137			4.40
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	136		142	122			14.6
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	124		134	124			8.37
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	118		116	131			11.7
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	117		138	107			25.5
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	105		106	95.0			11.4
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	103		125	100			21.6
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	138	139	112		1.08		
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	115		119	124			3.86
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.8		103	88.2			15.8
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	87.7		118	114			3.11
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	99.9		117	97.4			18.0
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.5		113	111			2.23
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	108		62.5	103			49.2
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	121		139	116			17.4
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	130	121	130		7.10		
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	110		113	119			4.83

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	142		105	109			3.27
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	111		131	127			2.95
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	139		142	140			1.42
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	107		125	138			9.51
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.6		110	103			6.60
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	122		118	110			7.11
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	122	113	116		7.67		
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	131		125	138			9.71
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114		153	144			6.34
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	120		121	123			1.56
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	123		106	108			1.49
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	112		116	108			7.12
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.8		106	88.0			18.1
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	97.3		106	96.1			10.3
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	145	129	153		11.6		
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	160		150	142			5.21
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151		119	132			10.7
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	66.2		98.5	96.1			2.47
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106		114	113			0.971
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	122		88.2	81.5			7.90
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.9		77.1	79.9			3.57
	Perfluoro-1-butane sulfonamide (FBSA)	160		119	109			7.53
	Perfluoro-1-butane sulfonamide (FBSA)	146	149			1.83		
	Perfluoro-1-butane sulfonamide (FBSA)	153		122	138			11.8

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluoro-1-butane sulfonamide (FBSA)	154		139	140			0.358
	Perfluoro-1-butane sulfonamide (FBSA)	127		136	125			8.90
	Perfluoro-1-butane sulfonamide (FBSA)	130		129	128			0.621
	Perfluoro-1-butane sulfonamide (FBSA)	156		151	147			2.12
	Perfluoro-1-butane sulfonamide (FBSA)	156						0.337
	Perfluoro-1-hexane sulfonamide (FHxSA)	154		111	105			5.48
	Perfluoro-1-hexane sulfonamide (FHxSA)	137	139			1.45		
	Perfluoro-1-hexane sulfonamide (FHxSA)	129		127	146			13.3
	Perfluoro-1-hexane sulfonamide (FHxSA)	124		117	128			8.50
	Perfluoro-1-hexane sulfonamide (FHxSA)	128		129	120			7.47
	Perfluoro-1-hexane sulfonamide (FHxSA)	126		120	125			3.83
	Perfluoro-1-hexane sulfonamide (FHxSA)	151		155	144			7.20
	Perfluoro-1-hexane sulfonamide (FHxSA)	154		157	154			1.87
	Perfluoro-1-octane sulfonamide (FOSA)	117		116	112			3.78
	Perfluoro-1-octane sulfonamide (FOSA)	123	126	114		2.09		
	Perfluoro-1-octane sulfonamide (FOSA)	129		120	125			4.17
	Perfluoro-1-octane sulfonamide (FOSA)	115		122	119			2.24
	Perfluoro-1-octane sulfonamide (FOSA)	115		115	109			5.19
	Perfluoro-1-octane sulfonamide (FOSA)	119		110	111			0.999
	Perfluoro-1-octane sulfonamide (FOSA)	120		126	122			3.72
	Perfluoro-1-octane sulfonamide (FOSA)	95.7		102	96.6			5.34
	Perfluoro-3-methoxypropanoic acid (PFMPA)	113		107	91.1			16.1
	Perfluoro-3-methoxypropanoic acid (PFMPA)	122	120	123		1.98		
	Perfluoro-3-methoxypropanoic acid (PFMPA)	124		105	106			1.13
	Perfluoro-3-methoxypropanoic acid (PFMPA)	123		86.1	107			21.8
	Perfluoro-3-methoxypropanoic acid (PFMPA)	94.9		92.3	85.6			7.53
	Perfluoro-3-methoxypropanoic acid (PFMPA)	101		88.7	97.9			9.86
	Perfluoro-3-methoxypropanoic acid (PFMPA)	116		127	109			14.9
	Perfluoro-3-methoxypropanoic acid (PFMPA)	110		105	105			0.476
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	89.0		94.6	85.9			9.64

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	98.3	99.6	90.9		1.31		
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	102		76.7	90.5			16.5
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	69.2		75.9	88.3			15.1
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.8		82.3	84.3			2.40
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.9		76.6	89.4			15.4
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	93.1		117	106			9.93
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.9		91.6	84.5			8.06
	Perfluoro-4-methoxybutanoic acid (PFMBA)	65.8		76.1	74.8			1.72
	Perfluoro-4-methoxybutanoic acid (PFMBA)	70.2	75.6	75.2		7.41		
	Perfluoro-4-methoxybutanoic acid (PFMBA)	80.5		88.3	87.4			1.02
	Perfluoro-4-methoxybutanoic acid (PFMBA)	88.8		76.8	75.1			2.24
	Perfluoro-4-methoxybutanoic acid (PFMBA)	81.0		79.9	63.4			23.0
	Perfluoro-4-methoxybutanoic acid (PFMBA)	77.4		74.0	80.7			8.66
	Perfluoro-4-methoxybutanoic acid (PFMBA)	107		133	94.8			33.6
	Perfluoro-4-methoxybutanoic acid (PFMBA)	96.5		114	111			2.93
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	120		136	126			7.48
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	126	119	117		5.81		
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	93.1		116	108			7.03
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	98.5		122	126			2.91
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	128		127	111			13.8
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	124		124	110			11.5
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	125		140	135			3.42
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	138		119	117			1.44
	Perfluorobutanesulfonic acid (PFBS)	111		110	103			5.07
	Perfluorobutanesulfonic acid (PFBS)	105	110			4.57		
	Perfluorobutanesulfonic acid (PFBS)	90.5		93.9	121			25.2
	Perfluorobutanesulfonic acid (PFBS)	83.9		109	109			0.0920
	Perfluorobutanesulfonic acid (PFBS)	128		104	114			9.52
	Perfluorobutanesulfonic acid (PFBS)	115						10.4
	Perfluorobutanesulfonic acid (PFBS)	114		122	125			1.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)	113						3.98
	Perfluorobutanoic acid (PFBA)	116		103	108			3.40
	Perfluorobutanoic acid (PFBA)	124	118			4.30		
	Perfluorobutanoic acid (PFBA)	118		125	129			3.62
	Perfluorobutanoic acid (PFBA)	116		121	135			11.0
	Perfluorobutanoic acid (PFBA)	118		117	123			5.02
	Perfluorobutanoic acid (PFBA)	135		117	126			7.72
	Perfluorobutanoic acid (PFBA)	117		141	126			6.31
	Perfluorobutanoic acid (PFBA)	121		93.9	96.9			1.59
	Perfluorodecanesulfonic acid (PFDS)	101		97.9	85.8			13.2
	Perfluorodecanesulfonic acid (PFDS)	121	120	139		0.664		
	Perfluorodecanesulfonic acid (PFDS)	128		134	123			8.42
	Perfluorodecanesulfonic acid (PFDS)	130		132	127			3.86
	Perfluorodecanesulfonic acid (PFDS)	109		127	126			0.869
	Perfluorodecanesulfonic acid (PFDS)	112		115	116			0.520
	Perfluorodecanesulfonic acid (PFDS)	98.9		93.9	89.0			5.36
	Perfluorodecanesulfonic acid (PFDS)	97.7		90.0	88.2			2.02
	Perfluorodecanoic acid (PFDA)	91.8		99.6	91.6			8.37
	Perfluorodecanoic acid (PFDA)	124	126	130		1.76		
	Perfluorodecanoic acid (PFDA)	137		109	117			7.51
	Perfluorodecanoic acid (PFDA)	112		111	134			18.3
	Perfluorodecanoic acid (PFDA)	101		112	117			4.47
	Perfluorodecanoic acid (PFDA)	108		137	109			22.6
	Perfluorodecanoic acid (PFDA)	96.4		124	104			17.3
	Perfluorodecanoic acid (PFDA)	83.5		113	101			11.2
	Perfluorododecanoic acid (PFDoA)	86.3		70.2	91.8			26.7
	Perfluorododecanoic acid (PFDoA)	90.9	123	86.0		29.8		
	Perfluorododecanoic acid (PFDoA)	95.5		99.4	84.3			16.4
	Perfluorododecanoic acid (PFDoA)	94.2		92.5	112			19.2
	Perfluorododecanoic acid (PFDoA)	89.5		104	104			0.0963
	Perfluorododecanoic acid (PFDoA)	106		88.9	87.7			1.36
	Perfluorododecanoic acid (PFDoA)	100		98.3	85.1			14.4
	Perfluorododecanoic acid (PFDoA)	88.3		90.9	77.5			15.9
	Perfluoroheptanesulfonic acid (PFHpS)	82.1		90.8	84.7			6.95
	Perfluoroheptanesulfonic acid (PFHpS)	90.6	85.0			6.38		
	Perfluoroheptanesulfonic acid (PFHpS)	93.5		80.7	90.0			10.9
	Perfluoroheptanesulfonic acid (PFHpS)	68.1		74.2	86.1			14.8
	Perfluoroheptanesulfonic acid (PFHpS)	84.1		79.0	85.2			7.55
	Perfluoroheptanesulfonic acid (PFHpS)	82.5		82.2	80.5			2.09
	Perfluoroheptanesulfonic acid (PFHpS)	81.3		93.9	91.7			2.23
	Perfluoroheptanesulfonic acid (PFHpS)	76.2		86.3	78.8			9.09

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: LC-001-3	Perfluoroheptanoic acid (PFHpA)	103		110	115		3.81
	Perfluoroheptanoic acid (PFHpA)	119	106			11.2	
	Perfluoroheptanoic acid (PFHpA)	127		142	139		2.49
	Perfluoroheptanoic acid (PFHpA)	104		114	99.1		13.6
	Perfluoroheptanoic acid (PFHpA)	110		107	111		4.22
	Perfluoroheptanoic acid (PFHpA)	147		96.5	102		5.84
	Perfluoroheptanoic acid (PFHpA)	117		116	93.7		11.2
	Perfluoroheptanoic acid (PFHpA)	91.8		103	99.6		1.67
	Perfluorohexanesulfonic acid (PFHxS)	112		105	108		2.00
	Perfluorohexanesulfonic acid (PFHxS)	118	118			0.255	
	Perfluorohexanesulfonic acid (PFHxS)	112		104	106		1.24
	Perfluorohexanesulfonic acid (PFHxS)	97.5		96.0	106		9.62
	Perfluorohexanesulfonic acid (PFHxS)	100		99.0	108		8.55
	Perfluorohexanesulfonic acid (PFHxS)	111		84.0	92.6		4.61
	Perfluorohexanesulfonic acid (PFHxS)	104		111	114		1.45
	Perfluorohexanesulfonic acid (PFHxS)	85.9		103	85.8		9.74
	Perfluorohexanoic acid (PFHxA)	97.1		107	119		8.20
	Perfluorohexanoic acid (PFHxA)	121	107			12.0	
	Perfluorohexanoic acid (PFHxA)	128		124	140		12.2
	Perfluorohexanoic acid (PFHxA)	109		131	123		6.53
	Perfluorohexanoic acid (PFHxA)	96.1		120	107		12.1
	Perfluorohexanoic acid (PFHxA)	82.5		112	137		20.0
	Perfluorohexanoic acid (PFHxA)	111		103	107		1.72
	Perfluorohexanoic acid (PFHxA)	109					0.115
	Perfluorononanesulfonic acid (PFNS)	114		118	111		6.47
	Perfluorononanesulfonic acid (PFNS)	128	132	128		3.24	
	Perfluorononanesulfonic acid (PFNS)	119		124	125		1.04
	Perfluorononanesulfonic acid (PFNS)	130		127	115		9.93
	Perfluorononanesulfonic acid (PFNS)	113		124	124		0.162
	Perfluorononanesulfonic acid (PFNS)	106		108	107		1.30
	Perfluorononanesulfonic acid (PFNS)	115		133	99.8		28.8
	Perfluorononanesulfonic acid (PFNS)	106		104	95.3		9.21
	Perfluorononanoic acid (PFNA)	101		124	93.9		27.9
	Perfluorononanoic acid (PFNA)	104	111	106		6.54	
	Perfluorononanoic acid (PFNA)	127		98.4	120		19.4
	Perfluorononanoic acid (PFNA)	102		126	105		18.0
	Perfluorononanoic acid (PFNA)	107		99.0	86.6		13.4
	Perfluorononanoic acid (PFNA)	94.0		120	101		16.9
	Perfluorononanoic acid (PFNA)	105		110	94.4		15.3
	Perfluorononanoic acid (PFNA)	77.2		72.6	89.5		17.3
	Perfluorooctanesulfonic acid (PFOS)	99.1		107	114		2.63

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		Precision SMP	MS
DEP SOP: LC-001-3	Perfluorooctanesulfonic acid (PFOS)	109	108			0.643	
	Perfluorooctanesulfonic acid (PFOS)	112		117	111		4.15
	Perfluorooctanesulfonic acid (PFOS)	116		117	110		5.88
	Perfluorooctanesulfonic acid (PFOS)	106					2.44
	Perfluorooctanesulfonic acid (PFOS)	106		110	107		2.53
	Perfluorooctanesulfonic acid (PFOS)	108					8.51
	Perfluorooctanesulfonic acid (PFOS)	98.9					3.92
	Perfluorooctanoic acid (PFOA)	106		108	110		1.12
	Perfluorooctanoic acid (PFOA)	122	108			12.2	
	Perfluorooctanoic acid (PFOA)	143		85.8	87.4		1.57
	Perfluorooctanoic acid (PFOA)	124		125	122		1.78
	Perfluorooctanoic acid (PFOA)	122		135	127		6.56
	Perfluorooctanoic acid (PFOA)	127		117	122		4.69
	Perfluorooctanoic acid (PFOA)	127		132	120		3.83
	Perfluorooctanoic acid (PFOA)	116		78.1	47.6		13.2
	Perfluoropentanesulfonic acid (PFPeS)	115		118	116		1.47
	Perfluoropentanesulfonic acid (PFPeS)	108	114			5.77	
	Perfluoropentanesulfonic acid (PFPeS)	94.5		113	91.0		21.9
	Perfluoropentanesulfonic acid (PFPeS)	94.1		120	118		1.76
	Perfluoropentanesulfonic acid (PFPeS)	126		104	118		13.5
	Perfluoropentanesulfonic acid (PFPeS)	109		115	88.0		11.6
	Perfluoropentanesulfonic acid (PFPeS)	131		133	120		9.28
	Perfluoropentanesulfonic acid (PFPeS)	133		109	108		1.18
	Perfluoropentanoic acid (PFPeA)	119		138	136		0.896
	Perfluoropentanoic acid (PFPeA)	132	131			0.684	
	Perfluoropentanoic acid (PFPeA)	136		127	123		3.37
	Perfluoropentanoic acid (PFPeA)	139		118	119		1.18
	Perfluoropentanoic acid (PFPeA)	123		130	138		5.30
	Perfluoropentanoic acid (PFPeA)	117		117	110		5.64
	Perfluoropentanoic acid (PFPeA)	137		148	104		15.1
	Perfluoropentanoic acid (PFPeA)	98.7					3.31
	Perfluoropropanesulfonic acid (PFPrS)	157		159	150		5.30
	Perfluoropropanesulfonic acid (PFPrS)	150	149			0.671	
	Perfluoropropanesulfonic acid (PFPrS)	110		141	118		17.9
	Perfluoropropanesulfonic acid (PFPrS)	107		145	130		10.9
	Perfluoropropanesulfonic acid (PFPrS)	138		141	126		11.1
	Perfluoropropanesulfonic acid (PFPrS)	123		136	174		11.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery		MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	122		88.2	84.9			3.81
	Perfluoropropanesulfonic acid (PFPrS)	151		95.6	112			15.9
	Perfluorotetradecanoic acid (PFTeA)	147		153	124			20.7
	Perfluorotetradecanoic acid (PFTeA)	149	133	144		11.0		
	Perfluorotetradecanoic acid (PFTeA)	137		126	148			16.5
	Perfluorotetradecanoic acid (PFTeA)	138		136	134			1.26
	Perfluorotetradecanoic acid (PFTeA)	120		136	145			5.97
	Perfluorotetradecanoic acid (PFTeA)	114		158	157			0.572
	Perfluorotetradecanoic acid (PFTeA)	135		153	141			7.76
	Perfluorotetradecanoic acid (PFTeA)	87.0		105	92.0			13.2
	Perfluorotridecanoic acid (PFTriA)	149		149	132			12.2
	Perfluorotridecanoic acid (PFTriA)	153	148	152		2.79		
	Perfluorotridecanoic acid (PFTriA)	141		124	143			14.4
	Perfluorotridecanoic acid (PFTriA)	122		142	125			12.7
	Perfluorotridecanoic acid (PFTriA)	136		142	136			4.03
	Perfluorotridecanoic acid (PFTriA)	120		157	148			5.98
	Perfluorotridecanoic acid (PFTriA)	144		157	152			3.63
	Perfluorotridecanoic acid (PFTriA)	143		96.4	114			16.6
	Perfluoroundecanoic acid (PFUnA)	116		131	118			10.1
	Perfluoroundecanoic acid (PFUnA)	127	124	142		2.87		
	Perfluoroundecanoic acid (PFUnA)	101		126	112			11.9
	Perfluoroundecanoic acid (PFUnA)	104		109	98.4			10.3
	Perfluoroundecanoic acid (PFUnA)	81.6		86.7	151			54.0
	Perfluoroundecanoic acid (PFUnA)	119		92.6	95.4			2.98
	Perfluoroundecanoic acid (PFUnA)	85.7		105	114			8.78
	Perfluoroundecanoic acid (PFUnA)	102		84.2	89.7			6.33

Reference Method Descriptions

Method	Description	Associated Samples
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Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in sediment/solid matrices by HPLC/MS/MS	2308434, 2308435, 2308436, 2308437, 2308438, 2308439, 2308440, 2308441, 2308442, 2308443, 2308444, 2308445, 2308446, 2308447, 2308448, 2308449, 2308450, 2308451, 2308452, 2308453, 2308454, 2308455, 2308456, 2308457, 2308458, 2308459, 2308460, 2308461, 2308462, 2308463, 2308554, 2308555, 2308556, 2308557, 2308558, 2308559, 2308560, 2308561, 2308562, 2308563, 2308564, 2308565, 2308566, 2308567, 2308568, 2308569, 2308570, 2308571, 2308596, 2308597, 2308598, 2308599, 2308600, 2308601, 2308602, 2308603, 2308604, 2308605, 2308606, 2308607, 2308608, 2308609, 2308610, 2308611, 2308612, 2308613, 2308614, 2308615, 2308616, 2308617, 2308618, 2308619, 2308620, 2308621, 2308622
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2308408, 2308409, 2308410, 2308411, 2308412, 2308413, 2308414, 2308415, 2308416, 2308417, 2308418, 2308419, 2308420, 2308524, 2308525, 2308526, 2308527, 2308528, 2308529, 2308530, 2308531, 2308532, 2308533, 2308534, 2308535, 2308536, 2308537, 2308538, 2308572, 2308573, 2308574
SM 2540 G (20th)	Percent solid determination before the other sample preparations.	2308474, 2308475, 2308476, 2308477, 2308478, 2308479, 2308480, 2308481, 2308482, 2308483, 2308484, 2308485, 2308486, 2308487, 2308488, 2308489, 2308490, 2308491, 2308492, 2308493, 2308494, 2308495, 2308496, 2308497, 2308498, 2308499, 2308500, 2308501, 2308502, 2308503, 2308575, 2308576, 2308577, 2308578, 2308579, 2308581, 2308582, 2308583, 2308584, 2308585, 2308587, 2308588, 2308589, 2308590, 2308591, 2308592, 2308593, 2308594, 2308623, 2308624, 2308625, 2308626, 2308627, 2308628, 2308629, 2308630, 2308631, 2308632, 2308633, 2308634, 2308635, 2308636, 2308637, 2308638, 2308639, 2308640, 2308641, 2308642, 2308643, 2308644, 2308645, 2308646, 2308647, 2308648, 2308649

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 20:52	Mohammad Ghaffari	2308434
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 21:46	Mohammad Ghaffari	2308435
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 21:56	Mohammad Ghaffari	2308436
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 22:07	Mohammad Ghaffari	2308437
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 22:18	Mohammad Ghaffari	2308438
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 22:29	Mohammad Ghaffari	2308439
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 22:40	Mohammad Ghaffari	2308440
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 22:50	Mohammad Ghaffari	2308441
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 23:01	Mohammad Ghaffari	2308442
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 23:23	Mohammad Ghaffari	2308443
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 23:33	Mohammad Ghaffari	2308444
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 23:44	Mohammad Ghaffari	2308445
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/01/2022 23:55	Mohammad Ghaffari	2308446
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/02/2022 00:06	Mohammad Ghaffari	2308447
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/02/2022 00:17	Mohammad Ghaffari	2308448
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/02/2022 00:27	Mohammad Ghaffari	2308449
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/02/2022 00:49	Mohammad Ghaffari	2308451
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/02/2022 01:00	Mohammad Ghaffari	2308452
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/02/2022 01:11	Mohammad Ghaffari	2308453
	02/25/2022	02/28/2022 10:00	Manjita Shrestha	03/02/2022 15:44	Mohammad Ghaffari	2308450
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/01/2022 21:24	Mohammad Ghaffari	2308454
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 01:21	Mohammad Ghaffari	2308455
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 01:32	Mohammad Ghaffari	2308456
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 01:43	Mohammad Ghaffari	2308458
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 01:54	Mohammad Ghaffari	2308459
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 02:15	Mohammad Ghaffari	2308460
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 02:26	Mohammad Ghaffari	2308461
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 02:37	Mohammad Ghaffari	2308462
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 02:48	Mohammad Ghaffari	2308463
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 02:59	Mohammad Ghaffari	2308554
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 03:09	Mohammad Ghaffari	2308555
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 03:31	Mohammad Ghaffari	2308557
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 03:42	Mohammad Ghaffari	2308558
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 09:15	Mohammad Ghaffari	2308559
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 09:37	Mohammad Ghaffari	2308560
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 09:48	Mohammad Ghaffari	2308561
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 09:58	Mohammad Ghaffari	2308562
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 10:09	Mohammad Ghaffari	2308563
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 15:33	Mohammad Ghaffari	2308554
	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 15:55	Mohammad Ghaffari	2308457

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	02/25/2022	02/28/2022 10:30	Manjita Shrestha	03/02/2022 16:05	Mohammad Ghaffari	2308556
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	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 19:41	Mohammad Ghaffari	2308608
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 19:52	Mohammad Ghaffari	2308565
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 20:02	Mohammad Ghaffari	2308566
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 20:13	Mohammad Ghaffari	2308567
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 20:24	Mohammad Ghaffari	2308568
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 20:35	Mohammad Ghaffari	2308569
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 20:56	Mohammad Ghaffari	2308570
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 21:07	Mohammad Ghaffari	2308571
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 21:18	Mohammad Ghaffari	2308596
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 21:29	Mohammad Ghaffari	2308597
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 21:39	Mohammad Ghaffari	2308598
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 21:50	Mohammad Ghaffari	2308599
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	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 22:23	Mohammad Ghaffari	2308601
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 22:33	Mohammad Ghaffari	2308602
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	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 22:55	Mohammad Ghaffari	2308604
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 23:06	Mohammad Ghaffari	2308605
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 23:17	Mohammad Ghaffari	2308606
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 23:27	Mohammad Ghaffari	2308607
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/02/2022 23:49	Mohammad Ghaffari	2308609
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	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 00:11	Mohammad Ghaffari	2308611
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 00:21	Mohammad Ghaffari	2308612
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 00:32	Mohammad Ghaffari	2308613
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 00:43	Mohammad Ghaffari	2308614
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 00:54	Mohammad Ghaffari	2308615
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 01:15	Mohammad Ghaffari	2308616
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 01:26	Mohammad Ghaffari	2308617
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 01:37	Mohammad Ghaffari	2308618
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 01:48	Mohammad Ghaffari	2308619
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 01:58	Mohammad Ghaffari	2308620
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 02:09	Mohammad Ghaffari	2308621
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 02:20	Mohammad Ghaffari	2308622
	02/25/2022	03/01/2022 10:00	Manjita Shrestha	03/03/2022 13:13	Mohammad Ghaffari	2308603
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/03/2022 10:09	Mohammad Ghaffari	2308409
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/03/2022 10:20	Mohammad Ghaffari	2308410
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/03/2022 12:29	Mohammad Ghaffari	2308408

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/03/2022 12:40	Mohammad Ghaffari	2308412
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/03/2022 12:51	Mohammad Ghaffari	2308413
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/03/2022 13:02	Mohammad Ghaffari	2308414
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/03/2022 15:24	Mohammad Ghaffari	2308412
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/04/2022 08:37	Mohammad Ghaffari	2308409
	02/25/2022	03/02/2022 09:00	Hoor Shaik	03/04/2022 08:48	Mohammad Ghaffari	2308410
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 09:20	Mohammad Ghaffari	2308415
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 09:31	Mohammad Ghaffari	2308416
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 09:42	Mohammad Ghaffari	2308417
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 09:53	Mohammad Ghaffari	2308418
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 10:03	Mohammad Ghaffari	2308419
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 10:25	Mohammad Ghaffari	2308420
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 10:36	Mohammad Ghaffari	2308531
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 11:19	Mohammad Ghaffari	2308530
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 11:30	Mohammad Ghaffari	2308526
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 11:41	Mohammad Ghaffari	2308527
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 11:51	Mohammad Ghaffari	2308534
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 12:02	Mohammad Ghaffari	2308535
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 12:24	Mohammad Ghaffari	2308524
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 12:34	Mohammad Ghaffari	2308525
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 12:45	Mohammad Ghaffari	2308528
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 12:56	Mohammad Ghaffari	2308529
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 13:07	Mohammad Ghaffari	2308532
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 13:18	Mohammad Ghaffari	2308533
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 13:29	Mohammad Ghaffari	2308536
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 13:39	Mohammad Ghaffari	2308537
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 19:57	Mohammad Ghaffari	2308526
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 20:08	Mohammad Ghaffari	2308527
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 20:18	Mohammad Ghaffari	2308524
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 20:29	Mohammad Ghaffari	2308525
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 20:40	Mohammad Ghaffari	2308528
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 20:51	Mohammad Ghaffari	2308529
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/04/2022 21:02	Mohammad Ghaffari	2308530
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/07/2022 08:09	Mohammad Ghaffari	2308528
	02/25/2022	03/03/2022 09:00	Hoor Shaik	03/07/2022 08:19	Mohammad Ghaffari	2308529
	02/25/2022	03/04/2022 09:00	Hoor Shaik	03/04/2022 22:06	Mohammad Ghaffari	2308572
	02/25/2022	03/04/2022 09:00	Hoor Shaik	03/04/2022 22:17	Mohammad Ghaffari	2308573
	02/25/2022	03/04/2022 09:00	Hoor Shaik	03/04/2022 22:28	Mohammad Ghaffari	2308574
	02/25/2022	03/04/2022 09:00	Hoor Shaik	03/05/2022 00:05	Mohammad Ghaffari	2308538
	02/25/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 08:10	Mohammad Ghaffari	2308411

Chemical Analysis Report

SIS-2022-03-02-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **FSFC Soil and GW Sampling February 21 2022**

Request ID: **RQ-2022-02-21-67**

Customer: **SIS**

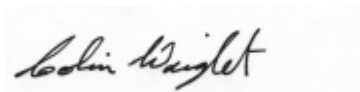
Project ID: **FC-MARION**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: David Meyers

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 15-MAR-2022 08:49



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Florida State Fire College

Collection Date/Time: 02/22/2022 15:38

Field ID: SP-29 (97-101')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309190	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	29		ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.8	I	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	310		ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	9.0		ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	4.4	I	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	120		ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	36		ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	2.5	I	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	16		ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.9	I	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P410583	

Field ID: SP-29 (97-101')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309190	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P410583	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P410583	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 10:00

Field ID: SP-26 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309191	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.41	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	0.82	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.41	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.82	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.82	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.82	U	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P410583	

Field ID: SP-26 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309191	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P410583	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P410583	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 17:40

Field ID: SP-26 (111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309192	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.56	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	5.6	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	5.6	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.8	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.8	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	1.1	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.8	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.8	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.8	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.8	U	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.8	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.8	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.8	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.8	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.56	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.56	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.56	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.56	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.1	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.6	I	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.56	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.8	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.8	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.8	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	22	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.8	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.1	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.1	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.6	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	5.6	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.6	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.6	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.6	U	ng/L	P410583	

Field ID: SP-26 (111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309192	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.6	U	ng/L	P410583	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	11	U	ng/L	P410583	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/23/2022 11:05

Field ID: SP-26 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309193	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.42	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	0.83	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.8	I	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.42	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.83	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.1	I	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P410583	

Field ID: SP-26 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309193	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P410583	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.3	U	ng/L	P410583	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/24/2022 12:20

Field ID: SP-27 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309194	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410583	

Field ID: SP-27 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309194	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410583	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410583	

Sample Location: Florida State Fire College

Collection Date/Time: 02/28/2022 10:37

Field ID: SP-27 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309195	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.42	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	0.83	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.1	U	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.42	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.83	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P410583	

Field ID: SP-27 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309195	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P410583	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.3	U	ng/L	P410583	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/28/2022 11:04

Field ID: SP-27 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309196	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.43	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.3	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	0.87	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.2	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.2	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.2	U	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.2	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.43	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.87	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.87	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.87	U	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.43	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.87	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.87	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.3	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P410583	

Field ID: SP-27 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309196	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.3	U	ng/L	P410583	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.7	U	ng/L	P410583	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/28/2022 11:31

Field ID: SP-27 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309197	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.45	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	0.90	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.3	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.3	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.3	U	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.3	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.45	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.90	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.90	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.3	I	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.90	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.90	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P410583	

Field ID: SP-27 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309197	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P410583	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.0	U	ng/L	P410583	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/28/2022 12:00

Field ID: SP-27 (111-155')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309198	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.42	U	ng/L	P410583	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P410583	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P410583	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P410583	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P410583	
		Perfluorohexanesulfonic acid (PFHxS)**	0.85	U	ng/L	P410583	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P410583	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P410583	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P410583	
		Perfluorooctanesulfonic acid (PFOS)**	2.1	U	ng/L	P410583	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P410583	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P410583	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P410583	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P410583	
		Perfluoropentanesulfonic acid (PFPeS)**	0.42	U	ng/L	P410583	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.85	U	ng/L	P410583	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P410583	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P410583	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P410583	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.85	U	ng/L	P410583	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.98	I	ng/L	P410583	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P410583	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P410583	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410583	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P410583	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.85	U	ng/L	P410583	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.85	U	ng/L	P410583	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P410583	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P410583	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P410583	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P410583	

Field ID: SP-27 (111-155')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309198	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P410583	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.5	U	ng/L	P410583	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 02/28/2022 13:35

Field ID: EQB-81

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309199	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410695	

Field ID: EQB-81

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309199	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410695	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/01/2022 10:32

Field ID: SP-24 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309200	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.4	I	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.6	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.6	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.92	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.3	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.3	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.3	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.3	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.46	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.92	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.46	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.46	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.46	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.92	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.92	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.46	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.92	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.92	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.6	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.6	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.6	U	ng/L	P410695	

Field ID: SP-24 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309200	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.6	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.2	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/01/2022 10:56

Field ID: SP-24 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309201	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.67	I	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.2	I	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410695	

Field ID: SP-24 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309201	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/01/2022 11:28

Field ID: SP-24 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309202	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410695	

Field ID: SP-24 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309202	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410695	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/01/2022 12:01

Field ID: SP-24 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309203	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.44	I	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.4	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.88	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.2	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.2	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.2	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.2	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.44	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.88	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.88	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.88	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.44	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.88	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.88	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.4	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P410695	

Field ID: SP-24 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309203	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.4	U	ng/L	P410695	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.8	U	ng/L	P410695	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/01/2022 12:41

Field ID: SP-24 (111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309204	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.81	I	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.6	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.6	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.92	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.3	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.3	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.3	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.3	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.46	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.92	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.46	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.46	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.46	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.92	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.92	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.46	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.92	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.92	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.6	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.6	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.6	U	ng/L	P410695	

Field ID: SP-24 (111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2309204	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.6	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.2	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P410583

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410583

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	107		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	123		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	117		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	108		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	86.5		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	140		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	117		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	139		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	127		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	114		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	96.2		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	111		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	86.9		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	63.8		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	129		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	104		P	30 - 160
Perfluorobutanoic acid (PFBA)	124		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	114		P	30 - 160
Perfluorodecanoic acid (PFDA)	91.5		P	30 - 160
Perfluorododecanoic acid (PFDoA)	89.2		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	73.1		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	111		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	106		P	30 - 160
Perfluorohexanoic acid (PFHxA)	109		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	106		P	30 - 160
Perfluorononanoic acid (PFNA)	83.2		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	98.8		P	30 - 160
Perfluorooctanoic acid (PFOA)	109		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	110		P	30 - 160
Perfluoropentanoic acid (PFPeA)	109		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	150		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	106		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	158		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	99.4		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.2		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	108		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.8		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.9		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	156		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
 Batch ID: P410695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	154		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.7		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.9		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	96.5		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	138		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	113		P	30 - 160
Perfluorobutanoic acid (PFBA)	121		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	97.7		P	30 - 160
Perfluorodecanoic acid (PFDA)	83.5		P	30 - 160
Perfluorododecanoic acid (PFDoA)	88.3		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.2		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	91.8		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	85.9		P	30 - 160
Perfluorohexanoic acid (PFHxA)	109		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	106		P	30 - 160
Perfluorononanoic acid (PFNA)	77.2		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	98.9		P	30 - 160
Perfluorooctanoic acid (PFOA)	116		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	133		P	30 - 160
Perfluoropentanoic acid (PFPeA)	98.7		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	151		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	87.0		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	143		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	102		P	30 - 160

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410583

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309087	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	74.7	64.4	P/P	30 - 160
2309087	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	135	112	P/P	30 - 160
2309087	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	87.3	77.5	P/P	30 - 160
2309087	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	119	100	P/P	30 - 160
2309087	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	112	P/P	30 - 160
2309087	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	112	P/P	30 - 160
2309087	Hexafluoropropylene oxide dimer acid (HFPO-DA)	77.1	78.2	P/P	30 - 160
2309087	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	110	113	P/P	30 - 160
2309087	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	90.7	82.0	P/P	30 - 160
2309087	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	98.8	105	P/P	30 - 160
2309087	Perfluoro-1-butane sulfonamide (FBSA)	119	119	P/P	30 - 160
2309087	Perfluoro-1-hexane sulfonamide (FHxSA)	120	121	P/P	30 - 160
2309087	Perfluoro-1-octane sulfonamide (FOSA)	98.7	94.7	P/P	30 - 160
2309087	Perfluoro-3-methoxypropanoic acid (PFMPA)	85.3	78.3	P/P	30 - 160
2309087	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	73.5	74.3	P/P	30 - 160
2309087	Perfluoro-4-methoxybutanoic acid (PFMBA)	63.0	67.6	P/P	30 - 160
2309087	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	125	109	P/P	30 - 160
2309087	Perfluorobutanesulfonic acid (PFBS)	84.4	75.4	P/P	30 - 160
2309087	Perfluorobutanoic acid (PFBA)	116	136	P/P	30 - 160
2309087	Perfluorodecanesulfonic acid (PFDS)	89.6	75.3	P/P	30 - 160
2309087	Perfluorodecanoic acid (PFDA)	81.0	89.9	P/P	30 - 160
2309087	Perfluorododecanoic acid (PFDoA)	83.1	66.5	P/P	30 - 160
2309087	Perfluoroheptanesulfonic acid (PFHpS)	68.6	69.1	P/P	30 - 160
2309087	Perfluoroheptanoic acid (PFHpA)	98.8	96.5	P/P	30 - 160
2309087	Perfluorohexanesulfonic acid (PFHxS)	89.3	84.1	P/P	30 - 160
2309087	Perfluorohexanoic acid (PFHxA)	78.2	91.6	P/P	30 - 160
2309087	Perfluorononanesulfonic acid (PFNS)	106	99.4	P/P	30 - 160
2309087	Perfluorononanoic acid (PFNA)	90.0	92.3	P/P	30 - 160
2309087	Perfluorooctanesulfonic acid (PFOS)	93.7	129	P/P	30 - 160
2309087	Perfluorooctanoic acid (PFOA)	111	94.3	P/P	30 - 160
2309087	Perfluoropentanesulfonic acid (PFPeS)	116	108	P/P	30 - 160
2309087	Perfluoropentanoic acid (PFPeA)	112	122	P/P	30 - 160
2309087	Perfluoropropanesulfonic acid (PFPrS)	156	116	P/P	30 - 160
2309087	Perfluorotetradecanoic acid (PFTeA)	92.2	96.0	P/P	30 - 160
2309087	Perfluorotridecanoic acid (PFTriA)	123	102	P/P	30 - 160
2309087	Perfluoroundecanoic acid (PFUnA)	95.2	74.6	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309268	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	81.9	79.4	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	107	84.3	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	94.6	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	94.4	P/P	30 - 160
2309268	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	125	123	P/P	30 - 160
2309268	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	106	95.0	P/P	30 - 160
2309268	Hexafluoropropylene oxide dimer acid (HFPO-DA)	62.5	103	P/P	30 - 160
2309268	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	110	103	P/P	30 - 160
2309268	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106	88.0	P/P	30 - 160
2309268	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	77.1	79.9	P/P	30 - 160
2309268	Perfluoro-1-hexane sulfonamide (FHxSA)	157	154	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309268	Perfluoro-1-octane sulfonamide (FOSA)	102	96.6	P/P	30 - 160
2309268	Perfluoro-3-methoxypropanoic acid (PFMPA)	105	105	P/P	30 - 160
2309268	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	91.6	84.5	P/P	30 - 160
2309268	Perfluoro-4-methoxybutanoic acid (PFMBA)	114	111	P/P	30 - 160
2309268	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	117	P/P	30 - 160
2309268	Perfluorobutanoic acid (PFBA)	93.9	96.9	P/P	30 - 160
2309268	Perfluorodecanesulfonic acid (PFDS)	90.0	88.2	P/P	30 - 160
2309268	Perfluorodecanoic acid (PFDA)	113	101	P/P	30 - 160
2309268	Perfluorododecanoic acid (PFDoA)	90.9	77.5	P/P	30 - 160
2309268	Perfluoroheptanesulfonic acid (PFHpS)	86.3	78.8	P/P	30 - 160
2309268	Perfluoroheptanoic acid (PFHpA)	103	99.6	P/P	30 - 160
2309268	Perfluorohexanesulfonic acid (PFHxS)	103	85.8	P/P	30 - 160
2309268	Perfluorononanesulfonic acid (PFNS)	104	95.3	P/P	30 - 160
2309268	Perfluorononanoic acid (PFNA)	72.6	89.5	P/P	30 - 160
2309268	Perfluorooctanoic acid (PFOA)	78.1	47.6	P/P	30 - 160
2309268	Perfluoropentanesulfonic acid (PFPeS)	109	108	P/P	30 - 160
2309268	Perfluoropropanesulfonic acid (PFPrS)	95.6	112	P/P	30 - 160
2309268	Perfluorotetradecanoic acid (PFTeA)	105	92.0	P/P	30 - 160
2309268	Perfluorotridecanoic acid (PFTriA)	96.4	114	P/P	30 - 160
2309268	Perfluoroundecanoic acid (PFUnA)	84.2	89.7	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410583

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309087	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	14.8	Spike	P	0 - 30
2309087	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	18.2	Spike	P	0 - 30
2309087	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	11.9	Spike	P	0 - 30
2309087	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	17.2	Spike	P	0 - 30
2309087	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	4.79	Spike	P	0 - 30
2309087	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.81	Spike	P	0 - 30
2309087	Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.42	Spike	P	0 - 30
2309087	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.05	Spike	P	0 - 30
2309087	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	10.1	Spike	P	0 - 30
2309087	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	6.08	Spike	P	0 - 30
2309087	Perfluoro-1-butane sulfonamide (FBSA)	0.0767	Spike	P	0 - 30
2309087	Perfluoro-1-hexane sulfonamide (FHxSA)	0.414	Spike	P	0 - 30
2309087	Perfluoro-1-octane sulfonamide (FOSA)	4.14	Spike	P	0 - 30
2309087	Perfluoro-3-methoxypropanoic acid (PFMPA)	8.56	Spike	P	0 - 30
2309087	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	1.08	Spike	P	0 - 30
2309087	Perfluoro-4-methoxybutanoic acid (PFMBA)	7.04	Spike	P	0 - 30
2309087	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	13.5	Spike	P	0 - 30
2309087	Perfluorobutanesulfonic acid (PFBS)	4.50	Spike	P	0 - 30
2309087	Perfluorobutanoic acid (PFBA)	8.40	Spike	P	0 - 30
2309087	Perfluorodecanesulfonic acid (PFDS)	17.3	Spike	P	0 - 30
2309087	Perfluorodecanoic acid (PFDA)	10.4	Spike	P	0 - 30
2309087	Perfluorododecanoic acid (PFDoA)	22.2	Spike	P	0 - 30
2309087	Perfluoroheptanesulfonic acid (PFHpS)	0.726	Spike	P	0 - 30
2309087	Perfluoroheptanoic acid (PFHpA)	1.79	Spike	P	0 - 30
2309087	Perfluorohexanesulfonic acid (PFHxS)	5.05	Spike	P	0 - 30
2309087	Perfluorohexanoic acid (PFHxA)	8.06	Spike	P	0 - 30
2309087	Perfluorononanesulfonic acid (PFNS)	6.80	Spike	P	0 - 30
2309087	Perfluorononanoic acid (PFNA)	2.52	Spike	P	0 - 30
2309087	Perfluorooctanesulfonic acid (PFOS)	12.6	Spike	P	0 - 30
2309087	Perfluorooctanoic acid (PFOA)	11.6	Spike	P	0 - 30
2309087	Perfluoropentanesulfonic acid (PFPeS)	6.96	Spike	P	0 - 30
2309087	Perfluoropentanoic acid (PFPeA)	3.50	Spike	P	0 - 30
2309087	Perfluoropropanesulfonic acid (PFPrS)	28.8	Spike	P	0 - 30
2309087	Perfluorotetradecanoic acid (PFTeA)	4.04	Spike	P	0 - 30
2309087	Perfluorotridecanoic acid (PFTriA)	19.0	Spike	P	0 - 30
2309087	Perfluoroundecanoic acid (PFUnA)	24.3	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309268	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.10	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	24.1	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.89	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.13	Spike	P	0 - 30
2309268	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.86	Spike	P	0 - 30
2309268	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.4	Spike	P	0 - 30
2309268	Hexafluoropropylene oxide dimer acid (HFPO-DA)	49.2	Spike	F	0 - 30
2309268	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	6.60	Spike	P	0 - 30
2309268	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309268	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.57	Spike	P	0 - 30
2309268	Perfluoro-1-butane sulfonamide (FBSA)	0.337	Spike	P	0 - 30
2309268	Perfluoro-1-hexane sulfonamide (FHxSA)	1.87	Spike	P	0 - 30
2309268	Perfluoro-1-octane sulfonamide (FOSA)	5.34	Spike	P	0 - 30
2309268	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.476	Spike	P	0 - 30
2309268	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.06	Spike	P	0 - 30
2309268	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.93	Spike	P	0 - 30
2309268	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.44	Spike	P	0 - 30
2309268	Perfluorobutanesulfonic acid (PFBS)	3.98	Spike	P	0 - 30
2309268	Perfluorobutanoic acid (PFBA)	1.59	Spike	P	0 - 30
2309268	Perfluorodecanesulfonic acid (PFDS)	2.02	Spike	P	0 - 30
2309268	Perfluorodecanoic acid (PFDA)	11.2	Spike	P	0 - 30
2309268	Perfluorododecanoic acid (PFDoA)	15.9	Spike	P	0 - 30
2309268	Perfluoroheptanesulfonic acid (PFHpS)	9.09	Spike	P	0 - 30
2309268	Perfluoroheptanoic acid (PFHpA)	1.67	Spike	P	0 - 30
2309268	Perfluorohexanesulfonic acid (PFHxS)	9.74	Spike	P	0 - 30
2309268	Perfluorohexanoic acid (PFHxA)	0.115	Spike	P	0 - 30
2309268	Perfluorononanesulfonic acid (PFNS)	9.21	Spike	P	0 - 30
2309268	Perfluorononanoic acid (PFNA)	17.3	Spike	P	0 - 30
2309268	Perfluorooctanesulfonic acid (PFOS)	3.92	Spike	P	0 - 30
2309268	Perfluorooctanoic acid (PFOA)	13.2	Spike	P	0 - 30
2309268	Perfluoropentanesulfonic acid (PFPeS)	1.18	Spike	P	0 - 30
2309268	Perfluoropentanoic acid (PFPeA)	3.31	Spike	P	0 - 30
2309268	Perfluoropropanesulfonic acid (PFPrS)	15.9	Spike	P	0 - 30
2309268	Perfluorotetradecanoic acid (PFTeA)	13.2	Spike	P	0 - 30
2309268	Perfluorotridecanoic acid (PFTriA)	16.6	Spike	P	0 - 30
2309268	Perfluoroundecanoic acid (PFUnA)	6.33	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2309190

Field Sample ID: SP-29 (97-101')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	123	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2309191

Field Sample ID: SP-26 (41-45')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	109	P	30 - 160

Lab Sample ID: 2309192

Field Sample ID: SP-26 (111-115')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	101	P	30 - 160

Lab Sample ID: 2309193

Field Sample ID: SP-26 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	114	P	30 - 160

Lab Sample ID: 2309194

Field Sample ID: SP-27 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	134	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.9	P	30 - 160

Lab Sample ID: 2309195

Field Sample ID: SP-27 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2309195

Field Sample ID: SP-27 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	138	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.0	P	30 - 160

Lab Sample ID: 2309196

Field Sample ID: SP-27 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	140	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	104	P	30 - 160

Lab Sample ID: 2309197

Field Sample ID: SP-27 (101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	134	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	148	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2309198

Field Sample ID: SP-27 (111-155')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2309199

Field Sample ID: EQB-81

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	133	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.9	P	30 - 160

Lab Sample ID: 2309200

Field Sample ID: SP-24 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2309200
Field Sample ID: SP-24 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	111	P	30 - 160

Lab Sample ID: 2309201
Field Sample ID: SP-24 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	97.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	142	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.5	P	30 - 160

Lab Sample ID: 2309202
Field Sample ID: SP-24 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

Lab Sample ID: 2309203
Field Sample ID: SP-24 (101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	133	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.2	P	30 - 160

Lab Sample ID: 2309204
Field Sample ID: SP-24 (111-115')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	155	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	137	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	105	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110822

Included Lab Sample IDs: 2309190, 2309191, 2309192, 2309193, 2309194, 2309195, 2309196, 2309197, 2309198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	112	114	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	107	115	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	107	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	95.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.4	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	115	108	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	140	153	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	149	140	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	117	117	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	117	114	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.7	97.6	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	97.6	77.3	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104	108	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.7	104	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	105	87.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	87.7	98.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	146	148	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	148	149	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	133	140	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	140	138	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	116	127	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	127	128	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	103	99.5	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.5	102	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	90.1	99.2	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	99.2	102	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.1	87.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	87.3	85.6	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	79.6	92.4	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	92.4	96.4	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	123	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	123	119	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	92.6	98.2	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.7	92.6	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	120	123	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	122	120	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	110	106	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	121	110	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	85.0	93.4	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	93.4	79.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	74.6	92.3	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	92.3	95.1	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	77.6	78.1	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.1	81.9	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	107	109	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	109	95.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	90.0	91.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.1	94.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	100	91.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110822

Included Lab Sample IDs: 2309190, 2309191, 2309192, 2309193, 2309194, 2309195, 2309196, 2309197, 2309198

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanoic acid (PFHxA)	99.8	100	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	104	109	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	112	104	P/P	60 - 160
Perfluorononanoic acid (PFNA)	78.4	99.2	P/P	60 - 160
Perfluorononanoic acid (PFNA)	88.8	78.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	92.9	97.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	97.4	92.9	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	95.7	109	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	99.6	95.7	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	104	113	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	113	104	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	111	114	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	114	121	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	76.3	120	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.8	76.3	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	87.4	88.5	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	94.7	87.4	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	124	125	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	125	106	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	108	68.3	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	86.5	108	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A110839

Included Lab Sample IDs: 2309199, 2309200, 2309201, 2309202, 2309203, 2309204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	109	108	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.9	111	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.6	84.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.4	90.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	90.8	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	88.3	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.5	88.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	111	148	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	148	153	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	101	110	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	110	112	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	85.1	88.6	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.0	85.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.6	97.9	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.9	97.0	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101	91.8	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.8	98.1	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	105	123	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	97.2	105	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	134	145	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	140	134	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	131	140	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	99.7	131	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110839

Included Lab Sample IDs: 2309199, 2309200, 2309201, 2309202, 2309203, 2309204

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-octane sulfonamide (FOSA)	102	108	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.2	102	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	108	108	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110	108	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.1	87.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	87.3	87.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	101	112	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	104	101	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	130	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	130	123	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.1	98.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.8	95.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	115	123	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	123	109	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	103	120	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	116	103	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	73.6	69.5	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	89.3	73.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	70.2	82.4	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	82.4	86.1	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	71.0	73.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	73.4	79.4	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	108	93.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.0	97.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.6	92.2	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.2	86.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	94.0	111	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	98.3	94.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	109	113	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	114	109	P/P	60 - 160
Perfluorononanoic acid (PFNA)	105	93.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	86.4	105	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	84.1	93.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	93.4	92.6	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	116	119	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	119	122	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	116	117	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	67.5	116	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	100	115	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	115	109	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	71.9	87.9	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	94.6	71.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	82.2	90.7	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	98.4	82.2	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	133	140	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	140	158	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	108	91.8	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.7	108	P/P	60 - 160

Quality Assurance Report

Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105	74.7	64.4			14.8
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0	81.9	79.4			3.10
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	109	135	112			18.2
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.2	107	84.3			24.1
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	107	87.3	77.5			11.9
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115	103	94.6			8.89
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	123	119	100			17.2
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109	102	94.4			8.13
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	117	118	112			4.79
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152	125	123			1.86
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	108	105	112			5.81
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	105	106	95.0			11.4
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	86.5	77.1	78.2			1.42
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	108	62.5	103			49.2
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	140	110	113			3.05
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.6	110	103			6.60
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	117	90.7	82.0			10.1
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.8	106	88.0			18.1
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	139	98.8	105			6.08
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.9	77.1	79.9			3.57
	Perfluoro-1-butane sulfonamide (FBSA)	127	119	119			0.0767
	Perfluoro-1-butane sulfonamide (FBSA)	156					0.337
	Perfluoro-1-hexane sulfonamide (FHxSA)	114	120	121			0.414
	Perfluoro-1-hexane sulfonamide (FHxSA)	154	157	154			1.87
	Perfluoro-1-octane sulfonamide (FOSA)	96.2	98.7	94.7			4.14
	Perfluoro-1-octane sulfonamide (FOSA)	95.7	102	96.6			5.34
	Perfluoro-3-methoxypropanoic acid (PFMPA)	111	85.3	78.3			8.56
	Perfluoro-3-methoxypropanoic acid (PFMPA)	110	105	105			0.476

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery	LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	86.9	73.5 74.3			1.08
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.9	91.6 84.5			8.06
	Perfluoro-4-methoxybutanoic acid (PFMBA)	63.8	63.0 67.6			7.04
	Perfluoro-4-methoxybutanoic acid (PFMBA)	96.5	114 111			2.93
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	129	125 109			13.5
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	138	119 117			1.44
	Perfluorobutanesulfonic acid (PFBS)	104	84.4 75.4			4.50
	Perfluorobutanesulfonic acid (PFBS)	113				3.98
	Perfluorobutanoic acid (PFBA)	124	116 136			8.40
	Perfluorobutanoic acid (PFBA)	121	93.9 96.9			1.59
	Perfluorodecanesulfonic acid (PFDS)	114	89.6 75.3			17.3
	Perfluorodecanesulfonic acid (PFDS)	97.7	90.0 88.2			2.02
	Perfluorodecanoic acid (PFDA)	91.5	81.0 89.9			10.4
	Perfluorodecanoic acid (PFDA)	83.5	113 101			11.2
	Perfluorododecanoic acid (PFDoA)	89.2	83.1 66.5			22.2
	Perfluorododecanoic acid (PFDoA)	88.3	90.9 77.5			15.9
	Perfluoroheptanesulfonic acid (PFHpS)	73.1	68.6 69.1			0.726
	Perfluoroheptanesulfonic acid (PFHpS)	76.2	86.3 78.8			9.09
	Perfluoroheptanoic acid (PFHpA)	111	98.8 96.5			1.79
	Perfluoroheptanoic acid (PFHpA)	91.8	103 99.6			1.67
	Perfluorohexanesulfonic acid (PFHxS)	106	89.3 84.1			5.05
	Perfluorohexanesulfonic acid (PFHxS)	85.9	103 85.8			9.74
	Perfluorohexanoic acid (PFHxA)	109	78.2 91.6			8.06
	Perfluorohexanoic acid (PFHxA)	109				0.115
	Perfluorononanesulfonic acid (PFNS)	106	106 99.4			6.80
	Perfluorononanesulfonic acid (PFNS)	106	104 95.3			9.21
	Perfluorononanoic acid (PFNA)	83.2	90.0 92.3			2.52
	Perfluorononanoic acid (PFNA)	77.2	72.6 89.5			17.3
	Perfluorooctanesulfonic acid (PFOS)	98.8	93.7 129			12.6
	Perfluorooctanesulfonic acid (PFOS)	98.9				3.92
	Perfluorooctanoic acid (PFOA)	109	111 94.3			11.6
	Perfluorooctanoic acid (PFOA)	116	78.1 47.6			13.2
	Perfluoropentanesulfonic acid (PFPeS)	110	116 108			6.96
	Perfluoropentanesulfonic acid (PFPeS)	133	109 108			1.18
	Perfluoropentanoic acid (PFPeA)	109	112 122			3.50
	Perfluoropentanoic acid (PFPeA)	98.7				3.31
	Perfluoropropanesulfonic acid (PFPrS)	150	156 116			28.8

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	151	95.6	112		15.9
	Perfluorotetradecanoic acid (PFTeA)	106	92.2	96.0		4.04
	Perfluorotetradecanoic acid (PFTeA)	87.0	105	92.0		13.2
	Perfluorotridecanoic acid (PFTriA)	158	123	102		19.0
	Perfluorotridecanoic acid (PFTriA)	143	96.4	114		16.6
	Perfluoroundecanoic acid (PFUnA)	99.4	95.2	74.6		24.3
	Perfluoroundecanoic acid (PFUnA)	102	84.2	89.7		6.33

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2309190, 2309191, 2309192, 2309193, 2309194, 2309195, 2309196, 2309197, 2309198, 2309199, 2309200, 2309201, 2309202, 2309203, 2309204

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 11:14	Mohammad Ghaffari	2309190
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 11:36	Mohammad Ghaffari	2309191
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 11:47	Mohammad Ghaffari	2309192
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 11:58	Mohammad Ghaffari	2309193
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 12:08	Mohammad Ghaffari	2309194
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 12:19	Mohammad Ghaffari	2309195
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 12:30	Mohammad Ghaffari	2309196
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 12:41	Mohammad Ghaffari	2309197
	03/02/2022	03/07/2022 09:00	Hoor Shaik	03/08/2022 12:52	Mohammad Ghaffari	2309198
	03/02/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 08:21	Mohammad Ghaffari	2309199
	03/02/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 10:09	Mohammad Ghaffari	2309200
	03/02/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 10:20	Mohammad Ghaffari	2309201
	03/02/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 10:31	Mohammad Ghaffari	2309202
	03/02/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 10:42	Mohammad Ghaffari	2309203
	03/02/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 10:52	Mohammad Ghaffari	2309204

Chemical Analysis Report

SIS-2022-03-04-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **FSFC Soil and GW Sampling February 21 2022**

Request ID: **RQ-2022-02-21-67**

Customer: **SIS**

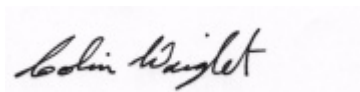
Project ID: **FC-MARION**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: David Meyers

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 23-MAR-2022 15:32

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 09:04

Field ID: SP-22(61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310294	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	11		ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	66		ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	5.0	I	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.4	I	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	36		ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	9.9		ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	7.0		ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410695	

Field ID: SP-22(61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310294	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 09:28

Field ID: SP-22(71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310295	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	12		ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	47		ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	3.2	I	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	13		ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	8.1		ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.82	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.82	I	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.82	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P410695	

Field ID: SP-22(71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310295	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P410695	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.2	U	ng/L	P410695	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 09:56

Field ID: SP-22(81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310296	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.72	I	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.6	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.6	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	3.6	I	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.3	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.3	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.3	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.3	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	1.1	I	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.93	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.46	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.46	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.46	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.93	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.93	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.46	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.93	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.93	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.6	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.6	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.6	U	ng/L	P410695	

Field ID: SP-22(81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310296	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.6	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.3	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 09:58

Field ID: SP-22(81-85') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310297	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.78	I	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.6	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.6	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	2.8	I	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.3	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.3	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.3	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.3	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.76	I	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.93	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.46	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.46	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.46	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.93	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.93	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.46	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.93	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.93	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.6	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.6	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.6	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.6	U	ng/L	P410695	

Field ID: SP-22(81-85') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310297	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.6	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.3	U	ng/L	P410695	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 10:21

Field ID: SP-22(91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310298	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.4	I	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	9.0		ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	6.4	I	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	1.6	I	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.90	I	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P410695	

Field ID: SP-22(91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310298	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 10:50

Field ID: SP-22(101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310299	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	9.3		ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.8	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.8	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.4	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.4	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	48		ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.9	I	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.4	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.4	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	27		ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.4	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.4	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.4	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.4	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	9.0		ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.95	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.48	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.48	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.48	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	5.1		ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.95	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.48	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.4	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.4	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.4	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.4	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.95	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.95	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.8	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.8	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.8	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.8	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.8	U	ng/L	P410695	

Field ID: SP-22(101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310299	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.8	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.5	U	ng/L	P410695	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 10:57

Field ID: FRB-35

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310300	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410695	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410695	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410695	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410695	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410695	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410695	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410695	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410695	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410695	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410695	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410695	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410695	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410695	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410695	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410695	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410695	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410695	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410695	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410695	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410695	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410695	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410695	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410695	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410695	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410695	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410695	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410695	RPD
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410695	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410695	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410695	

Field ID: FRB-35

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310300	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410695	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410695	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for some analytes could not be assessed due to a high concentration of parameters in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 11:25

Field ID: SP-22(111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310301	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	79		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	2.9	I	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	23		ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	3.6	I	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	12		ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	I	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.3		ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.86	I	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P410740	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.84	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.84	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P410740	

Field ID: SP-22(111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310301	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.4	U	ng/L	P410740	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 17:54

Field ID: SP-25(91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310302	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	36		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	5.9	I	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	6.0	I	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	260		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	24		ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.6	I	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	21		ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	120		ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	13		ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	38		ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	4.1		ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	82		ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	69		ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: SP-25(91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310302	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	10	I	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 08:53

Field ID: SP-25(101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310303	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	51		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	2.9	I	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	13		ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	2.5	I	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	13		ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.85	I	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	9.9		ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.2	I	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: SP-25(101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310303	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 09:30

Field ID: SP-25(111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310304	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	14		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	89		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	6.4	I	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	5.5	I	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	52		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.5	I	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	17		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.6	I	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	30		ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	16		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.90	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.90	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P411116	

Field ID: SP-25(111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310304	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.0	U	ng/L	P411116	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased. Results confirmed in re-extraction.

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 09:32

Field ID: SP-25(111-115') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310305	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	13		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.3	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	70		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	6.1	I	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.3	U	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	4.6	I	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	37		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.6	I	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	16		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	I	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	24		ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	8.2		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.90	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.90	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P411116	

Field ID: SP-25(111-115') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310305	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.0	U	ng/L	P411116	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased. Results confirmed in re-extraction.

Sample Location: Florida State Fire College

Collection Date/Time: 03/02/2022 12:45

Field ID: EQB-82

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310306	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: EQB-82

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310306	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 16:16

Field ID: SP-34(61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310307	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	9.6		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	48		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	2.9	I	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	3.5	I	ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	2.4	I	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	7.3		ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.5	I	ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: SP-34(61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310307	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 16:20

Field ID: SP-34(61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310308	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	8.1		ng/L	P410740	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410740	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410740	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410740	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410740	
		Perfluorohexanesulfonic acid (PFHxS)**	44		ng/L	P410740	
		Perfluorohexanoic acid (PFHxA)**	3.1	I	ng/L	P410740	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410740	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410740	
		Perfluorooctanesulfonic acid (PFOS)**	4.3	I	ng/L	P410740	
		Perfluoropentanoic acid (PFPeA)**	2.5	I	ng/L	P410740	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410740	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410740	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410740	
		Perfluoropentanesulfonic acid (PFPeS)**	7.2		ng/L	P410740	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410740	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410740	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410740	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410740	
		Perfluoro-1-butane sulfonamide (FBSA)**	3.0	I	ng/L	P410740	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410740	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410740	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410740	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410740	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410740	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410740	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410740	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410740	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410740	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410740	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410740	

Field ID: SP-34(61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2310308	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410740	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410740	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. Results may be biased.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3
Batch ID: P411116

Component	Result	Code	Units
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.2		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	108		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.8		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.9		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	156		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	154		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.7		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.9		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	96.5		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	138		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	113		P	30 - 160
Perfluorobutanoic acid (PFBA)	121		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	97.7		P	30 - 160
Perfluorodecanoic acid (PFDA)	83.5		P	30 - 160
Perfluorododecanoic acid (PFDoA)	88.3		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.2		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	91.8		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	85.9		P	30 - 160
Perfluorohexanoic acid (PFHxA)	109		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	106		P	30 - 160
Perfluorononanoic acid (PFNA)	77.2		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	98.9		P	30 - 160
Perfluorooctanoic acid (PFOA)	116		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	133		P	30 - 160
Perfluoropentanoic acid (PFPeA)	98.7		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	151		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	87.0		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	143		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	102		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	127		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	157		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	130		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	159		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	156		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	104		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	136		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	139		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	141		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	148		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	144		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	117		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	156		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	152		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	133		P	30 - 160
Perfluorobutanoic acid (PFBA)	128		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	136		P	30 - 160
Perfluorodecanoic acid (PFDA)	116		P	30 - 160
Perfluorododecanoic acid (PFDoA)	119		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	105		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	142		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	125		P	30 - 160
Perfluorohexanoic acid (PFHxA)	132		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	135		P	30 - 160
Perfluorononanoic acid (PFNA)	134		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	116		P	30 - 160
Perfluorooctanoic acid (PFOA)	137		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	143		P	30 - 160
Perfluoropentanoic acid (PFPeA)	156		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	134		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	107		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	142		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	100		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.1		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.2		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.9		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	113		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	106		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.7		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	85.5		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	140		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	133		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	117		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	101		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	114		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.6		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	129		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	110		P	30 - 160
Perfluorobutanoic acid (PFBA)	98.2		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	100		P	30 - 160
Perfluorodecanoic acid (PFDA)	101		P	30 - 160
Perfluorododecanoic acid (PFDoA)	88.1		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P411116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoroheptanesulfonic acid (PFHpS)	83.6		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	104		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.8		P	30 - 160
Perfluorohexanoic acid (PFHxA)	107		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	104		P	30 - 160
Perfluorononanoic acid (PFNA)	86.8		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	98.9		P	30 - 160
Perfluorooctanoic acid (PFOA)	127		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	120		P	30 - 160
Perfluoropentanoic acid (PFPeA)	105		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.2		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	109		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	157		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	103		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2309268	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	81.9	79.4	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	107	84.3	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	94.6	P/P	30 - 160
2309268	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	94.4	P/P	30 - 160
2309268	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	125	123	P/P	30 - 160
2309268	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	106	95.0	P/P	30 - 160
2309268	Hexafluoropropylene oxide dimer acid (HFPO-DA)	62.5	103	P/P	30 - 160
2309268	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	110	103	P/P	30 - 160
2309268	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	106	88.0	P/P	30 - 160
2309268	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	77.1	79.9	P/P	30 - 160
2309268	Perfluoro-1-hexane sulfonamide (FHxSA)	157	154	P/P	30 - 160
2309268	Perfluoro-1-octane sulfonamide (FOSA)	102	96.6	P/P	30 - 160
2309268	Perfluoro-3-methoxypropanoic acid (PFMPA)	105	105	P/P	30 - 160
2309268	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	91.6	84.5	P/P	30 - 160
2309268	Perfluoro-4-methoxybutanoic acid (PFMBA)	114	111	P/P	30 - 160
2309268	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	117	P/P	30 - 160
2309268	Perfluorobutanoic acid (PFBA)	93.9	96.9	P/P	30 - 160
2309268	Perfluorodecanesulfonic acid (PFDS)	90.0	88.2	P/P	30 - 160
2309268	Perfluorodecanoic acid (PFDA)	113	101	P/P	30 - 160
2309268	Perfluorododecanoic acid (PFDoA)	90.9	77.5	P/P	30 - 160
2309268	Perfluoroheptanesulfonic acid (PFHpS)	86.3	78.8	P/P	30 - 160
2309268	Perfluoroheptanoic acid (PFHpA)	103	99.6	P/P	30 - 160
2309268	Perfluorohexanesulfonic acid (PFHxS)	103	85.8	P/P	30 - 160
2309268	Perfluorononanesulfonic acid (PFNS)	104	95.3	P/P	30 - 160
2309268	Perfluorononanoic acid (PFNA)	72.6	89.5	P/P	30 - 160
2309268	Perfluorooctanoic acid (PFOA)	78.1	47.6	P/P	30 - 160
2309268	Perfluoropentanesulfonic acid (PFPeS)	109	108	P/P	30 - 160
2309268	Perfluoropropanesulfonic acid (PFPrS)	95.6	112	P/P	30 - 160
2309268	Perfluorotetradecanoic acid (PFTeA)	105	92.0	P/P	30 - 160
2309268	Perfluorotridecanoic acid (PFTriA)	96.4	114	P/P	30 - 160
2309268	Perfluoroundecanoic acid (PFUnA)	84.2	89.7	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310325	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	80.5	75.1	P/P	30 - 160
2310325	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	134	136	P/P	30 - 160
2310325	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	126	121	P/P	30 - 160
2310325	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	157	144	P/P	30 - 160
2310325	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	155	159	P/P	30 - 160
2310325	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	137	125	P/P	30 - 160
2310325	Hexafluoropropylene oxide dimer acid (HFPO-DA)	111	93.1	P/P	30 - 160
2310325	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	114	118	P/P	30 - 160
2310325	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114	112	P/P	30 - 160
2310325	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	147	153	P/P	30 - 160
2310325	Perfluoro-1-butane sulfonamide (FBSA)	156	156	P/P	30 - 160
2310325	Perfluoro-1-hexane sulfonamide (FHxSA)	156	156	P/P	30 - 160
2310325	Perfluoro-1-octane sulfonamide (FOSA)	134	128	P/P	30 - 160
2310325	Perfluoro-3-methoxypropanoic acid (PFMPA)	144	144	P/P	30 - 160
2310325	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	105	114	P/P	30 - 160
2310325	Perfluoro-4-methoxybutanoic acid (PFMBA)	139	130	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310325	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	156	148	P/P	30 - 160
2310325	Perfluorobutanesulfonic acid (PFBS)	137	121	P/P	30 - 160
2310325	Perfluorobutanoic acid (PFBA)	118	121	P/P	30 - 160
2310325	Perfluorodecanesulfonic acid (PFDS)	94.1	79.4	P/P	30 - 160
2310325	Perfluorodecanoic acid (PFDA)	103	107	P/P	30 - 160
2310325	Perfluorododecanoic acid (PFDoA)	87.8	97.3	P/P	30 - 160
2310325	Perfluoroheptanesulfonic acid (PFHpS)	93.6	96.8	P/P	30 - 160
2310325	Perfluoroheptanoic acid (PFHpA)	118	130	P/P	30 - 160
2310325	Perfluorohexanesulfonic acid (PFHxS)	105	115	P/P	30 - 160
2310325	Perfluorohexanoic acid (PFHxA)	132	137	P/P	30 - 160
2310325	Perfluorononanesulfonic acid (PFNS)	114	105	P/P	30 - 160
2310325	Perfluorononanoic acid (PFNA)	96.7	91.5	P/P	30 - 160
2310325	Perfluorooctanesulfonic acid (PFOS)	110	112	P/P	30 - 160
2310325	Perfluorooctanoic acid (PFOA)	156	153	P/P	30 - 160
2310325	Perfluoropentanesulfonic acid (PFPeS)	151	133	P/P	30 - 160
2310325	Perfluoropentanoic acid (PFPeA)	157	137	P/P	30 - 160
2310325	Perfluoropropanesulfonic acid (PFPrS)	129	110	P/P	30 - 160
2310325	Perfluorotetradecanoic acid (PFTeA)	119	116	P/P	30 - 160
2310325	Perfluorotridecanoic acid (PFTriA)	145	152	P/P	30 - 160
2310325	Perfluoroundecanoic acid (PFUnA)	98.9	117	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312311	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	64.8	61.0	P/P	30 - 160
2312311	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	108	125	P/P	30 - 160
2312311	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.3	90.4	P/P	30 - 160
2312311	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	118	P/P	30 - 160
2312311	4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	151	155	P/P	30 - 160
2312311	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	91.3	113	P/P	30 - 160
2312311	Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.8	90.2	P/P	30 - 160
2312311	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	112	105	P/P	30 - 160
2312311	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	80.5	80.9	P/P	30 - 160
2312311	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	114	125	P/P	30 - 160
2312311	Perfluoro-1-butane sulfonamide (FBSA)	129	129	P/P	30 - 160
2312311	Perfluoro-1-hexane sulfonamide (FHxSA)	120	119	P/P	30 - 160
2312311	Perfluoro-1-octane sulfonamide (FOSA)	105	109	P/P	30 - 160
2312311	Perfluoro-3-methoxypropanoic acid (PFMPA)	121	125	P/P	30 - 160
2312311	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.8	88.0	P/P	30 - 160
2312311	Perfluoro-4-methoxybutanoic acid (PFMBA)	137	128	P/P	30 - 160
2312311	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	116	120	P/P	30 - 160
2312311	Perfluorobutanesulfonic acid (PFBS)	94.8	112	P/P	30 - 160
2312311	Perfluorobutanoic acid (PFBA)	139	131	P/P	30 - 160
2312311	Perfluorodecanesulfonic acid (PFDS)	67.5	62.9	P/P	30 - 160
2312311	Perfluorodecanoic acid (PFDA)	89.5	112	P/P	30 - 160
2312311	Perfluorododecanoic acid (PFDoA)	91.5	101	P/P	30 - 160
2312311	Perfluoroheptanesulfonic acid (PFHpS)	75.3	79.9	P/P	30 - 160
2312311	Perfluoroheptanoic acid (PFHpA)	116	122	P/P	30 - 160
2312311	Perfluorohexanesulfonic acid (PFHxS)	95.8	95.1	P/P	30 - 160
2312311	Perfluorohexanoic acid (PFHxA)	117	90.3	P/P	30 - 160
2312311	Perfluorononanesulfonic acid (PFNS)	82.3	78.7	P/P	30 - 160

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312311	Perfluorononanoic acid (PFNA)	96.0	91.5	P/P	30 - 160
2312311	Perfluorooctanesulfonic acid (PFOS)	104	104	P/P	30 - 160
2312311	Perfluorooctanoic acid (PFOA)	112	128	P/P	30 - 160
2312311	Perfluoropentanesulfonic acid (PFPeS)	118	118	P/P	30 - 160
2312311	Perfluoropentanoic acid (PFPeA)	114	128	P/P	30 - 160
2312311	Perfluoropropanesulfonic acid (PFPrS)	115	96.1	P/P	30 - 160
2312311	Perfluorotetradecanoic acid (PFTeA)	98.2	93.0	P/P	30 - 160
2312311	Perfluorotridecanoic acid (PFTriA)	118	114	P/P	30 - 160
2312311	Perfluoroundecanoic acid (PFUnA)	99.4	82.0	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410695

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2309268	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.10	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	24.1	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.89	Spike	P	0 - 30
2309268	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.13	Spike	P	0 - 30
2309268	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.86	Spike	P	0 - 30
2309268	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	11.4	Spike	P	0 - 30
2309268	Hexafluoropropylene oxide dimer acid (HFPO-DA)	49.2	Spike	F	0 - 30
2309268	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	6.60	Spike	P	0 - 30
2309268	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18.1	Spike	P	0 - 30
2309268	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	3.57	Spike	P	0 - 30
2309268	Perfluoro-1-butane sulfonamide (FBSA)	0.337	Spike	P	0 - 30
2309268	Perfluoro-1-hexane sulfonamide (FHxSA)	1.87	Spike	P	0 - 30
2309268	Perfluoro-1-octane sulfonamide (FOSA)	5.34	Spike	P	0 - 30
2309268	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.476	Spike	P	0 - 30
2309268	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.06	Spike	P	0 - 30
2309268	Perfluoro-4-methoxybutanoic acid (PFMBA)	2.93	Spike	P	0 - 30
2309268	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.44	Spike	P	0 - 30
2309268	Perfluorobutanesulfonic acid (PFBS)	3.98	Spike	P	0 - 30
2309268	Perfluorobutanoic acid (PFBA)	1.59	Spike	P	0 - 30
2309268	Perfluorodecanesulfonic acid (PFDS)	2.02	Spike	P	0 - 30
2309268	Perfluorodecanoic acid (PFDA)	11.2	Spike	P	0 - 30
2309268	Perfluorododecanoic acid (PFDoA)	15.9	Spike	P	0 - 30
2309268	Perfluoroheptanesulfonic acid (PFHpS)	9.09	Spike	P	0 - 30
2309268	Perfluoroheptanoic acid (PFHpA)	1.67	Spike	P	0 - 30
2309268	Perfluorohexanesulfonic acid (PFHxS)	9.74	Spike	P	0 - 30
2309268	Perfluorohexanoic acid (PFHxA)	0.115	Spike	P	0 - 30
2309268	Perfluorononanesulfonic acid (PFNS)	9.21	Spike	P	0 - 30
2309268	Perfluorononanoic acid (PFNA)	17.3	Spike	P	0 - 30
2309268	Perfluorooctanesulfonic acid (PFOS)	3.92	Spike	P	0 - 30
2309268	Perfluorooctanoic acid (PFOA)	13.2	Spike	P	0 - 30
2309268	Perfluoropentanesulfonic acid (PFPeS)	1.18	Spike	P	0 - 30
2309268	Perfluoropentanoic acid (PFPeA)	3.31	Spike	P	0 - 30
2309268	Perfluoropropanesulfonic acid (PFPrS)	15.9	Spike	P	0 - 30
2309268	Perfluorotetradecanoic acid (PFTeA)	13.2	Spike	P	0 - 30
2309268	Perfluorotridecanoic acid (PFTriA)	16.6	Spike	P	0 - 30
2309268	Perfluoroundecanoic acid (PFUnA)	6.33	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310325	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.94	Spike	P	0 - 30
2310325	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	1.04	Spike	P	0 - 30
2310325	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	3.49	Spike	P	0 - 30
2310325	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.64	Spike	P	0 - 30
2310325	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.49	Spike	P	0 - 30
2310325	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	8.62	Spike	P	0 - 30
2310325	Hexafluoropropylene oxide dimer acid (HFPO-DA)	17.9	Spike	P	0 - 30
2310325	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.88	Spike	P	0 - 30
2310325	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.48	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410740

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310325	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.06	Spike	P	0 - 30
2310325	Perfluoro-1-butane sulfonamide (FBSA)	0.0639	Spike	P	0 - 30
2310325	Perfluoro-1-hexane sulfonamide (FHxSA)	0.192	Spike	P	0 - 30
2310325	Perfluoro-1-octane sulfonamide (FOSA)	4.28	Spike	P	0 - 30
2310325	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.278	Spike	P	0 - 30
2310325	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	7.93	Spike	P	0 - 30
2310325	Perfluoro-4-methoxybutanoic acid (PFMBA)	6.60	Spike	P	0 - 30
2310325	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.53	Spike	P	0 - 30
2310325	Perfluorobutanesulfonic acid (PFBS)	12.4	Spike	P	0 - 30
2310325	Perfluorobutanoic acid (PFBA)	2.76	Spike	P	0 - 30
2310325	Perfluorodecanesulfonic acid (PFDS)	16.9	Spike	P	0 - 30
2310325	Perfluorodecanoic acid (PFDA)	3.14	Spike	P	0 - 30
2310325	Perfluorododecanoic acid (PFDoA)	10.3	Spike	P	0 - 30
2310325	Perfluoroheptanesulfonic acid (PFHpS)	3.36	Spike	P	0 - 30
2310325	Perfluoroheptanoic acid (PFHpA)	9.36	Spike	P	0 - 30
2310325	Perfluorohexanesulfonic acid (PFHxS)	8.93	Spike	P	0 - 30
2310325	Perfluorohexanoic acid (PFHxA)	3.20	Spike	P	0 - 30
2310325	Perfluorononanesulfonic acid (PFNS)	7.58	Spike	P	0 - 30
2310325	Perfluorononanoic acid (PFNA)	5.53	Spike	P	0 - 30
2310325	Perfluorooctanesulfonic acid (PFOS)	1.35	Spike	P	0 - 30
2310325	Perfluorooctanoic acid (PFOA)	1.49	Spike	P	0 - 30
2310325	Perfluoropentanesulfonic acid (PFPeS)	12.7	Spike	P	0 - 30
2310325	Perfluoropentanoic acid (PFPeA)	13.8	Spike	P	0 - 30
2310325	Perfluoropropanesulfonic acid (PFPrS)	15.7	Spike	P	0 - 30
2310325	Perfluorotetradecanoic acid (PFTeA)	2.37	Spike	P	0 - 30
2310325	Perfluorotridecanoic acid (PFTriA)	4.18	Spike	P	0 - 30
2310325	Perfluoroundecanoic acid (PFUnA)	16.8	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312311	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.04	Spike	P	0 - 30
2312311	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	14.5	Spike	P	0 - 30
2312311	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.32	Spike	P	0 - 30
2312311	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.09	Spike	P	0 - 30
2312311	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.29	Spike	P	0 - 30
2312311	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	21.2	Spike	P	0 - 30
2312311	Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.02	Spike	P	0 - 30
2312311	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	6.56	Spike	P	0 - 30
2312311	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.496	Spike	P	0 - 30
2312311	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9.71	Spike	P	0 - 30
2312311	Perfluoro-1-butane sulfonamide (FBSA)	0.138	Spike	P	0 - 30
2312311	Perfluoro-1-hexane sulfonamide (FHxSA)	0.670	Spike	P	0 - 30
2312311	Perfluoro-1-octane sulfonamide (FOSA)	4.02	Spike	P	0 - 30
2312311	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.09	Spike	P	0 - 30
2312311	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.53	Spike	P	0 - 30
2312311	Perfluoro-4-methoxybutanoic acid (PFMBA)	6.73	Spike	P	0 - 30
2312311	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.74	Spike	P	0 - 30
2312311	Perfluorobutanesulfonic acid (PFBS)	11.0	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312311	Perfluorobutanoic acid (PFBA)	5.92	Spike	P	0 - 30
2312311	Perfluorodecanesulfonic acid (PFDS)	7.06	Spike	P	0 - 30
2312311	Perfluorodecanoic acid (PFDA)	22.3	Spike	P	0 - 30
2312311	Perfluorododecanoic acid (PFDoA)	9.57	Spike	P	0 - 30
2312311	Perfluoroheptanesulfonic acid (PFHpS)	5.93	Spike	P	0 - 30
2312311	Perfluoroheptanoic acid (PFHpA)	5.04	Spike	P	0 - 30
2312311	Perfluorohexanesulfonic acid (PFHxS)	0.528	Spike	P	0 - 30
2312311	Perfluorohexanoic acid (PFHxA)	21.6	Spike	P	0 - 30
2312311	Perfluorononanesulfonic acid (PFNS)	4.47	Spike	P	0 - 30
2312311	Perfluorononanoic acid (PFNA)	4.80	Spike	P	0 - 30
2312311	Perfluorooctanesulfonic acid (PFOS)	0.135	Spike	P	0 - 30
2312311	Perfluorooctanoic acid (PFOA)	11.1	Spike	P	0 - 30
2312311	Perfluoropentanesulfonic acid (PFPeS)	0.388	Spike	P	0 - 30
2312311	Perfluoropentanoic acid (PFPeA)	11.1	Spike	P	0 - 30
2312311	Perfluoropropanesulfonic acid (PFPrS)	17.7	Spike	P	0 - 30
2312311	Perfluorotetradecanoic acid (PFTeA)	5.44	Spike	P	0 - 30
2312311	Perfluorotridecanoic acid (PFTriA)	3.71	Spike	P	0 - 30
2312311	Perfluoroundecanoic acid (PFUnA)	19.2	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2310294

Field Sample ID: SP-22(61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	139	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.1	P	30 - 160

Lab Sample ID: 2310295

Field Sample ID: SP-22(71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	142	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	133	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	107	P	30 - 160

Lab Sample ID: 2310296

Field Sample ID: SP-22(81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	133	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	130	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	120	P	30 - 160

Lab Sample ID: 2310297

Field Sample ID: SP-22(81-85') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	69.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	137	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.3	P	30 - 160

Lab Sample ID: 2310298

Field Sample ID: SP-22(91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	148	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	108	P	30 - 160

Lab Sample ID: 2310299

Field Sample ID: SP-22(101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	141	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	99.7	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2310299
Field Sample ID: SP-22(101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	157	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	101	P	30 - 160

Lab Sample ID: 2310300
Field Sample ID: FRB-35

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	94.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	99.2	P	30 - 160

Lab Sample ID: 2310301
Field Sample ID: SP-22(111-115')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	86.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	77.5	P	30 - 160

Lab Sample ID: 2310302
Field Sample ID: SP-25(91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	81.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	147	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	85.7	P	30 - 160

Lab Sample ID: 2310303
Field Sample ID: SP-25(101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	55.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	77.3	P	30 - 160

Lab Sample ID: 2310304
Field Sample ID: SP-25(111-115')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.3	P	30 - 160
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	55.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.7	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2310304

Field Sample ID: SP-25(111-115')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	149	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	138	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	81.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

Lab Sample ID: 2310305

Field Sample ID: SP-25(111-115') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	44.9	P	30 - 160
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	84.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	95.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.7	P	30 - 160

Lab Sample ID: 2310306

Field Sample ID: EQB-82

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	82.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	92.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	81.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	75.2	P	30 - 160

Lab Sample ID: 2310307

Field Sample ID: SP-34(61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	82.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2310308

Field Sample ID: SP-34(61-65') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	90.3	P	30 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110839

Included Lab Sample IDs: 2310294, 2310295, 2310296, 2310297, 2310298, 2310299, 2310300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	108	94.3	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	114	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	111	86.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.6	84.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	109	96.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.4	90.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	110	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	95.5	88.3	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	111	148	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153	160	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	101	110	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	112	110	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.6	96.1	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	91.0	85.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.6	97.9	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.0	87.3	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	101	91.8	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	98.1	81.8	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	123	138	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	97.2	105	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	140	134	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	145	146	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	140	139	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	99.7	131	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	108	106	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.2	102	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	108	118	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110	108	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	77.1	87.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	87.0	79.3	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	104	101	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112	108	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	130	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	123	127	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.1	98.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	95.8	104	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	109	122	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	115	123	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	116	103	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	120	108	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	69.5	96.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	89.3	73.6	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	70.2	82.4	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	86.1	97.1	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	71.0	73.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	79.4	74.7	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	108	93.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	97.8	103	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	86.3	83.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.6	92.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	111	87.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110839

Included Lab Sample IDs: 2310294, 2310295, 2310296, 2310297, 2310298, 2310299, 2310300

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorohexanoic acid (PFHxA)	98.3	94.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	113	100	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	114	109	P/P	60 - 160
Perfluorononanoic acid (PFNA)	86.4	105	P/P	60 - 160
Perfluorononanoic acid (PFNA)	93.1	82.8	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	84.1	93.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	92.6	87.9	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	116	119	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	122	105	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	117	109	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	67.5	116	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	100	115	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	109	107	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	87.9	76.7	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	94.6	71.9	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	90.7	83.3	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	98.4	82.2	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	133	140	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	158	127	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	91.8	88.8	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	95.7	108	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310301, 2310302, 2310303, 2310306, 2310307, 2310308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105	96.0	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.4	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	113	84.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	129	113	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.2	96.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.7	91.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	116	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	93.5	116	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	115	118	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	118	142	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	120	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	98.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	83.7	94.9	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	94.9	78.2	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	83.1	104	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.8	93.4	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.4	100	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	106	142	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	126	106	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	124	130	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	126	124	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	120	123	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	122	120	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2310301, 2310302, 2310303, 2310306, 2310307, 2310308

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-octane sulfonamide (FOSA)	105	99.8	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	99.8	105	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	115	112	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	116	115	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	79.9	88.0	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	88.0	75.7	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	106	112	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112	109	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	118	124	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	127	118	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.2	100	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	99.1	98.2	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	93.5	91.7	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	98.1	93.5	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	104	105	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	105	95.1	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	80.0	73.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	95.4	80.0	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	103	87.2	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	87.2	83.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.1	83.1	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	83.1	72.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	107	116	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	91.8	107	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	85.4	93.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.7	87.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	107	86.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	86.1	81.3	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	101	99.7	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	95.2	101	P/P	60 - 160
Perfluorononanoic acid (PFNA)	80.4	94.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	94.8	89.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	87.2	86.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	91.2	87.2	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	121	122	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.1	121	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	109	120	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	110	109	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	110	118	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	110	110	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	90.6	89.8	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	94.5	90.6	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	80.8	81.8	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	81.8	87.9	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	122	104	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	97.8	122	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	103	97.8	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	104	103	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111038

Included Lab Sample IDs: 2310304, 2310305

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	108	96.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	116	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	110	100	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	97.5	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	130	125	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	109	105	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	90.0	81.4	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	102	104	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	78.5	86.8	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125	121	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	155	137	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	143	122	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	108	105	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	123	122	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.1	78.3	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	119	121	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	107	130	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	101	103	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	88.7	96.4	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	110	101	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	67.8	88.3	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	87.6	81.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	78.0	75.3	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	102	97.1	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.4	91.8	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	104	94.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	104	93.4	P/P	60 - 160
Perfluorononanoic acid (PFNA)	78.0	71.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	98.2	105	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	134	111	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	112	127	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	115	118	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	92.7	69.5	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	94.5	95.2	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	109	134	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	86.3	96.5	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0	81.9	79.4			3.10
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	127	80.5	75.1			6.94
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.1	64.8	61.0			6.04
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.2	107	84.3			24.1
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	157	134	136			1.04
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	108	125			14.5
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	115	103	94.6			8.89
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	130	126	121			3.49
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.2	96.3	90.4			6.32
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	109	102	94.4			8.13
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	159	157	144			8.64
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.9	108	118			9.09
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	152	125	123			1.86
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158	155	159			2.49
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	113	151	155			2.29
	9-Chlorohexadecafluoro-3-oxanona-1-sulfonic acid (9Cl-PF3ONS)	105	106	95.0			11.4
	9-Chlorohexadecafluoro-3-oxanona-1-sulfonic acid (9Cl-PF3ONS)	156	137	125			8.62
	9-Chlorohexadecafluoro-3-oxanona-1-sulfonic acid (9Cl-PF3ONS)	106	91.3	113			21.2
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	108	62.5	103			49.2
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	104	111	93.1			17.9
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	95.8	90.2			6.02
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.6	110	103			6.60
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	136	114	118			3.88
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.7	112	105			6.56
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.8	106	88.0			18.1
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	121	114	112			2.48
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	85.5	80.5	80.9			0.496

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	81.9	77.1	79.9			3.57
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125	147	153			4.06
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	140	114	125			9.71
	Perfluoro-1-butane sulfonamide (FBSA)	156					0.337
	Perfluoro-1-butane sulfonamide (FBSA)	139	156	156			0.0639
	Perfluoro-1-butane sulfonamide (FBSA)	133	129	129			0.138
	Perfluoro-1-hexane sulfonamide (FHxSA)	154	157	154			1.87
	Perfluoro-1-hexane sulfonamide (FHxSA)	141	156	156			0.192
	Perfluoro-1-hexane sulfonamide (FHxSA)	117	120	119			0.670
	Perfluoro-1-octane sulfonamide (FOSA)	95.7	102	96.6			5.34
	Perfluoro-1-octane sulfonamide (FOSA)	148	134	128			4.28
	Perfluoro-1-octane sulfonamide (FOSA)	101	105	109			4.02
	Perfluoro-3-methoxypropanoic acid (PFMPA)	110	105	105			0.476
	Perfluoro-3-methoxypropanoic acid (PFMPA)	144	144	144			0.278
	Perfluoro-3-methoxypropanoic acid (PFMPA)	114	121	125			3.09
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.9	91.6	84.5			8.06
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	117	105	114			7.93
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.6	80.8	88.0			8.53
	Perfluoro-4-methoxybutanoic acid (PFMBA)	96.5	114	111			2.93
	Perfluoro-4-methoxybutanoic acid (PFMBA)	156	139	130			6.60
	Perfluoro-4-methoxybutanoic acid (PFMBA)	112	137	128			6.73
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	138	119	117			1.44
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	152	156	148			5.53
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	129	116	120			3.74
	Perfluorobutanesulfonic acid (PFBS)	113					3.98
	Perfluorobutanesulfonic acid (PFBS)	133	137	121			12.4
	Perfluorobutanesulfonic acid (PFBS)	110	94.8	112			11.0
	Perfluorobutanoic acid (PFBA)	121	93.9	96.9			1.59
	Perfluorobutanoic acid (PFBA)	128	118	121			2.76
	Perfluorobutanoic acid (PFBA)	98.2	139	131			5.92
	Perfluorodecanesulfonic acid (PFDS)	97.7	90.0	88.2			2.02
	Perfluorodecanesulfonic acid (PFDS)	136	94.1	79.4			16.9

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluorodecanesulfonic acid (PFDS)	100	67.5	62.9			7.06
	Perfluorodecanoic acid (PFDA)	83.5	113	101			11.2
	Perfluorodecanoic acid (PFDA)	116	103	107			3.14
	Perfluorodecanoic acid (PFDA)	101	89.5	112			22.3
	Perfluorododecanoic acid (PFDoA)	88.3	90.9	77.5			15.9
	Perfluorododecanoic acid (PFDoA)	119	87.8	97.3			10.3
	Perfluorododecanoic acid (PFDoA)	88.1	91.5	101			9.57
	Perfluoroheptanesulfonic acid (PFHpS)	76.2	86.3	78.8			9.09
	Perfluoroheptanesulfonic acid (PFHpS)	105	93.6	96.8			3.36
	Perfluoroheptanesulfonic acid (PFHpS)	83.6	75.3	79.9			5.93
	Perfluoroheptanoic acid (PFHpA)	91.8	103	99.6			1.67
	Perfluoroheptanoic acid (PFHpA)	142	118	130			9.36
	Perfluoroheptanoic acid (PFHpA)	104	116	122			5.04
	Perfluorohexanesulfonic acid (PFHxS)	85.9	103	85.8			9.74
	Perfluorohexanesulfonic acid (PFHxS)	125	105	115			8.93
	Perfluorohexanesulfonic acid (PFHxS)	88.8	95.8	95.1			0.528
	Perfluorohexanoic acid (PFHxA)	109					0.115
	Perfluorohexanoic acid (PFHxA)	132	132	137			3.20
	Perfluorohexanoic acid (PFHxA)	107	117	90.3			21.6
	Perfluorononanesulfonic acid (PFNS)	106	104	95.3			9.21
	Perfluorononanesulfonic acid (PFNS)	135	114	105			7.58
	Perfluorononanesulfonic acid (PFNS)	104	82.3	78.7			4.47
	Perfluorononanoic acid (PFNA)	77.2	72.6	89.5			17.3
	Perfluorononanoic acid (PFNA)	134	96.7	91.5			5.53
	Perfluorononanoic acid (PFNA)	86.8	96.0	91.5			4.80
	Perfluorooctanesulfonic acid (PFOS)	98.9					3.92
	Perfluorooctanesulfonic acid (PFOS)	116	110	112			1.35
	Perfluorooctanesulfonic acid (PFOS)	98.9	104	104			0.135
	Perfluorooctanoic acid (PFOA)	116	78.1	47.6			13.2
	Perfluorooctanoic acid (PFOA)	137	156	153			1.49
	Perfluorooctanoic acid (PFOA)	127	112	128			11.1
	Perfluoropentanesulfonic acid (PFPeS)	133	109	108			1.18
	Perfluoropentanesulfonic acid (PFPeS)	143	151	133			12.7
	Perfluoropentanesulfonic acid (PFPeS)	120	118	118			0.388
	Perfluoropentanoic acid (PFPeA)	98.7					3.31
	Perfluoropentanoic acid (PFPeA)	156	157	137			13.8
	Perfluoropentanoic acid (PFPeA)	105	114	128			11.1
	Perfluoropropanesulfonic acid (PFPrS)	151	95.6	112			15.9
	Perfluoropropanesulfonic acid (PFPrS)	134	129	110			15.7

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	93.2	115	96.1		17.7
	Perfluorotetradecanoic acid (PFTeA)	87.0	105	92.0		13.2
	Perfluorotetradecanoic acid (PFTeA)	107	119	116		2.37
	Perfluorotetradecanoic acid (PFTeA)	109	98.2	93.0		5.44
	Perfluorotridecanoic acid (PFTriA)	143	96.4	114		16.6
	Perfluorotridecanoic acid (PFTriA)	142	145	152		4.18
	Perfluorotridecanoic acid (PFTriA)	157	118	114		3.71
	Perfluoroundecanoic acid (PFUnA)	102	84.2	89.7		6.33
	Perfluoroundecanoic acid (PFUnA)	100	98.9	117		16.8
	Perfluoroundecanoic acid (PFUnA)	103	99.4	82.0		19.2

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2310294, 2310295, 2310296, 2310297, 2310298, 2310299, 2310300, 2310301, 2310302, 2310303, 2310304, 2310305, 2310306, 2310307, 2310308

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/04/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 08:43	Mohammad Ghaffari	2310300
	03/04/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 09:04	Mohammad Ghaffari	2310296
	03/04/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 09:15	Mohammad Ghaffari	2310297
	03/04/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 11:57	Mohammad Ghaffari	2310294
	03/04/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 12:08	Mohammad Ghaffari	2310295
	03/04/2022	03/08/2022 09:00	Hoor Shaik	03/09/2022 12:19	Mohammad Ghaffari	2310298
	03/04/2022	03/08/2022 16:00	Hoor Shaik	03/09/2022 12:30	Mohammad Ghaffari	2310299
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/11/2022 20:19	Mohammad Ghaffari	2310306
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/11/2022 21:56	Mohammad Ghaffari	2310307
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/11/2022 22:07	Mohammad Ghaffari	2310308
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/11/2022 22:39	Mohammad Ghaffari	2310301
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/11/2022 22:50	Mohammad Ghaffari	2310302
	03/04/2022	03/09/2022 09:00	Hoor Shaik	03/11/2022 23:01	Mohammad Ghaffari	2310303
	03/04/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 16:01	Mohammad Ghaffari	2310304
	03/04/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 16:12	Mohammad Ghaffari	2310305

Chemical Analysis Report

SIS-2022-03-08-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **FSFC Soil and GW Sampling February 21 2022**

Request ID: **RQ-2022-02-21-67**

Customer: **SIS**

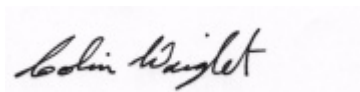
Project ID: **FC-MARION**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: David Meyers

For additional information please contact
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Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 16-MAR-2022 09:55



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 16:58

Field ID: SP-34(71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311067	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.43	I	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6	I	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.53	I	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: SP-34(71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311067	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 17:28

Field ID: SP-34(81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311068	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	2.2	I	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: SP-34(81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311068	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/03/2022 17:57

Field ID: SP-34(91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311069	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: SP-34(91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311069	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/04/2022 08:24

Field ID: SP-34(101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311070	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: SP-34(101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311070	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	88		ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/04/2022 08:52

Field ID: SP-34(111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311071	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.54	I	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: SP-34(111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311071	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/04/2022 10:11

Field ID: EQB-83

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311072	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P410908	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: EQB-83

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311072	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P410908	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/04/2022 12:32

Field ID: SP-31(84-88')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311073	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.2E+03		ng/L	P410908	
		Perfluorobutanoic acid (PFBA)**	1.3E+03		ng/L	P410908	
		Perfluorodecanoic acid (PFDA)**	4.6	I	ng/L	P410908	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P410908	
		Perfluoroheptanoic acid (PFHpA)**	880		ng/L	P410908	
		Perfluorohexanesulfonic acid (PFHxS)**	9.6E+03		ng/L	P410908	
		Perfluorohexanoic acid (PFHxA)**	2.5E+03		ng/L	P410908	
		Perfluorononanoic acid (PFNA)**	110		ng/L	P410908	
		Perfluorooctanoic acid (PFOA)**	1.3E+03		ng/L	P410908	
		Perfluorooctanesulfonic acid (PFOS)**	1.3E+04		ng/L	P410908	
		Perfluoropentanoic acid (PFPeA)**	4.0E+03		ng/L	P410908	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P410908	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P410908	
		Perfluoroundecanoic acid (PFUnA)**	7.6	I	ng/L	P410908	
		Perfluoropentanesulfonic acid (PFPeS)**	1.9E+03		ng/L	P410908	
		Perfluoroheptanesulfonic acid (PFHpS)**	260		ng/L	P410908	
		Perfluorononanesulfonic acid (PFNS)**	2.7		ng/L	P410908	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P410908	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	I	ng/L	P410908	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.4E+03		ng/L	P410908	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.0E+04		ng/L	P410908	
		Perfluoro-1-octane sulfonamide (FOSA)**	290		ng/L	P410908	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P410908	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P410908	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	4.7	I	ng/L	P410908	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.6E+03		ng/L	P410908	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	38		ng/L	P410908	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.8	I	ng/L	P410908	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P410908	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P410908	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P410908	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P410908	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P410908	

Field ID: SP-31(84-88')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2311073	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	1.2E+03		ng/L	P410908	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	14	I	ng/L	P410908	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.5		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.8		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.3		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	122		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.8		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	90.4		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.6		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	153		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	156		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	156		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	100		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	112		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	85.2		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	106		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	135		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	101		P	30 - 160
Perfluorobutanoic acid (PFBA)	94.3		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	105		P	30 - 160
Perfluorodecanoic acid (PFDA)	90.1		P	30 - 160
Perfluorododecanoic acid (PFDoA)	93.1		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	77.4		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	98.7		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.5		P	30 - 160
Perfluorohexanoic acid (PFHxA)	120		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	98.0		P	30 - 160
Perfluorononanoic acid (PFNA)	73.4		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	94.8		P	30 - 160
Perfluorooctanoic acid (PFOA)	110		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	116		P	30 - 160
Perfluoropentanoic acid (PFPeA)	126		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	114		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	84.8		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	148		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	134		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2310433	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	77.4	87.1	P/P	30 - 160
2310433	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	97.3	124	P/P	30 - 160
2310433	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	106	108	P/P	30 - 160
2310433	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	132	117	P/P	30 - 160
2310433	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	129	P/P	30 - 160
2310433	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	112	112	P/P	30 - 160
2310433	Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.9	98.1	P/P	30 - 160
2310433	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.5	112	P/P	30 - 160
2310433	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	72.6	84.1	P/P	30 - 160
2310433	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	116	108	P/P	30 - 160
2310433	Perfluoro-1-butane sulfonamide (FBSA)	134	148	P/P	30 - 160
2310433	Perfluoro-1-hexane sulfonamide (FHxSA)	137	142	P/P	30 - 160
2310433	Perfluoro-1-octane sulfonamide (FOSA)	105	111	P/P	30 - 160
2310433	Perfluoro-3-methoxypropanoic acid (PFMPA)	121	120	P/P	30 - 160
2310433	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	96.8	84.9	P/P	30 - 160
2310433	Perfluoro-4-methoxybutanoic acid (PFMBA)	116	120	P/P	30 - 160
2310433	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	117	124	P/P	30 - 160
2310433	Perfluorobutanesulfonic acid (PFBS)	92.6	103	P/P	30 - 160
2310433	Perfluorobutanoic acid (PFBA)	112	120	P/P	30 - 160
2310433	Perfluorodecanesulfonic acid (PFDS)	77.2	97.4	P/P	30 - 160
2310433	Perfluorodecanoic acid (PFDA)	92.0	89.1	P/P	30 - 160
2310433	Perfluorododecanoic acid (PFDoA)	98.7	87.4	P/P	30 - 160
2310433	Perfluoroheptanesulfonic acid (PFHpS)	82.4	79.2	P/P	30 - 160
2310433	Perfluoroheptanoic acid (PFHpA)	109	145	P/P	30 - 160
2310433	Perfluorohexanesulfonic acid (PFHxS)	105	105	P/P	30 - 160
2310433	Perfluorohexanoic acid (PFHxA)	95.1	101	P/P	30 - 160
2310433	Perfluorononanesulfonic acid (PFNS)	96.0	97.2	P/P	30 - 160
2310433	Perfluorononanoic acid (PFNA)	98.2	111	P/P	30 - 160
2310433	Perfluorooctanoic acid (PFOA)	103	91.2	P/P	30 - 160
2310433	Perfluoropentanesulfonic acid (PFPeS)	107	114	P/P	30 - 160
2310433	Perfluoropentanoic acid (PFPeA)	110	142	P/P	30 - 160
2310433	Perfluoropropanesulfonic acid (PFPrS)	110	124	P/P	30 - 160
2310433	Perfluorotetradecanoic acid (PFTeA)	122	109	P/P	30 - 160
2310433	Perfluorotridecanoic acid (PFTriA)	153	136	P/P	30 - 160
2310433	Perfluoroundecanoic acid (PFUnA)	85.7	92.6	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P410908

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2310433	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	11.8	Spike	P	0 - 30
2310433	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	23.9	Spike	P	0 - 30
2310433	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	1.59	Spike	P	0 - 30
2310433	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	11.7	Spike	P	0 - 30
2310433	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	6.33	Spike	P	0 - 30
2310433	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.269	Spike	P	0 - 30
2310433	Hexafluoropropylene oxide dimer acid (HFPO-DA)	19.2	Spike	P	0 - 30
2310433	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16.1	Spike	P	0 - 30
2310433	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	14.7	Spike	P	0 - 30
2310433	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.24	Spike	P	0 - 30
2310433	Perfluoro-1-butane sulfonamide (FBSA)	9.65	Spike	P	0 - 30
2310433	Perfluoro-1-hexane sulfonamide (FHxSA)	3.72	Spike	P	0 - 30
2310433	Perfluoro-1-octane sulfonamide (FOSA)	5.93	Spike	P	0 - 30
2310433	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.748	Spike	P	0 - 30
2310433	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	13.1	Spike	P	0 - 30
2310433	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.39	Spike	P	0 - 30
2310433	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	5.15	Spike	P	0 - 30
2310433	Perfluorobutanesulfonic acid (PFBS)	6.64	Spike	P	0 - 30
2310433	Perfluorobutanoic acid (PFBA)	4.37	Spike	P	0 - 30
2310433	Perfluorodecanesulfonic acid (PFDS)	22.1	Spike	P	0 - 30
2310433	Perfluorodecanoic acid (PFDA)	3.20	Spike	P	0 - 30
2310433	Perfluorododecanoic acid (PFDoA)	12.1	Spike	P	0 - 30
2310433	Perfluoroheptanesulfonic acid (PFHpS)	3.61	Spike	P	0 - 30
2310433	Perfluoroheptanoic acid (PFHpA)	16.7	Spike	P	0 - 30
2310433	Perfluorohexanesulfonic acid (PFHxS)	0.412	Spike	P	0 - 30
2310433	Perfluorohexanoic acid (PFHxA)	2.79	Spike	P	0 - 30
2310433	Perfluorononanesulfonic acid (PFNS)	1.24	Spike	P	0 - 30
2310433	Perfluorononanoic acid (PFNA)	11.9	Spike	P	0 - 30
2310433	Perfluorooctanesulfonic acid (PFOS)	1.82	Spike	P	0 - 30
2310433	Perfluorooctanoic acid (PFOA)	4.09	Spike	P	0 - 30
2310433	Perfluoropentanesulfonic acid (PFPeS)	6.09	Spike	P	0 - 30
2310433	Perfluoropentanoic acid (PFPeA)	11.5	Spike	P	0 - 30
2310433	Perfluoropropanesulfonic acid (PFPrS)	12.1	Spike	P	0 - 30
2310433	Perfluorotetradecanoic acid (PFTeA)	11.5	Spike	P	0 - 30
2310433	Perfluorotridecanoic acid (PFTriA)	12.1	Spike	P	0 - 30
2310433	Perfluoroundecanoic acid (PFUnA)	7.74	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2311067

Field Sample ID: SP-34(71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	66.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.8	P	30 - 160

Lab Sample ID: 2311068

Field Sample ID: SP-34(81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	157	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.2	P	30 - 160

Lab Sample ID: 2311069

Field Sample ID: SP-34(91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	58.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	152	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.3	P	30 - 160

Lab Sample ID: 2311070

Field Sample ID: SP-34(101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	67.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	95.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	153	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	97.7	P	30 - 160

Lab Sample ID: 2311071

Field Sample ID: SP-34(111-115')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	62.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	140	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.6	P	30 - 160

Lab Sample ID: 2311072

Field Sample ID: EQB-83

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	52.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	76.7	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2311072
Field Sample ID: EQB-83

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	88.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.2	P	30 - 160

Lab Sample ID: 2311073
Field Sample ID: SP-31(84-88')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	125	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	72.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	60.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	118	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2311067, 2311068, 2311069, 2311070, 2311071, 2311072, 2311073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	105	159	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	159	107	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	99.3	105	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	116	84.4	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	119	91.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	84.4	90.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	87.6	94.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.4	87.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.7	109	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	93.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	126	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.2	125	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.3	126	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	130	153	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	136	139	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	153	144	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	112	138	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	115	108	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	119	112	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	77.5	88.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	78.7	92.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.8	89.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	103	101	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	111	105	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.4	111	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	81.1	88.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	88.9	106	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.9	83.3	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	128	135	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	156	121	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	156	156	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	107	119	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	118	147	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	119	129	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	147	107	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	108	155	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	110	116	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	115	128	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	155	110	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	108	110	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.6	108	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	94.8	108	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	106	106	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	110	111	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	114	106	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	68.8	79.6	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.0	86.6	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	92.2	68.8	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	101	99.0	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	102	94.5	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	99.0	87.4	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2311067, 2311068, 2311069, 2311070, 2311071, 2311072, 2311073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	103	110	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	103	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	122	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	101	103	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	103	98.1	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.0	106	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.4	101	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	102	107	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	90.2	97.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	95.4	99.8	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	99.8	102	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	106	110	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	122	115	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	98.9	122	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	128	136	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	70.0	104	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	90.2	128	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	108	92.0	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	87.3	108	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	94.6	90.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	68.2	75.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.9	82.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.3	78.5	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	80.4	68.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	107	94.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	93.6	93.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	94.0	101	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	98.6	107	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	104	102	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	110	94.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.3	90.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.7	104	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	156	103	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	94.3	97.7	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	95.9	89.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	97.7	156	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	103	110	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	110	123	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	93.5	104	P/P	60 - 160
Perfluorononanoic acid (PFNA)	84.2	94.7	P/P	60 - 160
Perfluorononanoic acid (PFNA)	91.4	87.4	P/P	60 - 160
Perfluorononanoic acid (PFNA)	93.1	91.4	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	107	103	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	87.7	92.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	92.5	95.5	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	95.5	107	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	101	117	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	111	123	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	117	111	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	96.7	108	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	105	117	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A110904

Included Lab Sample IDs: 2311067, 2311068, 2311069, 2311070, 2311071, 2311072, 2311073

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropentanesulfonic acid (PFPeS)	109	113	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	110	109	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	113	98.5	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	101	109	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	104	101	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	113	104	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	125	111	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	127	97.5	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	85.5	102	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	87.6	73.4	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	97.5	87.6	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	120	121	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	121	110	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	91.1	87.6	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	117	119	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	128	154	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	154	147	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	111	108	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	117	111	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	99.8	85.3	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
DEP SOP: LC-001-3	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.5	77.4	87.1			11.8
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	88.8	97.3	124			23.9
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	88.3	106	108			1.59
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	122	132	117			11.7
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	127	121	129			6.33
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	120	112	112			0.269
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.8	80.9	98.1			19.2
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	90.4	95.5	112			16.1
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.6	72.6	84.1			14.7
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	153	116	108			7.24
	Perfluoro-1-butane sulfonamide (FBSA)	156	134	148			9.65
	Perfluoro-1-hexane sulfonamide (FHxSA)	156	137	142			3.72
	Perfluoro-1-octane sulfonamide (FOSA)	100	105	111			5.93
	Perfluoro-3-methoxypropanoic acid (PFMPA)	112	121	120			0.748
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	85.2	96.8	84.9			13.1
	Perfluoro-4-methoxybutanoic acid (PFMBA)	106	116	120			3.39
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	135	117	124			5.15
	Perfluorobutanesulfonic acid (PFBS)	101	92.6	103			6.64
	Perfluorobutanoic acid (PFBA)	94.3	112	120			4.37
	Perfluorodecanesulfonic acid (PFDS)	105	77.2	97.4			22.1
	Perfluorodecanoic acid (PFDA)	90.1	92.0	89.1			3.20
	Perfluorododecanoic acid (PFDoA)	93.1	98.7	87.4			12.1
	Perfluoroheptanesulfonic acid (PFHpS)	77.4	82.4	79.2			3.61
	Perfluoroheptanoic acid (PFHpA)	98.7	109	145			16.7
	Perfluorohexanesulfonic acid (PFHxS)	92.5	105	105			0.412
	Perfluorohexanoic acid (PFHxA)	120	95.1	101			2.79
	Perfluorononanesulfonic acid (PFNS)	98.0	96.0	97.2			1.24
	Perfluorononanoic acid (PFNA)	73.4	98.2	111			11.9
	Perfluorooctanesulfonic acid (PFOS)	94.8					1.82
	Perfluorooctanoic acid (PFOA)	110	103	91.2			4.09
	Perfluoropentanesulfonic acid (PFPeS)	116	107	114			6.09
	Perfluoropentanoic acid (PFPeA)	126	110	142			11.5
	Perfluoropropanesulfonic acid (PFPrS)	114	110	124			12.1

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
DEP SOP: LC-001-3	Perfluorotetradecanoic acid (PFTeA)	84.8	122	109		11.5
	Perfluorotridecanoic acid (PFTriA)	148	153	136		12.1
	Perfluoroundecanoic acid (PFUnA)	134	85.7	92.6		7.74

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2311067, 2311068, 2311069, 2311070, 2311071, 2311072, 2311073

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/12/2022 06:56	Mohammad Ghaffari	2311072
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/12/2022 09:48	Mohammad Ghaffari	2311067
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 12:16	Mohammad Ghaffari	2311068
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 12:26	Mohammad Ghaffari	2311069
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 12:37	Mohammad Ghaffari	2311070
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 12:48	Mohammad Ghaffari	2311071
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 12:59	Mohammad Ghaffari	2311073
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 16:45	Mohammad Ghaffari	2311073
	03/08/2022	03/11/2022 09:00	Hoor Shaik	03/13/2022 16:56	Mohammad Ghaffari	2311073

Chemical Analysis Report

SIS-2022-03-15-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **FSFC Soil and GW Sampling February 21 2022**

Request ID: **RQ-2022-02-21-67**

Customer: **SIS**

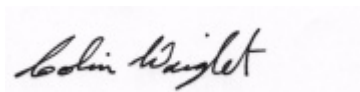
Project ID: **FC-MARION**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
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Certified by: Colin Wright, Program Administrator

Date Certified: 23-MAR-2022 16:27



Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Florida State Fire College

Collection Date/Time: 03/07/2022 09:52

Field ID: SP-31 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312373	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.0E+03		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	1.5E+03		ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	1.7E+03		ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	1.6E+04		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	3.9E+03		ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	570		ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	1.9E+03		ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	8.4E+04		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	4.9E+03		ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	3.4E+03		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1E+03		ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	3.4E+03		ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	4.8E+04		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	47		ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	4.5	I	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	7.2E+03		ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	210		ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.1	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411116	

Field ID: SP-31 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312373	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	2.8E+03		ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P411116	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/07/2022 10:15

Field ID: SP-31 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312374	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.9E+03		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	1.6E+03		ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	5.0	I	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	1.5E+03		ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	1.1E+04		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	3.1E+03		ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	140		ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	1.5E+03		ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	2.3E+04		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	5.3E+03		ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.7	I	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	3.4E+03		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	410		ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.54	I	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	1.7		ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.1E+03		ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.8E+04		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	270		ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	6.3	I	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	3.9E+03		ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	67		ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411116	

Field ID: SP-31 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312374	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	2.1E+03		ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P411116	

Ref. Method and Comment:

DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/07/2022 10:37

Field ID: SP-31 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312375	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.2E+03		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	1.2E+03		ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	5.6	I	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	870		ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	9.4E+03		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	2.4E+03		ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	86		ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	1.1E+03		ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	2.1E+04		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	3.7E+03		ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	7.0	I	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	2.0E+03		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	320		ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	5.7E+03		ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.0E+04		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	380		ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	8.1		ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.7E+03		ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	65		ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411116	

Field ID: SP-31 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312375	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	910		ng/L	P411116	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P411116	

Sample Location: Florida State Fire College

Collection Date/Time: 03/07/2022 10:37

Field ID: SP-31 (71-75') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312376	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.4E+03		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	1.2E+03		ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	6.1	I	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	900		ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	9.8E+03		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	2.6E+03		ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	90		ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	1.2E+03		ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	2.5E+04		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	4.0E+03		ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	6.7	I	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	2.2E+03		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	320		ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	6.6E+03		ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.3E+04		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	410		ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	9.5		ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	2.6E+03		ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	78		ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411116	

Field ID: SP-31 (71-75') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312376	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	1.0E+03		ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411116	

Sample Location: Florida State Fire College

Collection Date/Time: 03/07/2022 14:50

Field ID: SP-23 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312377	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.8		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	28		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	3.4	I	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.9	I	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	34		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	5.7		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.8	I	ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	14		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.61	I	ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411116	

Field ID: SP-23 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312377	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411116	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P411116	

Sample Location: Florida State Fire College

Collection Date/Time: 03/07/2022 15:15

Field ID: SP-23 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312378	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.2		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.8	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.8	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.4	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.4	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	20		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	7.1	I	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.4	I	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	5.4	I	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	57		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.4	U	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.4	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.4	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.4	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	3.9		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.95	U	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.48	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.48	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.48	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.7		ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	48		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	2.1		ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.4	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.4	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.4	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.4	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.95	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.95	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.8	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.8	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.8	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.8	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.8	U	ng/L	P411116	

Field ID: SP-23 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312378	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.8	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.5	U	ng/L	P411116	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/07/2022 15:40

Field ID: SP-23 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312379	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	5.4		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.4	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.4	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	13		ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	2.2	U	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	2.2	U	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	30		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.2	U	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	4.1		ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.88	U	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.44	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.44	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.44	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.4	I	ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	19		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	1.7	I	ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.88	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.88	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.4	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.4	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.4	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.4	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.4	U	ng/L	P411116	

Field ID: SP-23 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312379	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.4	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.8	U	ng/L	P411116	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/08/2022 10:00

Field ID: SP-16 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312380	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	4.7	I	ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.2	I	ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	18		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411116	

Field ID: SP-16 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312380	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411116	

Sample Location: Florida State Fire College

Collection Date/Time: 03/08/2022 10:45

Field ID: SP-16 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312381	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.88	I	ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	2.7	I	ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	2.6	I	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	3.9	I	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	24		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	0.77	I	ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.7	I	ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	24		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	2.9		ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P411116	

Field ID: SP-16 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312381	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P411116	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/08/2022 11:23

Field ID: SP-16 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312382	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.2	I	ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	2.2	I	ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	12		ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	11		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411116	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411116	

Field ID: SP-16 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312382	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411116	

Sample Location: Florida State Fire College

Collection Date/Time: 03/08/2022 12:00

Field ID: SP-16 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312383	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.2		ng/L	P411116	
		Perfluorobutanoic acid (PFBA)**	4.3	U	ng/L	P411116	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P411116	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411116	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P411116	
		Perfluorohexanesulfonic acid (PFHxS)**	1.3	I	ng/L	P411116	
		Perfluorohexanoic acid (PFHxA)**	2.2	U	ng/L	P411116	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411116	
		Perfluorooctanoic acid (PFOA)**	2.2	U	ng/L	P411116	
		Perfluorooctanesulfonic acid (PFOS)**	6.5	I	ng/L	P411116	
		Perfluoropentanoic acid (PFPeA)**	2.2	U	ng/L	P411116	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411116	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411116	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411116	
		Perfluoropentanesulfonic acid (PFPeS)**	0.43	U	ng/L	P411116	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.87	U	ng/L	P411116	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P411116	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P411116	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P411116	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.87	U	ng/L	P411116	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	4.9		ng/L	P411116	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.43	U	ng/L	P411116	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411116	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411116	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411116	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.87	U	ng/L	P411116	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.87	U	ng/L	P411116	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P411116	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.3	U	ng/L	P411116	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P411116	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P411116	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P411116	

Field ID: SP-16 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312383	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.3	U	ng/L	P411116	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.7	U	ng/L	P411116	

Ref. Method and Comment:
DEP SOP: LC-001-3: The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume.
Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/08/2022 14:05

Field ID: SP-16 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312384	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	4.8	I	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	4.1		ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.50	I	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-16 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312384	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/08/2022 14:40

Field ID: SP-16 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312385	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.2	I	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	5.2	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	5.2	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.6	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.6	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	1.3	I	ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.6	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.6	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.6	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	3.7	I	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.6	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.6	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.6	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.6	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	0.52	U	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.0	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.52	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.52	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.52	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.0	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	9.4		ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.52	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.6	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.6	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.6	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	21	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.6	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.0	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.0	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.2	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	5.2	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.2	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.2	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.2	U	ng/L	P411119	

Field ID: SP-16 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312385	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.2	U	ng/L	P411119	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	10	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 08:35

Field ID: EQB-84

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312386	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: EQB-84

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312386	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 08:50

Field ID: SP-21 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312387	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	1.5	I	ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-21 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312387	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 09:10

Field ID: SP-21 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312388	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	4.3		ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	3.4		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	3.3	I	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	2.6		ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	1.6	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.82	I	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-21 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312388	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Ref. Method and Comment:
DEP SOP: LC-001-3: MDL for FBSA elevated due to matrix interference.

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 09:30

Field ID: SP-21 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312389	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.2		ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.5	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	4.5		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.2	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.2	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	3.5	I	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.2	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	2.2		ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.89	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.89	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	2.3	I	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.45	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.89	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.89	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.5	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P411119	

Field ID: SP-21 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312389	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.5	U	ng/L	P411119	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.9	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 09:58

Field ID: SP-21 (78-82')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312390	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.6	I	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	1.2	I	ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	2.6	I	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	1.5	I	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.7	I	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-21 (78-82')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312390	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 09:58

Field ID: SP-21 (78-82') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312391	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.5	I	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	1.3	I	ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	2.4	I	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	1.3	I	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.1	I	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-21 (78-82') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312391	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 15:10

Field ID: SP-18 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312392	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.7		ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	32		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	24		ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	5.1		ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.5		ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-18 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312392	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 15:44

Field ID: SP-18 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312393	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	14		ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	5.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	5.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.5	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.5	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	120		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	6.0	I	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.5	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	4.0	I	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	120		ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.5	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.5	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.5	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.5	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	19		ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.3	I	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.50	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.50	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.50	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	9.3		ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	5.7		ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.50	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.5	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.5	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.5	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	20	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.5	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.0	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.0	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	5.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.0	U	ng/L	P411119	

Field ID: SP-18 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312393	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.0	U	ng/L	P411119	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	10	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 16:23

Field ID: SP-18 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312394	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	7.4		ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.8	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.8	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.4	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.4	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	78		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.4	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.4	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.4	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	69		ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.4	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.4	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.4	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.4	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	10		ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.96	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.48	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.48	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.48	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	4.5		ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.0	I	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.48	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.4	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.4	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.4	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.4	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.96	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.96	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.8	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.8	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.8	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.8	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.8	U	ng/L	P411119	

Field ID: SP-18 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312394	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.8	U	ng/L	P411119	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	9.6	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 16:50

Field ID: SP-18 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312395	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.2		ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	22		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	16		ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	3.3		ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.82	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.89	I	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	1.3	I	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411119	

Field ID: SP-18 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312395	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P411119	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/10/2022 07:50

Field ID: SP-18 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312396	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.58	I	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	6.1		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	5.5	I	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	0.82	I	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.0	I	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-18 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312396	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxiheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/10/2022 10:50

Field ID: EQB-85

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312397	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: EQB-85

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312397	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Sample Location: Florida State Fire College

Collection Date/Time: 03/09/2022 15:10

Field ID: SP-18 (61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312398	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.8		ng/L	P411119	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411119	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411119	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411119	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411119	
		Perfluorohexanesulfonic acid (PFHxS)**	38		ng/L	P411119	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411119	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411119	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411119	
		Perfluorooctanesulfonic acid (PFOS)**	29		ng/L	P411119	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411119	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411119	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411119	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411119	
		Perfluoropentanesulfonic acid (PFPeS)**	5.7		ng/L	P411119	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411119	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411119	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411119	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411119	
		Perfluoro-1-butane sulfonamide (FBSA)**	5.2		ng/L	P411119	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411119	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411119	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411119	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411119	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411119	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411119	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411119	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411119	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411119	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411119	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411119	

Field ID: SP-18 (61-65') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2312398	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411119	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411119	

Quality Assurance Report Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P411119

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P411119

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.1		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.2		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.9		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	113		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	106		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	103		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.7		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	85.5		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	140		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	133		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	117		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	101		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	114		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.6		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	112		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	129		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	110		P	30 - 160
Perfluorobutanoic acid (PFBA)	98.2		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	100		P	30 - 160
Perfluorodecanoic acid (PFDA)	101		P	30 - 160
Perfluorododecanoic acid (PFDoA)	88.1		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	83.6		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	104		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	88.8		P	30 - 160
Perfluorohexanoic acid (PFHxA)	107		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	104		P	30 - 160
Perfluorononanoic acid (PFNA)	86.8		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	98.9		P	30 - 160
Perfluorooctanoic acid (PFOA)	127		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	120		P	30 - 160
Perfluoropentanoic acid (PFPeA)	105		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	93.2		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	109		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	157		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	103		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	70.7		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.2		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	84.2		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.8		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	105		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.9		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	106		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	89.3		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	130		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	118		P	30 - 160

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3
Batch ID: P411119

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	151		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	95.4		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	115		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.6		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	107		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	121		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	99.5		P	30 - 160
Perfluorobutanoic acid (PFBA)	93.4		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	82.7		P	30 - 160
Perfluorodecanoic acid (PFDA)	58.6		P	30 - 160
Perfluorododecanoic acid (PFDoA)	57.9		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.7		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	114		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	93.8		P	30 - 160
Perfluorohexanoic acid (PFHxA)	93.6		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	87.2		P	30 - 160
Perfluorononanoic acid (PFNA)	62.6		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	93.5		P	30 - 160
Perfluorooctanoic acid (PFOA)	81.4		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	111		P	30 - 160
Perfluoropentanoic acid (PFPeA)	94.8		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	76.7		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	79.4		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	118		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	74.3		P	30 - 160

Quality Assurance Report

Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312311	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	64.8	61.0	P/P	30 - 160
2312311	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	108	125	P/P	30 - 160
2312311	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.3	90.4	P/P	30 - 160
2312311	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	118	P/P	30 - 160
2312311	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	151	155	P/P	30 - 160
2312311	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	91.3	113	P/P	30 - 160
2312311	Hexafluoropropylene oxide dimer acid (HFPO-DA)	95.8	90.2	P/P	30 - 160
2312311	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	112	105	P/P	30 - 160
2312311	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	80.5	80.9	P/P	30 - 160
2312311	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	114	125	P/P	30 - 160
2312311	Perfluoro-1-butane sulfonamide (FBSA)	129	129	P/P	30 - 160
2312311	Perfluoro-1-hexane sulfonamide (FHxSA)	120	119	P/P	30 - 160
2312311	Perfluoro-1-octane sulfonamide (FOSA)	105	109	P/P	30 - 160
2312311	Perfluoro-3-methoxypropanoic acid (PFMPA)	121	125	P/P	30 - 160
2312311	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.8	88.0	P/P	30 - 160
2312311	Perfluoro-4-methoxybutanoic acid (PFMBA)	137	128	P/P	30 - 160
2312311	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	116	120	P/P	30 - 160
2312311	Perfluorobutanesulfonic acid (PFBS)	94.8	112	P/P	30 - 160
2312311	Perfluorobutanoic acid (PFBA)	139	131	P/P	30 - 160
2312311	Perfluorodecanesulfonic acid (PFDS)	67.5	62.9	P/P	30 - 160
2312311	Perfluorodecanoic acid (PFDA)	89.5	112	P/P	30 - 160
2312311	Perfluorododecanoic acid (PFDoA)	91.5	101	P/P	30 - 160
2312311	Perfluoroheptanesulfonic acid (PFHpS)	75.3	79.9	P/P	30 - 160
2312311	Perfluoroheptanoic acid (PFHpA)	116	122	P/P	30 - 160
2312311	Perfluorohexanesulfonic acid (PFHxS)	95.8	95.1	P/P	30 - 160
2312311	Perfluorohexanoic acid (PFHxA)	117	90.3	P/P	30 - 160
2312311	Perfluorononanesulfonic acid (PFNS)	82.3	78.7	P/P	30 - 160
2312311	Perfluorononanoic acid (PFNA)	96.0	91.5	P/P	30 - 160
2312311	Perfluorooctanesulfonic acid (PFOS)	104	104	P/P	30 - 160
2312311	Perfluorooctanoic acid (PFOA)	112	128	P/P	30 - 160
2312311	Perfluoropentanesulfonic acid (PFPeS)	118	118	P/P	30 - 160
2312311	Perfluoropentanoic acid (PFPeA)	114	128	P/P	30 - 160
2312311	Perfluoropropanesulfonic acid (PFPrS)	115	96.1	P/P	30 - 160
2312311	Perfluorotetradecanoic acid (PFTeA)	98.2	93.0	P/P	30 - 160
2312311	Perfluorotridecanoic acid (PFTriA)	118	114	P/P	30 - 160
2312311	Perfluoroundecanoic acid (PFUnA)	99.4	82.0	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411119

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312388	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	73.8	63.1	P/P	30 - 160
2312388	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.2	95.6	P/P	30 - 160
2312388	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.6	88.8	P/P	30 - 160
2312388	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	118	101	P/P	30 - 160
2312388	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	158	128	P/P	30 - 160
2312388	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	94.1	P/P	30 - 160
2312388	Hexafluoropropylene oxide dimer acid (HFPO-DA)	102	86.6	P/P	30 - 160
2312388	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	99.2	113	P/P	30 - 160
2312388	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	94.0	88.0	P/P	30 - 160
2312388	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	116	P/P	30 - 160
2312388	Perfluoro-1-butane sulfonamide (FBSA)	138	122	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411119

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2312388	Perfluoro-1-hexane sulfonamide (FHxSA)	135	135	P/P	30 - 160
2312388	Perfluoro-1-octane sulfonamide (FOSA)	108	106	P/P	30 - 160
2312388	Perfluoro-3-methoxypropanoic acid (PFMPA)	120	110	P/P	30 - 160
2312388	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.1	73.9	P/P	30 - 160
2312388	Perfluoro-4-methoxybutanoic acid (PFMBA)	116	120	P/P	30 - 160
2312388	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	126	112	P/P	30 - 160
2312388	Perfluorobutanesulfonic acid (PFBS)	102	89.8	P/P	30 - 160
2312388	Perfluorobutanoic acid (PFBA)	102	93.2	P/P	30 - 160
2312388	Perfluorodecanesulfonic acid (PFDS)	86.7	70.7	P/P	30 - 160
2312388	Perfluorodecanoic acid (PFDA)	67.6	77.9	P/P	30 - 160
2312388	Perfluorododecanoic acid (PFDoA)	83.3	93.2	P/P	30 - 160
2312388	Perfluoroheptanesulfonic acid (PFHpS)	78.3	70.2	P/P	30 - 160
2312388	Perfluoroheptanoic acid (PFHpA)	118	116	P/P	30 - 160
2312388	Perfluorohexanesulfonic acid (PFHxS)	93.3	77.3	P/P	30 - 160
2312388	Perfluorohexanoic acid (PFHxA)	94.5	118	P/P	30 - 160
2312388	Perfluorononanesulfonic acid (PFNS)	94.7	85.5	P/P	30 - 160
2312388	Perfluorononanoic acid (PFNA)	82.2	83.6	P/P	30 - 160
2312388	Perfluorooctanesulfonic acid (PFOS)	99.7	92.9	P/P	30 - 160
2312388	Perfluorooctanoic acid (PFOA)	109	101	P/P	30 - 160
2312388	Perfluoropentanesulfonic acid (PFPeS)	112	113	P/P	30 - 160
2312388	Perfluoropentanoic acid (PFPeA)	121	107	P/P	30 - 160
2312388	Perfluoropropanesulfonic acid (PFPrS)	92.1	95.6	P/P	30 - 160
2312388	Perfluorotetradecanoic acid (PFTeA)	73.3	84.4	P/P	30 - 160
2312388	Perfluorotridecanoic acid (PFTriA)	124	120	P/P	30 - 160
2312388	Perfluoroundecanoic acid (PFUnA)	98.2	100	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411116

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312311	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	6.04	Spike	P	0 - 30
2312311	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	14.5	Spike	P	0 - 30
2312311	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.32	Spike	P	0 - 30
2312311	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.09	Spike	P	0 - 30
2312311	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.29	Spike	P	0 - 30
2312311	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	21.2	Spike	P	0 - 30
2312311	Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.02	Spike	P	0 - 30
2312311	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	6.56	Spike	P	0 - 30
2312311	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.496	Spike	P	0 - 30
2312311	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9.71	Spike	P	0 - 30
2312311	Perfluoro-1-butane sulfonamide (FBSA)	0.138	Spike	P	0 - 30
2312311	Perfluoro-1-hexane sulfonamide (FHxSA)	0.670	Spike	P	0 - 30
2312311	Perfluoro-1-octane sulfonamide (FOSA)	4.02	Spike	P	0 - 30
2312311	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.09	Spike	P	0 - 30
2312311	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	8.53	Spike	P	0 - 30
2312311	Perfluoro-4-methoxybutanoic acid (PFMBA)	6.73	Spike	P	0 - 30
2312311	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.74	Spike	P	0 - 30
2312311	Perfluorobutanesulfonic acid (PFBS)	11.0	Spike	P	0 - 30
2312311	Perfluorobutanoic acid (PFBA)	5.92	Spike	P	0 - 30
2312311	Perfluorodecanesulfonic acid (PFDS)	7.06	Spike	P	0 - 30
2312311	Perfluorodecanoic acid (PFDA)	22.3	Spike	P	0 - 30
2312311	Perfluorododecanoic acid (PFDoA)	9.57	Spike	P	0 - 30
2312311	Perfluoroheptanesulfonic acid (PFHpS)	5.93	Spike	P	0 - 30
2312311	Perfluoroheptanoic acid (PFHpA)	5.04	Spike	P	0 - 30
2312311	Perfluorohexanesulfonic acid (PFHxS)	0.528	Spike	P	0 - 30
2312311	Perfluorohexanoic acid (PFHxA)	21.6	Spike	P	0 - 30
2312311	Perfluorononanesulfonic acid (PFNS)	4.47	Spike	P	0 - 30
2312311	Perfluorononanoic acid (PFNA)	4.80	Spike	P	0 - 30
2312311	Perfluorooctanesulfonic acid (PFOS)	0.135	Spike	P	0 - 30
2312311	Perfluorooctanoic acid (PFOA)	11.1	Spike	P	0 - 30
2312311	Perfluoropentanesulfonic acid (PFPeS)	0.388	Spike	P	0 - 30
2312311	Perfluoropentanoic acid (PFPeA)	11.1	Spike	P	0 - 30
2312311	Perfluoropropanesulfonic acid (PFPrS)	17.7	Spike	P	0 - 30
2312311	Perfluorotetradecanoic acid (PFTeA)	5.44	Spike	P	0 - 30
2312311	Perfluorotridecanoic acid (PFTriA)	3.71	Spike	P	0 - 30
2312311	Perfluoroundecanoic acid (PFUnA)	19.2	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P411119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312388	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	15.6	Spike	P	0 - 30
2312388	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.54	Spike	P	0 - 30
2312388	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	9.44	Spike	P	0 - 30
2312388	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	15.3	Spike	P	0 - 30
2312388	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	21.0	Spike	P	0 - 30
2312388	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	10.6	Spike	P	0 - 30
2312388	Hexafluoropropylene oxide dimer acid (HFPO-DA)	16.6	Spike	P	0 - 30
2312388	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	13.1	Spike	P	0 - 30
2312388	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	6.59	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411119

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2312388	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	2.39	Spike	P	0 - 30
2312388	Perfluoro-1-butane sulfonamide (FBSA)	12.4	Spike	P	0 - 30
2312388	Perfluoro-1-hexane sulfonamide (FHxSA)	0.0	Spike	P	0 - 30
2312388	Perfluoro-1-octane sulfonamide (FOSA)	1.49	Spike	P	0 - 30
2312388	Perfluoro-3-methoxypropanoic acid (PFMPA)	8.28	Spike	P	0 - 30
2312388	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	12.9	Spike	P	0 - 30
2312388	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.98	Spike	P	0 - 30
2312388	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	11.1	Spike	P	0 - 30
2312388	Perfluorobutanesulfonic acid (PFBS)	10.3	Spike	P	0 - 30
2312388	Perfluorobutanoic acid (PFBA)	8.72	Spike	P	0 - 30
2312388	Perfluorodecanesulfonic acid (PFDS)	20.3	Spike	P	0 - 30
2312388	Perfluorodecanoic acid (PFDA)	14.2	Spike	P	0 - 30
2312388	Perfluorododecanoic acid (PFDoA)	11.2	Spike	P	0 - 30
2312388	Perfluoroheptanesulfonic acid (PFHpS)	10.9	Spike	P	0 - 30
2312388	Perfluoroheptanoic acid (PFHpA)	1.97	Spike	P	0 - 30
2312388	Perfluorohexanesulfonic acid (PFHxS)	15.0	Spike	P	0 - 30
2312388	Perfluorohexanoic acid (PFHxA)	22.0	Spike	P	0 - 30
2312388	Perfluorononanesulfonic acid (PFNS)	10.2	Spike	P	0 - 30
2312388	Perfluorononanoic acid (PFNA)	1.69	Spike	P	0 - 30
2312388	Perfluorooctanesulfonic acid (PFOS)	5.82	Spike	P	0 - 30
2312388	Perfluorooctanoic acid (PFOA)	7.13	Spike	P	0 - 30
2312388	Perfluoropentanesulfonic acid (PFPeS)	0.858	Spike	P	0 - 30
2312388	Perfluoropentanoic acid (PFPeA)	12.3	Spike	P	0 - 30
2312388	Perfluoropropanesulfonic acid (PFPrS)	3.73	Spike	P	0 - 30
2312388	Perfluorotetradecanoic acid (PFTeA)	14.1	Spike	P	0 - 30
2312388	Perfluorotridecanoic acid (PFTriA)	3.28	Spike	P	0 - 30
2312388	Perfluoroundecanoic acid (PFUnA)	2.02	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2312373

Field Sample ID: SP-31 (51-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	99.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	40.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	43.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	115	P	30 - 160

Lab Sample ID: 2312374

Field Sample ID: SP-31 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	97.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	41.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	95.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	43.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	110	P	30 - 160

Lab Sample ID: 2312375

Field Sample ID: SP-31 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	98.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	54.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	143	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	54.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	118	P	30 - 160

Lab Sample ID: 2312376

Field Sample ID: SP-31 (71-75') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	52.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	48.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	94.7	P	30 - 160

Lab Sample ID: 2312377

Field Sample ID: SP-23 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	61.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.4	P	30 - 160

Lab Sample ID: 2312378

Field Sample ID: SP-23 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	79.9	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2312378

Field Sample ID: SP-23 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	101	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	103	P	30 - 160

Lab Sample ID: 2312379

Field Sample ID: SP-23 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	56.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	99.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	103	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	78.0	P	30 - 160

Lab Sample ID: 2312380

Field Sample ID: SP-16 (51-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	92.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.3	P	30 - 160

Lab Sample ID: 2312381

Field Sample ID: SP-16 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	83.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2312382

Field Sample ID: SP-16 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	52.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	99.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	82.0	P	30 - 160

Lab Sample ID: 2312383

Field Sample ID: SP-16 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.8	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2312383
Field Sample ID: SP-16 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.1	P	30 - 160

Lab Sample ID: 2312384
Field Sample ID: SP-16 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	49.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	91.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.3	P	30 - 160

Lab Sample ID: 2312385
Field Sample ID: SP-16 (101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	72.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	98.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.3	P	30 - 160

Lab Sample ID: 2312386
Field Sample ID: EQB-84

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	129	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.1	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.8	P	30 - 160

Lab Sample ID: 2312387
Field Sample ID: SP-21 (51-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	57.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	90.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	153	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	91.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	92.9	P	30 - 160

Lab Sample ID: 2312388
Field Sample ID: SP-21 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	57.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	80.6	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2312389

Field Sample ID: SP-21 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	89.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.4	P	30 - 160

Lab Sample ID: 2312390

Field Sample ID: SP-21 (78-82')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.0	P	30 - 160

Lab Sample ID: 2312391

Field Sample ID: SP-21 (78-82') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	64.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	87.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.3	P	30 - 160

Lab Sample ID: 2312392

Field Sample ID: SP-18 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	94.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	140	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.0	P	30 - 160

Lab Sample ID: 2312393

Field Sample ID: SP-18 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	136	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	73.3	P	30 - 160

Lab Sample ID: 2312394

Field Sample ID: SP-18 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	63.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	87.3	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2312394

Field Sample ID: SP-18 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	93.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	76.9	P	30 - 160

Lab Sample ID: 2312395

Field Sample ID: SP-18 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	56.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	93.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	136	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	99.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.6	P	30 - 160

Lab Sample ID: 2312396

Field Sample ID: SP-18 (101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	56.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	82.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	128	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	94.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	93.1	P	30 - 160

Lab Sample ID: 2312397

Field Sample ID: EQB-85

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.7	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	85.5	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	96.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	83.9	P	30 - 160

Lab Sample ID: 2312398

Field Sample ID: SP-18 (61-65') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	71.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	80.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	96.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	90.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	99.9	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111037

Included Lab Sample IDs: 2312384, 2312385, 2312386, 2312387, 2312388, 2312389, 2312390, 2312391, 2312392, 2312393, 2312394, 2312395, 2312396, 2312397, 2312398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	103	97.1	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	106	103	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	94.7	106	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	137	94.6	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	94.6	93.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.5	137	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100	97.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.2	100	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.7	108	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	102	110	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	110	117	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	117	70.4	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	144	157	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	151	144	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	157	135	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	102	108	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	102	102	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	108	102	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.5	88.2	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.2	101	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	96.0	79.5	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	112	95.6	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	84.9	112	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.3	84.9	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.0	88.1	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	88.1	89.7	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	91.3	86.0	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	118	93.9	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	70.1	118	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	93.4	70.1	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	132	142	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	141	151	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	142	141	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	126	140	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	133	132	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	140	133	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	100	92.7	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	92.7	104	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.4	100	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	113	115	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	117	123	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	123	113	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	80.2	89.0	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	81.9	80.2	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	89.0	80.2	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	118	125	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	121	109	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	125	121	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	119	122	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	122	125	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111037

Included Lab Sample IDs: 2312384, 2312385, 2312386, 2312387, 2312388, 2312389, 2312390, 2312391, 2312392, 2312393, 2312394, 2312395, 2312396, 2312397, 2312398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	122	122	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	93.1	98.2	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	98.2	99.6	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	99.6	100	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	101	97.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	87.0	101	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	97.3	92.3	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	102	105	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	105	106	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	106	94.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	79.3	92.5	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	81.1	103	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	92.5	81.1	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	79.2	82.9	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	82.9	86.8	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	86.8	90.8	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	74.4	75.2	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.2	73.7	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	77.8	74.4	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	101	99.8	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	89.5	101	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	99.2	89.5	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	90.9	96.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	92.1	90.9	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	96.9	87.1	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	104	79.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	88.9	97.0	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	97.0	104	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	103	98.9	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	98.9	99.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	99.5	93.5	P/P	60 - 160
Perfluorononanoic acid (PFNA)	83.2	85.7	P/P	60 - 160
Perfluorononanoic acid (PFNA)	85.7	96.1	P/P	60 - 160
Perfluorononanoic acid (PFNA)	96.1	83.0	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	91.3	93.3	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	93.3	91.8	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	99.8	91.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	106	67.7	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	67.7	68.6	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	68.6	130	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	116	123	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	117	121	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	123	117	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	102	110	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	110	111	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	111	106	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	102	91.7	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	105	83.5	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	91.7	105	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	105	97.5	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111037

Included Lab Sample IDs: 2312384, 2312385, 2312386, 2312387, 2312388, 2312389, 2312390, 2312391, 2312392, 2312393, 2312394, 2312395, 2312396, 2312397, 2312398

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorotetradecanoic acid (PFTeA)	81.8	105	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	97.5	90.4	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	113	145	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	124	118	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	145	124	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	104	112	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	112	92.9	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	92.9	106	P/P	60 - 160

Reference Method: DEP SOP: LC-001-3

Run ID: A111038

Included Lab Sample IDs: 2312373, 2312374, 2312375, 2312376, 2312377, 2312378, 2312379, 2312380, 2312381, 2312382, 2312383

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	108	96.2	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.1	108	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	96.2	102	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	116	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	116	90.9	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	99.7	110	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	100	90.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	110	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	110	100	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	114	98.1	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	97.5	114	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	121	130	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	125	125	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	130	125	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	101	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	106	109	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	109	105	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	77.5	90.0	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	81.4	77.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	90.0	81.4	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	102	104	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	104	97.2	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	81.6	102	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	78.5	86.8	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	86.8	89.2	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	89.9	78.5	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	120	125	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	121	106	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125	121	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	137	142	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	142	152	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	122	130	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	130	142	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	142	142	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	102	105	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	105	102	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111038

Included Lab Sample IDs: 2312373, 2312374, 2312375, 2312376, 2312377, 2312378, 2312379, 2312380, 2312381, 2312382, 2312383

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoro-1-octane sulfonamide (FOSA)	108	105	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	122	120	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	123	122	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	124	123	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	76.1	78.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	78.3	81.5	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	86.1	76.1	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	119	121	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	121	119	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	121	124	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	107	130	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	123	107	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	130	131	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	103	107	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	107	104	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	111	107	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	96.4	111	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	101	99.7	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	102	110	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	110	101	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	67.8	88.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	86.5	67.8	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	88.3	86.7	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	81.3	80.5	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	87.6	81.3	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	91.2	87.6	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.3	77.9	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	77.9	72.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	94.0	76.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	97.1	94.0	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	89.6	90.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	90.8	89.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	91.8	89.6	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	94.9	99.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	99.2	99.0	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	104	93.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	93.4	89.8	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	95.5	104	P/P	60 - 160
Perfluorononanoic acid (PFNA)	71.4	78.3	P/P	60 - 160
Perfluorononanoic acid (PFNA)	76.7	78.0	P/P	60 - 160
Perfluorononanoic acid (PFNA)	78.3	78.7	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	105	93.0	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	93.0	98.0	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	98.0	91.5	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	102	122	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	111	102	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	122	120	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	127	122	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	109	114	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	118	109	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	69.5	92.4	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111038

Included Lab Sample IDs: 2312373, 2312374, 2312375, 2312376, 2312377, 2312378, 2312379, 2312380, 2312381, 2312382, 2312383

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluoropropanesulfonic acid (PFPrS)	92.4	89.1	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	90.7	94.5	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	94.5	95.2	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	95.2	105	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	109	134	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	110	109	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	134	120	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	86.3	96.5	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	89.1	86.3	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	96.5	85.9	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	91.1	64.8	61.0			6.04
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	70.7	73.8	63.1			15.6
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	110	108	125			14.5
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	98.2	93.2	95.6			2.54
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	96.2	96.3	90.4			6.32
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	84.2	97.6	88.8			9.44
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	89.9	108	118			9.09
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	92.8	118	101			15.3
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	113	151	155			2.29
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	105	158	128			21.0
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	106	91.3	113			21.2
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	105	105	94.1			10.6
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	103	95.8	90.2			6.02
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.9	102	86.6			16.6
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.7	112	105			6.56
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	106	99.2	113			13.1
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	85.5	80.5	80.9			0.496
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	89.3	94.0	88.0			6.59
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	140	114	125			9.71
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	130	118	116			2.39
	Perfluoro-1-butane sulfonamide (FBSA)	133	129	129			0.138
	Perfluoro-1-butane sulfonamide (FBSA)	118	138	122			12.4
	Perfluoro-1-hexane sulfonamide (FHxSA)	117	120	119			0.670
	Perfluoro-1-hexane sulfonamide (FHxSA)	151	135	135			0.0
	Perfluoro-1-octane sulfonamide (FOSA)	101	105	109			4.02
	Perfluoro-1-octane sulfonamide (FOSA)	95.4	108	106			1.49
	Perfluoro-3-methoxypropanoic acid (PFMPA)	114	121	125			3.09
	Perfluoro-3-methoxypropanoic acid (PFMPA)	115	120	110			8.28

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	90.6	80.8	88.0			8.53
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	82.6	84.1	73.9			12.9
	Perfluoro-4-methoxybutanoic acid (PFMBA)	112	137	128			6.73
	Perfluoro-4-methoxybutanoic acid (PFMBA)	107	116	120			3.98
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	129	116	120			3.74
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	121	126	112			11.1
	Perfluorobutanesulfonic acid (PFBS)	110	94.8	112			11.0
	Perfluorobutanesulfonic acid (PFBS)	99.5	102	89.8			10.3
	Perfluorobutanoic acid (PFBA)	98.2	139	131			5.92
	Perfluorobutanoic acid (PFBA)	93.4	102	93.2			8.72
	Perfluorodecanesulfonic acid (PFDS)	100	67.5	62.9			7.06
	Perfluorodecanesulfonic acid (PFDS)	82.7	86.7	70.7			20.3
	Perfluorodecanoic acid (PFDA)	101	89.5	112			22.3
	Perfluorodecanoic acid (PFDA)	58.6	67.6	77.9			14.2
	Perfluorododecanoic acid (PFDoA)	88.1	91.5	101			9.57
	Perfluorododecanoic acid (PFDoA)	57.9	83.3	93.2			11.2
	Perfluoroheptanesulfonic acid (PFHpS)	83.6	75.3	79.9			5.93
	Perfluoroheptanesulfonic acid (PFHpS)	76.7	78.3	70.2			10.9
	Perfluoroheptanoic acid (PFHpA)	104	116	122			5.04
	Perfluoroheptanoic acid (PFHpA)	114	118	116			1.97
	Perfluorohexanesulfonic acid (PFHxS)	88.8	95.8	95.1			0.528
	Perfluorohexanesulfonic acid (PFHxS)	93.8	93.3	77.3			15.0
	Perfluorohexanoic acid (PFHxA)	107	117	90.3			21.6
	Perfluorohexanoic acid (PFHxA)	93.6	94.5	118			22.0
	Perfluorononanesulfonic acid (PFNS)	104	82.3	78.7			4.47
	Perfluorononanesulfonic acid (PFNS)	87.2	94.7	85.5			10.2
	Perfluorononanoic acid (PFNA)	86.8	96.0	91.5			4.80
	Perfluorononanoic acid (PFNA)	62.6	82.2	83.6			1.69
	Perfluorooctanesulfonic acid (PFOS)	98.9	104	104			0.135
	Perfluorooctanesulfonic acid (PFOS)	93.5	99.7	92.9			5.82
	Perfluorooctanoic acid (PFOA)	127	112	128			11.1
	Perfluorooctanoic acid (PFOA)	81.4	109	101			7.13
	Perfluoropentanesulfonic acid (PFPeS)	120	118	118			0.388
	Perfluoropentanesulfonic acid (PFPeS)	111	112	113			0.858
	Perfluoropentanoic acid (PFPeA)	105	114	128			11.1
	Perfluoropentanoic acid (PFPeA)	94.8	121	107			12.3
	Perfluoropropanesulfonic acid (PFPrS)	93.2	115	96.1			17.7

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS			
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	76.7	92.1	95.6		3.73
	Perfluorotetradecanoic acid (PFTeA)	109	98.2	93.0		5.44
	Perfluorotetradecanoic acid (PFTeA)	79.4	73.3	84.4		14.1
	Perfluorotridecanoic acid (PFTriA)	157	118	114		3.71
	Perfluorotridecanoic acid (PFTriA)	118	124	120		3.28
	Perfluoroundecanoic acid (PFUnA)	103	99.4	82.0		19.2
	Perfluoroundecanoic acid (PFUnA)	74.3	98.2	100		2.02

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2312373, 2312374, 2312375, 2312376, 2312377, 2312378, 2312379, 2312380, 2312381, 2312382, 2312383, 2312384, 2312385, 2312386, 2312387, 2312388, 2312389, 2312390, 2312391, 2312392, 2312393, 2312394, 2312395, 2312396, 2312397, 2312398

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 15:29	Mohammad Ghaffari	2312375
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 15:39	Mohammad Ghaffari	2312376
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 17:16	Mohammad Ghaffari	2312373
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 17:38	Mohammad Ghaffari	2312374
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 17:49	Mohammad Ghaffari	2312377
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 18:00	Mohammad Ghaffari	2312378
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 18:10	Mohammad Ghaffari	2312379
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 18:21	Mohammad Ghaffari	2312380
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 18:32	Mohammad Ghaffari	2312381
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 18:43	Mohammad Ghaffari	2312382
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/17/2022 18:54	Mohammad Ghaffari	2312383
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 08:03	Mohammad Ghaffari	2312373
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 08:14	Mohammad Ghaffari	2312373
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 08:25	Mohammad Ghaffari	2312374
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 08:36	Mohammad Ghaffari	2312374
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 08:46	Mohammad Ghaffari	2312375
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 08:57	Mohammad Ghaffari	2312375
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 09:08	Mohammad Ghaffari	2312376
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 09:19	Mohammad Ghaffari	2312376
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 10:56	Mohammad Ghaffari	2312373
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 11:07	Mohammad Ghaffari	2312375
	03/15/2022	03/16/2022 09:00	Hoor Shaik	03/18/2022 11:18	Mohammad Ghaffari	2312376
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 13:49	Mohammad Ghaffari	2312386
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 13:59	Mohammad Ghaffari	2312397
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 14:43	Mohammad Ghaffari	2312388
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 14:53	Mohammad Ghaffari	2312390
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 15:04	Mohammad Ghaffari	2312391
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 15:26	Mohammad Ghaffari	2312392
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 15:37	Mohammad Ghaffari	2312398
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 16:09	Mohammad Ghaffari	2312384
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 16:20	Mohammad Ghaffari	2312385
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 16:31	Mohammad Ghaffari	2312387
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 16:41	Mohammad Ghaffari	2312389
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 16:52	Mohammad Ghaffari	2312393
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 17:14	Mohammad Ghaffari	2312394
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 17:25	Mohammad Ghaffari	2312395
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 17:35	Mohammad Ghaffari	2312396
	03/15/2022	03/17/2022 09:00	Hoor Shaik	03/18/2022 18:51	Mohammad Ghaffari	2312388

Chemical Analysis Report

SIS-2022-03-22-01

Florida Department of Environmental Protection
Central Laboratory
2600 Blair Stone Road
Tallahassee, FL 32399-2400
DOH Accreditation E31780

Event Description: **FSFC GW Sampling February 28, 2022**

Request ID: **RQ-2022-02-28-25**

Customer: **SIS**

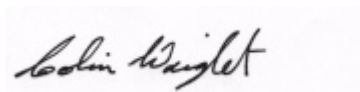
Project ID: **FC-MARION**

Send Reports to:
FL Dept. of Environmental Protection
2600 Blair Stone Road
Twin Towers Bldg. MS# 4515
Tallahassee, FL 32399
Attn: David Meyers

For additional information please contact
Colin Wright, Ph.D.
Liang-Tsair Lin, Ph.D.
Kerry Tate, Ph.D.
Dr. rer. nat. Bettina Steinbock
Thekkekalathil Chandrasekhar, Ph.D, QA Officer
Phone (850) 245-8085

Certified by: Colin Wright, Program Administrator

Date Certified: 05-APR-2022 09:42

A handwritten signature in black ink, appearing to read "Colin Wright", is displayed on a light gray rectangular background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical group are included in this report: Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Florida State Fire College

Collection Date/Time: 03/14/2022 10:35

Field ID: SP-15 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313506	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.86	I	ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	2.1	I	ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	6.2	I	ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411266	

Field ID: SP-15 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313506	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411266	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/14/2022 10:55

Field ID: SP-15 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313507	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.0		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	4.1	U	ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	2.1	I	ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	8.7		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	3.1	I	ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	0.41	U	ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.82	U	ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.82	U	ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.82	U	ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.41	U	ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.82	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.82	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411266	

Field ID: SP-15 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313507	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.1	U	ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.2	U	ng/L	P411266	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/14/2022 11:20

Field ID: SP-15 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313508	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.3	I	ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	4.2	U	ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	2.1	U	ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	2.1	I	ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	2.1	U	ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.1	U	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	2.1	U	ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	18		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	2.1	U	ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	0.42	U	ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.83	U	ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.83	U	ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.83	U	ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.90	I	ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.2	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P411266	

Field ID: SP-15 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313508	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.2	U	ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P411266	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/14/2022 14:00

Field ID: SP-15 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313509	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.6	I	ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	5.6	U	ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	5.6	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.8	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	2.8	U	ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	4.3	I	ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	2.8	U	ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.8	U	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	5.7	I	ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	25		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	4.0	I	ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.8	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.8	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.8	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	0.56	U	ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	U	ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.56	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.56	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.56	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.3	I	ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	12		ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	2.1	I	ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.8	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.8	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.8	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	22	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.8	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	1.1	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	1.1	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	5.6	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	5.6	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	5.6	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	5.6	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	5.6	U	ng/L	P411266	

Field ID: SP-15 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313509	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.6	U	ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	11	U	ng/L	P411266	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/14/2022 14:30

Field ID: SP-15 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313510	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.9		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	4.3	U	ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	2.2	U	ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	6.4		ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	2.2	U	ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.2	U	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	5.5	I	ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	23		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	2.2	U	ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	0.43	U	ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.87	U	ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.87	U	ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.87	U	ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.43	U	ng/L	P411266	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.87	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.87	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.3	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P411266	

Field ID: SP-15 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313510	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.3	U	ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.7	U	ng/L	P411266	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 08:25

Field ID: FRB-36

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313511	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411266	

Field ID: FRB-36

Matrix: W-FRB

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313511	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411266	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 09:45

Field ID: SP-19 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313512	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	57		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	23		ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	22		ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	590		ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	64		ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	3.0	I	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	36		ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	700		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	46		ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	65		ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	11		ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	200		ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	40		ng/L	P411266	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411266	

Field ID: SP-19 (41-45')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313512	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	18		ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411266	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 10:05

Field ID: SP-19 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313513	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	110		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	41		ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	28		ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	980		ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	89		ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	6.1	I	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	69		ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	1.2E+03		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	78		ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	140		ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	15		ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	290		ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	450		ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	52		ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	20	I	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.1	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411266	

Field ID: SP-19 (51-55')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313513	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	37		ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P411266	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 10:05

Field ID: SP-19 (51-55') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313514	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	110		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	40		ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	31		ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	980		ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	100		ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	5.5	I	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	63		ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	1.3E+03		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	70		ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	150		ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	15		ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	280		ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	510		ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	53		ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	19	I	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.81	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.81	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411266	

Field ID: SP-19 (51-55') DUP

Matrix: W-FLD-REP

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313514	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	42		ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.1	U	ng/L	P411266	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 10:30

Field ID: SP-19 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313515	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	57		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	23		ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	14		ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	760		ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	55		ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.4	I	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	33		ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	740		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	37		ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	80		ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	9.9		ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	180		ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	220		ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	13		ng/L	P411266	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411266	

Field ID: SP-19 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313515	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	18		ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411266	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 11:00

Field ID: SP-19 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313516	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	52		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	18		ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	12		ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	830		ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	47		ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.4	I	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	26		ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	670		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	31		ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	80		ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	9.8		ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	150		ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	100		ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	7.5		ng/L	P411266	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411266	

Field ID: SP-19 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313516	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	16		ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411266	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 11:45

Field ID: SP-19 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313517	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	49		ng/L	P411266	
		Perfluorobutanoic acid (PFBA)**	18		ng/L	P411266	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P411266	
		Perfluorododecanoic acid (PFDoA)**	2.2	U	ng/L	P411266	
		Perfluoroheptanoic acid (PFHpA)**	13		ng/L	P411266	
		Perfluorohexanesulfonic acid (PFHxS)**	1.1E+03		ng/L	P411266	
		Perfluorohexanoic acid (PFHxA)**	46		ng/L	P411266	
		Perfluorononanoic acid (PFNA)**	2.6	I	ng/L	P411266	
		Perfluorooctanoic acid (PFOA)**	40		ng/L	P411266	
		Perfluorooctanesulfonic acid (PFOS)**	1.1E+03		ng/L	P411266	
		Perfluoropentanoic acid (PFPeA)**	32		ng/L	P411266	
		Perfluorotetradecanoic acid (PFTeA)**	2.2	U	ng/L	P411266	
		Perfluorotridecanoic acid (PFTriA)**	2.2	U	ng/L	P411266	
		Perfluoroundecanoic acid (PFUnA)**	2.2	U	ng/L	P411266	
		Perfluoropentanesulfonic acid (PFPeS)**	84		ng/L	P411266	
		Perfluoroheptanesulfonic acid (PFHpS)**	14		ng/L	P411266	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P411266	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P411266	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P411266	
		Perfluoro-1-butane sulfonamide (FBSA)**	210		ng/L	P411266	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	360		ng/L	P411266	
		Perfluoro-1-octane sulfonamide (FOSA)**	13		ng/L	P411266	
		11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.2	U	ng/L	P411266	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.2	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.2	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411266	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.2	U	ng/L	P411266	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.87	U	ng/L	P411266	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.87	U	ng/L	P411266	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P411266	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.3	U	ng/L	P411266	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P411266	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P411266	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P411266	

Field ID: SP-19 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313517	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	15	I	ng/L	P411266	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.7	U	ng/L	P411266	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 12:10

Field ID: SP-19 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313518	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	48		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	20		ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.1	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	16		ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	930		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	65		ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.1	I	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	33		ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	1.1E+03		ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	35		ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	79		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	15		ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.41	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.41	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.41	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	240		ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	230		ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	15		ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.83	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.83	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.1	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.1	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.1	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.1	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.1	U	ng/L	P411405	

Field ID: SP-19 (91-95')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313518	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	17		ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.3	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 14:25

Field ID: SP-19 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313519	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	59		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	20		ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.5	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.3	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	19		ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	1.2E+03		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	64		ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.6	I	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	35		ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	1.2E+03		ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	43		ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.3	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.3	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.3	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	95		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	18		ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.45	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.45	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.45	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	320		ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	190		ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	4.5		ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.3	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.3	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.3	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	18	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.3	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.90	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.90	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.5	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)**	4.5	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.5	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.5	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.5	U	ng/L	P411405	

Field ID: SP-19 (101-105')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313519	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	18	I	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	9.0	U	ng/L	P411405	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 15:40

Field ID: SP-19 (111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313520	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	66		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	22		ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.3	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	18		ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	560		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	49		ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	3.5	I	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	37		ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	940		ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	42		ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	75		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	11		ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.43	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.43	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.43	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	130		ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	240		ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	32		ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	17	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.85	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.85	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.3	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.3	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.3	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.3	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.3	U	ng/L	P411405	

Field ID: SP-19 (111-115')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313520	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	21		ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.5	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/15/2022 17:20

Field ID: EQB-79

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313521	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411405	

Field ID: EQB-79

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313521	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/16/2022 11:25

Field ID: SP-36 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313522	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	36		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	390		ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.2	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.1	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	400		ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	140		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	840		ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	3.4	I	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	75		ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	54		ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	1.4E+03		ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.1	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.1	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.1	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	34		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.4	I	ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.42	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.42	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.42	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	3.0	I	ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.5		ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.42	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.1	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.1	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.1	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	130		ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.1	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.84	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.84	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.2	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.2	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.2	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.2	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.2	U	ng/L	P411405	

Field ID: SP-36 (61-65')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313522	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	7.7	I	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.4	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample. The sample bottle contained a significant amount of solids. MDLs are elevated due to a limited amount of sample volume. Results may be biased.

Sample Location: Florida State Fire College

Collection Date/Time: 03/16/2022 11:55

Field ID: SP-36 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313523	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	6.4		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	33		ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	17		ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	19		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	61		ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	2.1	I	ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	150		ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	5.1		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411405	

Field ID: SP-36 (71-75')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313523	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/16/2022 14:25

Field ID: SP-36 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313524	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	51		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	570		ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	840		ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	470		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	1.1E+03		ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	30		ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	370		ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	240		ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	1.4E+03		ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	67		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	9.3		ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	8.0		ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	38		ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	5.2	I	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	1.3E+03		ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411405	

Field ID: SP-36 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313524	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	14	I	ng/L	P411405	
		Nonfluoro-3,6-dioxahexanoic acid (NFDHA)**	8.0	U	ng/L	P411405	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/16/2022 15:10

Field ID: SP-36 (88-92')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313525	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	18		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	210		ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	160		ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	100		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	380		ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.5	I	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	55		ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	35		ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	520		ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	18		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	1.1	I	ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	2.7	I	ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	3.6		ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	140		ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411405	

Field ID: SP-36 (88-92')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313525	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	5.0	I	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/16/2022 16:50

Field ID: EQB-86

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313526	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	0.40	U	ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	0.80	U	ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	2.0	U	ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	0.40	U	ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411405	

Field ID: EQB-86

Matrix: W-EQPMT-BK

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313526	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/17/2022 10:45

Field ID: SP-37 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313527	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	1.7		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	7.7		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	3.4	I	ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	1.6		ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	0.80	U	ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411405	

Field ID: SP-37 (81-85')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313527	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411405	

Ref. Method and Comment:

DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Sample Location: Florida State Fire College

Collection Date/Time: 03/17/2022 11:40

Field ID: SP-37 (88-92')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313528	DEP SOP: LC-001-3	Perfluorobutanesulfonic acid (PFBS)**	2.3		ng/L	P411405	
		Perfluorobutanoic acid (PFBA)**	4.0	U	ng/L	P411405	
		Perfluorodecanoic acid (PFDA)**	4.0	U	ng/L	P411405	
		Perfluorododecanoic acid (PFDoA)**	2.0	U	ng/L	P411405	
		Perfluoroheptanoic acid (PFHpA)**	2.0	U	ng/L	P411405	
		Perfluorohexanesulfonic acid (PFHxS)**	6.4		ng/L	P411405	
		Perfluorohexanoic acid (PFHxA)**	2.0	U	ng/L	P411405	
		Perfluorononanoic acid (PFNA)**	2.0	U	ng/L	P411405	
		Perfluorooctanoic acid (PFOA)**	2.0	U	ng/L	P411405	
		Perfluorooctanesulfonic acid (PFOS)**	52		ng/L	P411405	
		Perfluoropentanoic acid (PFPeA)**	2.0	U	ng/L	P411405	
		Perfluorotetradecanoic acid (PFTeA)**	2.0	U	ng/L	P411405	
		Perfluorotridecanoic acid (PFTriA)**	2.0	U	ng/L	P411405	
		Perfluoroundecanoic acid (PFUnA)**	2.0	U	ng/L	P411405	
		Perfluoropentanesulfonic acid (PFPeS)**	0.78	I	ng/L	P411405	
		Perfluoroheptanesulfonic acid (PFHpS)**	0.80	U	ng/L	P411405	
		Perfluorononanesulfonic acid (PFNS)**	0.40	U	ng/L	P411405	
		Perfluorodecanesulfonic acid (PFDS)**	0.40	U	ng/L	P411405	
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)**	0.40	U	ng/L	P411405	
		Perfluoro-1-butane sulfonamide (FBSA)**	0.91	I	ng/L	P411405	
		Perfluoro-1-hexane sulfonamide (FHxSA)**	17		ng/L	P411405	
		Perfluoro-1-octane sulfonamide (FOSA)**	0.40	U	ng/L	P411405	
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)**	2.0	U	ng/L	P411405	
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)**	2.0	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)**	16	U	ng/L	P411405	
		1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)**	2.0	U	ng/L	P411405	
		N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)**	0.80	U	ng/L	P411405	
		N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)**	0.80	U	ng/L	P411405	
		Hexafluoropropylene oxide dimer acid (HFPO-DA)**	4.0	U	ng/L	P411405	
		Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-methoxybutanoic acid (PFMBA)**	4.0	U	ng/L	P411405	
		Perfluoro-3-methoxypropanoic acid (PFMPA)**	4.0	U	ng/L	P411405	
		Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)**	4.0	U	ng/L	P411405	

Field ID: SP-37 (88-92')

Matrix: W-GROUND

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2313528	DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)**	4.0	U	ng/L	P411405	
		Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)**	8.0	U	ng/L	P411405	

Ref. Method and Comment:
DEP SOP: LC-001-3: MS accuracy for PFOS could not be assessed due to a high concentration of parameter in the spiked sample.

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P411266

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Component	Result	Code	Units
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	2.0	U	ng/L
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	16	U	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.40	U	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	2.0	U	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	4.0	U	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.80	U	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.80	U	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.0	U	ng/L
Perfluoro-1-butane sulfonamide (FBSA)	0.80	U	ng/L

Quality Assurance Report

Method Blank Results

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Component	Result	Code	Units
Perfluoro-1-hexane sulfonamide (FHxSA)	0.80	U	ng/L
Perfluoro-1-octane sulfonamide (FOSA)	0.40	U	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.0	U	ng/L
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	4.0	U	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.0	U	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.0	U	ng/L
Perfluorobutanesulfonic acid (PFBS)	0.40	U	ng/L
Perfluorobutanoic acid (PFBA)	4.0	U	ng/L
Perfluorodecanesulfonic acid (PFDS)	0.40	U	ng/L
Perfluorodecanoic acid (PFDA)	4.0	U	ng/L
Perfluorododecanoic acid (PFDoA)	2.0	U	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	0.80	U	ng/L
Perfluoroheptanoic acid (PFHpA)	2.0	U	ng/L
Perfluorohexanesulfonic acid (PFHxS)	0.80	U	ng/L
Perfluorohexanoic acid (PFHxA)	2.0	U	ng/L
Perfluorononanesulfonic acid (PFNS)	0.40	U	ng/L
Perfluorononanoic acid (PFNA)	2.0	U	ng/L
Perfluorooctanesulfonic acid (PFOS)	2.0	U	ng/L
Perfluorooctanoic acid (PFOA)	2.0	U	ng/L
Perfluoropentanesulfonic acid (PFPeS)	0.40	U	ng/L
Perfluoropentanoic acid (PFPeA)	2.0	U	ng/L
Perfluoropropanesulfonic acid (PFPrS)	4.0	U	ng/L
Perfluorotetradecanoic acid (PFTeA)	2.0	U	ng/L
Perfluorotridecanoic acid (PFTriA)	2.0	U	ng/L
Perfluoroundecanoic acid (PFUnA)	2.0	U	ng/L

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411266

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	114		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	120		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	113		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	149		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	134		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.9		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	98.6		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	90.9		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	78.9		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	154		P	30 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	158		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	97.2		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	119		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	78.2		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	118		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	114		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	103		P	30 - 160
Perfluorobutanoic acid (PFBA)	109		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	106		P	30 - 160
Perfluorodecanoic acid (PFDA)	96.2		P	30 - 160
Perfluorododecanoic acid (PFDoA)	109		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	71.7		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	100		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	95.6		P	30 - 160
Perfluorohexanoic acid (PFHxA)	118		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	105		P	30 - 160
Perfluorononanoic acid (PFNA)	111		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	116		P	30 - 160
Perfluorooctanoic acid (PFOA)	97.0		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	106		P	30 - 160
Perfluoropentanoic acid (PFPeA)	117		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	84.1		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	156		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	156		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	120		P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.1		P	30 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.4		P	30 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.0		P	30 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	107		P	30 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	156		P	30 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	110		P	30 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	59.1		P	30 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	118		P	30 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	109		P	30 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	117		P	30 - 160
Perfluoro-1-butane sulfonamide (FBSA)	159		P	30 - 160

Quality Assurance Report

Laboratory Control Sample Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Perfluoro-1-hexane sulfonamide (FHxSA)	122		P	30 - 160
Perfluoro-1-octane sulfonamide (FOSA)	102		P	30 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	116		P	30 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.7		P	30 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	132		P	30 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111		P	30 - 160
Perfluorobutanesulfonic acid (PFBS)	99.0		P	30 - 160
Perfluorobutanoic acid (PFBA)	104		P	30 - 160
Perfluorodecanesulfonic acid (PFDS)	108		P	30 - 160
Perfluorodecanoic acid (PFDA)	95.4		P	30 - 160
Perfluorododecanoic acid (PFDoA)	143		P	30 - 160
Perfluoroheptanesulfonic acid (PFHpS)	75.1		P	30 - 160
Perfluoroheptanoic acid (PFHpA)	128		P	30 - 160
Perfluorohexanesulfonic acid (PFHxS)	101		P	30 - 160
Perfluorohexanoic acid (PFHxA)	103		P	30 - 160
Perfluorononanesulfonic acid (PFNS)	100		P	30 - 160
Perfluorononanoic acid (PFNA)	106		P	30 - 160
Perfluorooctanesulfonic acid (PFOS)	110		P	30 - 160
Perfluorooctanoic acid (PFOA)	116		P	30 - 160
Perfluoropentanesulfonic acid (PFPeS)	115		P	30 - 160
Perfluoropentanoic acid (PFPeA)	108		P	30 - 160
Perfluoropropanesulfonic acid (PFPrS)	67.5		P	30 - 160
Perfluorotetradecanoic acid (PFTeA)	139		P	30 - 160
Perfluorotridecanoic acid (PFTriA)	144		P	30 - 160
Perfluoroundecanoic acid (PFUnA)	108		P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411266

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313234	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	59.5	64.7	P/P	30 - 160
2313234	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	111	91.3	P/P	30 - 160
2313234	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	85.1	110	P/P	30 - 160
2313234	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	99.8	119	P/P	30 - 160
2313234	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	132	158	P/P	30 - 160
2313234	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	99.9	101	P/P	30 - 160
2313234	Hexafluoropropylene oxide dimer acid (HFPO-DA)	78.5	73.7	P/P	30 - 160
2313234	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	109	145	P/P	30 - 160
2313234	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	108	82.6	P/P	30 - 160
2313234	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	100	99.2	P/P	30 - 160
2313234	Perfluoro-1-butane sulfonamide (FBSA)	134	138	P/P	30 - 160
2313234	Perfluoro-1-hexane sulfonamide (FHxSA)	132	136	P/P	30 - 160
2313234	Perfluoro-1-octane sulfonamide (FOSA)	93.2	104	P/P	30 - 160
2313234	Perfluoro-3-methoxypropanoic acid (PFMPA)	113	125	P/P	30 - 160
2313234	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.6	73.0	P/P	30 - 160
2313234	Perfluoro-4-methoxybutanoic acid (PFMBA)	115	112	P/P	30 - 160
2313234	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	102	122	P/P	30 - 160
2313234	Perfluorobutanesulfonic acid (PFBS)	103	136	P/P	30 - 160
2313234	Perfluorobutanoic acid (PFBA)	119	121	P/P	30 - 160
2313234	Perfluorodecanesulfonic acid (PFDS)	63.7	65.5	P/P	30 - 160
2313234	Perfluorodecanoic acid (PFDA)	114	106	P/P	30 - 160
2313234	Perfluorododecanoic acid (PFDoA)	99.4	92.8	P/P	30 - 160
2313234	Perfluoroheptanesulfonic acid (PFHpS)	69.1	67.2	P/P	30 - 160
2313234	Perfluoroheptanoic acid (PFHpA)	104	106	P/P	30 - 160
2313234	Perfluorohexanesulfonic acid (PFHxS)	104	88.5	P/P	30 - 160
2313234	Perfluorohexanoic acid (PFHxA)	107	126	P/P	30 - 160
2313234	Perfluorononanesulfonic acid (PFNS)	79.2	77.9	P/P	30 - 160
2313234	Perfluorononanoic acid (PFNA)	88.1	116	P/P	30 - 160
2313234	Perfluorooctanoic acid (PFOA)	108	117	P/P	30 - 160
2313234	Perfluoropentanesulfonic acid (PFPeS)	102	121	P/P	30 - 160
2313234	Perfluoropentanoic acid (PFPeA)	148	118	P/P	30 - 160
2313234	Perfluoropropanesulfonic acid (PFPrS)	97.0	104	P/P	30 - 160
2313234	Perfluorotetradecanoic acid (PFTeA)	118	134	P/P	30 - 160
2313234	Perfluorotridecanoic acid (PFTriA)	159	147	P/P	30 - 160
2313234	Perfluoroundecanoic acid (PFUnA)	137	128	P/P	30 - 160

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313587	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	68.4	75.1	P/P	30 - 160
2313587	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	86.4	86.1	P/P	30 - 160
2313587	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.4	98.3	P/P	30 - 160
2313587	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	104	90.1	P/P	30 - 160
2313587	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	160	124	P/P	30 - 160
2313587	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	113	120	P/P	30 - 160
2313587	Hexafluoropropylene oxide dimer acid (HFPO-DA)	86.8	74.1	P/P	30 - 160
2313587	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	128	122	P/P	30 - 160
2313587	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	114	103	P/P	30 - 160
2313587	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	111	89.1	P/P	30 - 160
2313587	Perfluoro-1-butane sulfonamide (FBSA)	160	155	P/P	30 - 160
2313587	Perfluoro-1-hexane sulfonamide (FHxSA)	128	128	P/P	30 - 160

Quality Assurance Report Matrix Spike Accuracy

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2313587	Perfluoro-1-octane sulfonamide (FOSA)	96.7	97.0	P/P	30 - 160
2313587	Perfluoro-3-methoxypropanoic acid (PFMPA)	119	127	P/P	30 - 160
2313587	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.1	74.9	P/P	30 - 160
2313587	Perfluoro-4-methoxybutanoic acid (PFMBA)	127	117	P/P	30 - 160
2313587	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	115	110	P/P	30 - 160
2313587	Perfluorobutanesulfonic acid (PFBS)	90.5	90.1	P/P	30 - 160
2313587	Perfluorobutanoic acid (PFBA)	135	134	P/P	30 - 160
2313587	Perfluorodecanesulfonic acid (PFDS)	76.6	70.5	P/P	30 - 160
2313587	Perfluorodecanoic acid (PFDA)	111	108	P/P	30 - 160
2313587	Perfluorododecanoic acid (PFDoA)	97.7	78.7	P/P	30 - 160
2313587	Perfluoroheptanesulfonic acid (PFHpS)	68.4	66.8	P/P	30 - 160
2313587	Perfluoroheptanoic acid (PFHpA)	79.1	72.4	P/P	30 - 160
2313587	Perfluorohexanesulfonic acid (PFHxS)	88.0	109	P/P	30 - 160
2313587	Perfluorohexanoic acid (PFHxA)	73.9	86.6	P/P	30 - 160
2313587	Perfluorononanesulfonic acid (PFNS)	95.3	89.5	P/P	30 - 160
2313587	Perfluorononanoic acid (PFNA)	99.9	81.1	P/P	30 - 160
2313587	Perfluorooctanoic acid (PFOA)	77.4	84.6	P/P	30 - 160
2313587	Perfluoropentanesulfonic acid (PFPeS)	116	104	P/P	30 - 160
2313587	Perfluoropentanoic acid (PFPeA)	91.5	86.8	P/P	30 - 160
2313587	Perfluoropropanesulfonic acid (PFPrS)	73.2	96.8	P/P	30 - 160
2313587	Perfluorotetradecanoic acid (PFTeA)	136	120	P/P	30 - 160
2313587	Perfluorotridecanoic acid (PFTriA)	137	116	P/P	30 - 160
2313587	Perfluoroundecanoic acid (PFUnA)	128	123	P/P	30 - 160

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411266

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313234	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	8.37	Spike	P	0 - 30
2313234	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	19.4	Spike	P	0 - 30
2313234	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	26.0	Spike	P	0 - 30
2313234	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	17.3	Spike	P	0 - 30
2313234	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	17.5	Spike	P	0 - 30
2313234	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	0.996	Spike	P	0 - 30
2313234	Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.31	Spike	P	0 - 30
2313234	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	28.1	Spike	P	0 - 30
2313234	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	26.8	Spike	P	0 - 30
2313234	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.00	Spike	P	0 - 30
2313234	Perfluoro-1-butane sulfonamide (FBSA)	2.57	Spike	P	0 - 30
2313234	Perfluoro-1-hexane sulfonamide (FHxSA)	3.14	Spike	P	0 - 30
2313234	Perfluoro-1-octane sulfonamide (FOSA)	10.6	Spike	P	0 - 30
2313234	Perfluoro-3-methoxypropanoic acid (PFMPA)	10.4	Spike	P	0 - 30
2313234	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	3.50	Spike	P	0 - 30
2313234	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.35	Spike	P	0 - 30
2313234	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	18.5	Spike	P	0 - 30
2313234	Perfluorobutanesulfonic acid (PFBS)	13.5	Spike	P	0 - 30
2313234	Perfluorobutanoic acid (PFBA)	1.10	Spike	P	0 - 30
2313234	Perfluorodecanesulfonic acid (PFDS)	2.79	Spike	P	0 - 30
2313234	Perfluorodecanoic acid (PFDA)	7.91	Spike	P	0 - 30
2313234	Perfluorododecanoic acid (PFDoA)	6.87	Spike	P	0 - 30
2313234	Perfluoroheptanesulfonic acid (PFHpS)	2.79	Spike	P	0 - 30
2313234	Perfluoroheptanoic acid (PFHpA)	1.76	Spike	P	0 - 30
2313234	Perfluorohexanesulfonic acid (PFHxS)	10.9	Spike	P	0 - 30
2313234	Perfluorohexanoic acid (PFHxA)	10.8	Spike	P	0 - 30
2313234	Perfluorononanesulfonic acid (PFNS)	1.65	Spike	P	0 - 30
2313234	Perfluorononanoic acid (PFNA)	24.5	Spike	P	0 - 30
2313234	Perfluorooctanesulfonic acid (PFOS)	5.00	Spike	P	0 - 30
2313234	Perfluorooctanoic acid (PFOA)	4.17	Spike	P	0 - 30
2313234	Perfluoropentanesulfonic acid (PFPeS)	16.4	Spike	P	0 - 30
2313234	Perfluoropentanoic acid (PFPeA)	12.6	Spike	P	0 - 30
2313234	Perfluoropropanesulfonic acid (PFPrS)	6.97	Spike	P	0 - 30
2313234	Perfluorotetradecanoic acid (PFTeA)	12.2	Spike	P	0 - 30
2313234	Perfluorotridecanoic acid (PFTriA)	7.51	Spike	P	0 - 30
2313234	Perfluoroundecanoic acid (PFUnA)	7.32	Spike	P	0 - 30

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313587	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	9.34	Spike	P	0 - 30
2313587	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.348	Spike	P	0 - 30
2313587	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	6.19	Spike	P	0 - 30
2313587	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	14.0	Spike	P	0 - 30
2313587	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	25.0	Spike	P	0 - 30
2313587	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	5.86	Spike	P	0 - 30
2313587	Hexafluoropropylene oxide dimer acid (HFPO-DA)	15.8	Spike	P	0 - 30
2313587	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.12	Spike	P	0 - 30
2313587	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.60	Spike	P	0 - 30

Quality Assurance Report Precision

Reference Method: DEP SOP: LC-001-3

Batch ID: P411405

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2313587	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	22.0	Spike	P	0 - 30
2313587	Perfluoro-1-butane sulfonamide (FBSA)	2.94	Spike	P	0 - 30
2313587	Perfluoro-1-hexane sulfonamide (FHxSA)	0.390	Spike	P	0 - 30
2313587	Perfluoro-1-octane sulfonamide (FOSA)	0.310	Spike	P	0 - 30
2313587	Perfluoro-3-methoxypropanoic acid (PFMPA)	6.25	Spike	P	0 - 30
2313587	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	0.267	Spike	P	0 - 30
2313587	Perfluoro-4-methoxybutanoic acid (PFMBA)	8.10	Spike	P	0 - 30
2313587	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.37	Spike	P	0 - 30
2313587	Perfluorobutanesulfonic acid (PFBS)	0.370	Spike	P	0 - 30
2313587	Perfluorobutanoic acid (PFBA)	0.742	Spike	P	0 - 30
2313587	Perfluorodecanesulfonic acid (PFDS)	8.29	Spike	P	0 - 30
2313587	Perfluorodecanoic acid (PFDA)	2.83	Spike	P	0 - 30
2313587	Perfluorododecanoic acid (PFDoA)	21.5	Spike	P	0 - 30
2313587	Perfluoroheptanesulfonic acid (PFHpS)	2.37	Spike	P	0 - 30
2313587	Perfluoroheptanoic acid (PFHpA)	6.01	Spike	P	0 - 30
2313587	Perfluorohexanesulfonic acid (PFHxS)	10.2	Spike	P	0 - 30
2313587	Perfluorohexanoic acid (PFHxA)	8.07	Spike	P	0 - 30
2313587	Perfluorononanesulfonic acid (PFNS)	6.28	Spike	P	0 - 30
2313587	Perfluorononanoic acid (PFNA)	20.8	Spike	P	0 - 30
2313587	Perfluorooctanesulfonic acid (PFOS)	0.371	Spike	P	0 - 30
2313587	Perfluorooctanoic acid (PFOA)	4.04	Spike	P	0 - 30
2313587	Perfluoropentanesulfonic acid (PFPeS)	9.75	Spike	P	0 - 30
2313587	Perfluoropentanoic acid (PFPeA)	2.56	Spike	P	0 - 30
2313587	Perfluoropropanesulfonic acid (PFPrS)	27.8	Spike	P	0 - 30
2313587	Perfluorotetradecanoic acid (PFTeA)	11.9	Spike	P	0 - 30
2313587	Perfluorotridecanoic acid (PFTriA)	16.7	Spike	P	0 - 30
2313587	Perfluoroundecanoic acid (PFUnA)	3.99	Spike	P	0 - 30

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2313506

Field Sample ID: SP-15 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	88.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	147	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.0	P	30 - 160

Lab Sample ID: 2313507

Field Sample ID: SP-15 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	59.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.4	P	30 - 160

Lab Sample ID: 2313508

Field Sample ID: SP-15 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	91.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	94.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	89.2	P	30 - 160

Lab Sample ID: 2313509

Field Sample ID: SP-15 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	75.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	97.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	96.8	P	30 - 160

Lab Sample ID: 2313510

Field Sample ID: SP-15 (101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.2	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	131	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	88.2	P	30 - 160

Lab Sample ID: 2313511

Field Sample ID: FRB-36

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	116	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2313511
Field Sample ID: FRB-36

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.7	P	30 - 160

Lab Sample ID: 2313512
Field Sample ID: SP-19 (41-45')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	89.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2313513
Field Sample ID: SP-19 (51-55')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	78.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	98.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	126	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.8	P	30 - 160

Lab Sample ID: 2313514
Field Sample ID: SP-19 (51-55') DUP

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	70.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	83.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.7	P	30 - 160

Lab Sample ID: 2313515
Field Sample ID: SP-19 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	127	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	158	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.8	P	30 - 160

Lab Sample ID: 2313516
Field Sample ID: SP-19 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	107	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	125	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2313516
Field Sample ID: SP-19 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.6	P	30 - 160

Lab Sample ID: 2313517
Field Sample ID: SP-19 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	71.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	105	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	106	P	30 - 160

Lab Sample ID: 2313518
Field Sample ID: SP-19 (91-95')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	74.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	92.3	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.8	P	30 - 160

Lab Sample ID: 2313519
Field Sample ID: SP-19 (101-105')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	106	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	124	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	117	P	30 - 160

Lab Sample ID: 2313520
Field Sample ID: SP-19 (111-115')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	87.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	78.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	121	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	102	P	30 - 160

Lab Sample ID: 2313521
Field Sample ID: EQB-79

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	82.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	113	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	100	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2313522

Field Sample ID: SP-36 (61-65')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	102	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	104	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	118	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	84.3	P	30 - 160

Lab Sample ID: 2313523

Field Sample ID: SP-36 (71-75')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	68.9	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	110	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	100	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	119	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	106	P	30 - 160

Lab Sample ID: 2313524

Field Sample ID: SP-36 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	77.8	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	115	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	117	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	91.7	P	30 - 160

Lab Sample ID: 2313525

Field Sample ID: SP-36 (88-92')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	69.0	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	132	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	114	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	86.5	P	30 - 160

Lab Sample ID: 2313526

Field Sample ID: EQB-86

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	72.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	108	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	120	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	87.1	P	30 - 160

Lab Sample ID: 2313527

Field Sample ID: SP-37 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	79.6	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	107	P	30 - 160

Quality Assurance Report Surrogates

Lab Sample ID: 2313527
Field Sample ID: SP-37 (81-85')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	122	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	111	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	98.9	P	30 - 160

Lab Sample ID: 2313528
Field Sample ID: SP-37 (88-92')

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
DEP SOP: LC-001-3	Hexafluoropropylene oxide dimer acid-13C	73.4	P	30 - 160
DEP SOP: LC-001-3	Perfluorobutanesulfonate-13C	112	P	30 - 160
DEP SOP: LC-001-3	Perfluorodecanoic acid-13C	135	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanesulfonate-13C	109	P	30 - 160
DEP SOP: LC-001-3	Perfluorohexanoic acid-13C	95.5	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111267

Included Lab Sample IDs: 2313506, 2313507, 2313508, 2313509, 2313510, 2313511, 2313512, 2313513, 2313514, 2313515, 2313516, 2313517, 2313518, 2313519, 2313520, 2313521, 2313522, 2313523, 2313524, 2313525, 2313526, 2313527, 2313528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	106	123	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	110	116	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	116	110	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	121	116	P/P	60 - 160
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	123	121	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	102	95.8	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	116	90.2	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	83.5	116	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	90.2	97.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	95.8	83.5	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	103	117	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	104	103	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	92.4	97.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.0	97.3	P/P	60 - 160
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	97.3	104	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	106	130	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	108	98.7	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	120	98.0	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	96.5	120	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.0	113	P/P	60 - 160
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	98.7	96.5	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	143	157	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	148	143	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	156	159	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	157	156	P/P	60 - 160
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	159	156	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	105	127	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	111	124	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	120	111	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	124	117	P/P	60 - 160
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	127	120	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	70.1	79.9	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	79.9	93.4	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	82.7	88.8	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	88.8	93.0	P/P	60 - 160
Hexafluoropropylene oxide dimer acid (HFPO-DA)	93.0	70.1	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	118	112	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	121	97.3	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	127	128	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	128	118	P/P	60 - 160
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.3	127	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	104	113	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	112	104	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	113	119	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	119	96.0	P/P	60 - 160
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.0	95.5	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	104	157	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	119	96.4	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	125	104	P/P	60 - 160
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	130	119	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111267

Included Lab Sample IDs: 2313506, 2313507, 2313508, 2313509, 2313510, 2313511, 2313512, 2313513, 2313514, 2313515, 2313516, 2313517, 2313518, 2313519, 2313520, 2313521, 2313522, 2313523, 2313524, 2313525, 2313526, 2313527, 2313528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	96.4	125	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	125	159	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	145	152	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	152	154	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	154	156	P/P	60 - 160
Perfluoro-1-butane sulfonamide (FBSA)	159	145	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	114	122	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	116	123	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	118	124	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	122	116	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	123	118	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	123	132	P/P	60 - 160
Perfluoro-1-hexane sulfonamide (FHxSA)	132	126	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	101	96.1	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	89.9	101	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	96.1	98.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.9	96.9	P/P	60 - 160
Perfluoro-1-octane sulfonamide (FOSA)	98.9	98.9	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	117	121	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	121	130	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	123	117	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	130	123	P/P	60 - 160
Perfluoro-3-methoxypropanoic acid (PFMPA)	82.3	117	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	68.2	70.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	70.3	74.1	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.1	75.3	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	75.3	87.8	P/P	60 - 160
Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	84.6	68.2	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	103	117	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	114	103	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	117	138	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	138	120	P/P	60 - 160
Perfluoro-4-methoxybutanoic acid (PFMBA)	62.7	114	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	101	111	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	104	118	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	106	104	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	111	106	P/P	60 - 160
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	120	101	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	100	99.8	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	107	100	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	93.7	108	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	96.3	93.7	P/P	60 - 160
Perfluorobutanesulfonic acid (PFBS)	99.8	96.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	102	99.3	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	103	100	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	103	102	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	109	103	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	112	109	P/P	60 - 160
Perfluorobutanoic acid (PFBA)	99.3	105	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	107	114	P/P	60 - 160

Quality Assurance Report

Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111267

Included Lab Sample IDs: 2313506, 2313507, 2313508, 2313509, 2313510, 2313511, 2313512, 2313513, 2313514, 2313515, 2313516, 2313517, 2313518, 2313519, 2313520, 2313521, 2313522, 2313523, 2313524, 2313525, 2313526, 2313527, 2313528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorodecanesulfonic acid (PFDS)	113	117	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	114	113	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	120	107	P/P	60 - 160
Perfluorodecanesulfonic acid (PFDS)	97.6	120	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	118	95.9	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	121	95.3	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	95.9	99.2	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	99.2	99.8	P/P	60 - 160
Perfluorodecanoic acid (PFDA)	99.8	121	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	107	134	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	114	90.7	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	134	158	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	158	124	P/P	60 - 160
Perfluorododecanoic acid (PFDoA)	90.7	107	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	61.3	70.4	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	62.5	61.3	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	68.8	76.0	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	70.4	68.8	P/P	60 - 160
Perfluoroheptanesulfonic acid (PFHpS)	76.1	62.5	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	101	89.0	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	106	107	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	89.0	97.2	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	92.3	106	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	92.6	107	P/P	60 - 160
Perfluoroheptanoic acid (PFHpA)	97.2	92.3	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	103	90.7	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	103	110	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	110	98.8	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	90.6	98.4	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	90.7	90.6	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	94.2	109	P/P	60 - 160
Perfluorohexanesulfonic acid (PFHxS)	98.4	94.2	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	105	95.8	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	106	87.3	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	87.3	87.4	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	95.8	106	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	96.8	101	P/P	60 - 160
Perfluorohexanoic acid (PFHxA)	98.7	105	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	106	90.4	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	90.4	97.5	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	91.6	106	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	97.5	94.2	P/P	60 - 160
Perfluorononanesulfonic acid (PFNS)	97.5	97.5	P/P	60 - 160
Perfluorononanoic acid (PFNA)	111	83.8	P/P	60 - 160
Perfluorononanoic acid (PFNA)	83.8	100	P/P	60 - 160
Perfluorononanoic acid (PFNA)	89.1	91.7	P/P	60 - 160
Perfluorononanoic acid (PFNA)	91.7	111	P/P	60 - 160
Perfluorononanoic acid (PFNA)	93.5	89.1	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	100	116	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	109	106	P/P	60 - 160

Quality Assurance Report Calibration Verification

Reference Method: DEP SOP: LC-001-3

Run ID: A111267

Included Lab Sample IDs: 2313506, 2313507, 2313508, 2313509, 2313510, 2313511, 2313512, 2313513, 2313514, 2313515, 2313516, 2313517, 2313518, 2313519, 2313520, 2313521, 2313522, 2313523, 2313524, 2313525, 2313526, 2313527, 2313528

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Perfluorooctanesulfonic acid (PFOS)	110	110	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	110	109	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	114	120	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	116	126	P/P	60 - 160
Perfluorooctanesulfonic acid (PFOS)	120	110	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	105	110	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	111	90.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	90.3	97.3	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	95.8	106	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	97.3	98.1	P/P	60 - 160
Perfluorooctanoic acid (PFOA)	98.1	105	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	104	114	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	114	122	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	114	123	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	122	114	P/P	60 - 160
Perfluoropentanesulfonic acid (PFPeS)	135	104	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	102	119	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	103	116	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	116	118	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	116	134	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	118	113	P/P	60 - 160
Perfluoropentanoic acid (PFPeA)	134	116	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	112	73.9	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	73.9	85.5	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	78.1	63.8	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	84.5	78.1	P/P	60 - 160
Perfluoropropanesulfonic acid (PFPrS)	85.5	84.5	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	118	127	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	127	114	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	132	118	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	138	152	P/P	60 - 160
Perfluorotetradecanoic acid (PFTeA)	152	132	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	106	147	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	126	106	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	139	126	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	147	144	P/P	60 - 160
Perfluorotridecanoic acid (PFTriA)	157	139	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	106	111	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	111	98.3	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	116	106	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	125	90.8	P/P	60 - 160
Perfluoroundecanoic acid (PFUnA)	90.8	116	P/P	60 - 160

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	95.0	59.5	64.7			8.37
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	92.1	68.4	75.1			9.34
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	114	111	91.3			19.4
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	93.4	86.4	86.1			0.348
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	120	85.1	110			26.0
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	95.0	92.4	98.3			6.19
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	113	99.8	119			17.3
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	107	104	90.1			14.0
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	149	132	158			17.5
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	156	160	124			25.0
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	134	99.9	101			0.996
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	110	113	120			5.86
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	80.9	78.5	73.7			6.31
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	59.1	86.8	74.1			15.8
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	98.6	109	145			28.1
	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	118	128	122			5.12
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	90.9	108	82.6			26.8
	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	109	114	103			9.60
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	78.9	100	99.2			1.00
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	117	111	89.1			22.0
	Perfluoro-1-butane sulfonamide (FBSA)	154	134	138			2.57
	Perfluoro-1-butane sulfonamide (FBSA)	159	160	155			2.94
	Perfluoro-1-hexane sulfonamide (FHxSA)	158	132	136			3.14
	Perfluoro-1-hexane sulfonamide (FHxSA)	122	128	128			0.390
	Perfluoro-1-octane sulfonamide (FOSA)	97.2	93.2	104			10.6
	Perfluoro-1-octane sulfonamide (FOSA)	102	96.7	97.0			0.310
	Perfluoro-3-methoxypropanoic acid (PFMPA)	119	113	125			10.4
	Perfluoro-3-methoxypropanoic acid (PFMPA)	116	119	127			6.25

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision SMP	MS
DEP SOP: LC-001-3	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	78.2	75.6	73.0			3.50
	Perfluoro-4-ethylcyclohexanesulfonic acid (PFECHS)	74.7	75.1	74.9			0.267
	Perfluoro-4-methoxybutanoic acid (PFMBA)	118	115	112			3.35
	Perfluoro-4-methoxybutanoic acid (PFMBA)	132	127	117			8.10
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	114	102	122			18.5
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	111	115	110			4.37
	Perfluorobutanesulfonic acid (PFBS)	103	103	136			13.5
	Perfluorobutanesulfonic acid (PFBS)	99.0	90.5	90.1			0.370
	Perfluorobutanoic acid (PFBA)	109	119	121			1.10
	Perfluorobutanoic acid (PFBA)	104	135	134			0.742
	Perfluorodecanesulfonic acid (PFDS)	106	63.7	65.5			2.79
	Perfluorodecanesulfonic acid (PFDS)	108	76.6	70.5			8.29
	Perfluorodecanoic acid (PFDA)	96.2	114	106			7.91
	Perfluorodecanoic acid (PFDA)	95.4	111	108			2.83
	Perfluorododecanoic acid (PFDoA)	109	99.4	92.8			6.87
	Perfluorododecanoic acid (PFDoA)	143	97.7	78.7			21.5
	Perfluoroheptanesulfonic acid (PFHpS)	71.7	69.1	67.2			2.79
	Perfluoroheptanesulfonic acid (PFHpS)	75.1	68.4	66.8			2.37
	Perfluoroheptanoic acid (PFHpA)	100	104	106			1.76
	Perfluoroheptanoic acid (PFHpA)	128	79.1	72.4			6.01
	Perfluorohexanesulfonic acid (PFHxS)	95.6	104	88.5			10.9
	Perfluorohexanesulfonic acid (PFHxS)	101	88.0	109			10.2
	Perfluorohexanoic acid (PFHxA)	118	107	126			10.8
	Perfluorohexanoic acid (PFHxA)	103	73.9	86.6			8.07
	Perfluorononanesulfonic acid (PFNS)	105	79.2	77.9			1.65
	Perfluorononanesulfonic acid (PFNS)	100	95.3	89.5			6.28
	Perfluorononanoic acid (PFNA)	111	88.1	116			24.5
	Perfluorononanoic acid (PFNA)	106	99.9	81.1			20.8
	Perfluorooctanesulfonic acid (PFOS)	116					5.00
	Perfluorooctanesulfonic acid (PFOS)	110					0.371
	Perfluorooctanoic acid (PFOA)	97.0	108	117			4.17
	Perfluorooctanoic acid (PFOA)	116	77.4	84.6			4.04
	Perfluoropentanesulfonic acid (PFPeS)	106	102	121			16.4
	Perfluoropentanesulfonic acid (PFPeS)	115	116	104			9.75
	Perfluoropentanoic acid (PFPeA)	117	148	118			12.6
	Perfluoropentanoic acid (PFPeA)	108	91.5	86.8			2.56
	Perfluoropropanesulfonic acid (PFPrS)	84.1	97.0	104			6.97

Quality Assurance Report
Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		Precision SMP	MS
			LCS	MS		
DEP SOP: LC-001-3	Perfluoropropanesulfonic acid (PFPrS)	67.5	73.2	96.8		27.8
	Perfluorotetradecanoic acid (PFTeA)	156	118	134		12.2
	Perfluorotetradecanoic acid (PFTeA)	139	136	120		11.9
	Perfluorotridecanoic acid (PFTriA)	156	159	147		7.51
	Perfluorotridecanoic acid (PFTriA)	144	137	116		16.7
	Perfluoroundecanoic acid (PFUnA)	120	137	128		7.32
	Perfluoroundecanoic acid (PFUnA)	108	128	123		3.99

Reference Method Descriptions

Method	Description	Associated Samples
DEP SOP: LC-001-3	Perfluorinated alkyl substances in water matrices by HPLC/MS/MS	2313506, 2313507, 2313508, 2313509, 2313510, 2313511, 2313512, 2313513, 2313514, 2313515, 2313516, 2313517, 2313518, 2313519, 2313520, 2313521, 2313522, 2313523, 2313524, 2313525, 2313526, 2313527, 2313528

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
DEP SOP: LC-001-3	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 14:38	Mohammad Ghaffari	2313511
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 15:43	Mohammad Ghaffari	2313513
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 15:53	Mohammad Ghaffari	2313514
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 16:26	Mohammad Ghaffari	2313506
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 16:47	Mohammad Ghaffari	2313507
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 16:58	Mohammad Ghaffari	2313508
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 17:09	Mohammad Ghaffari	2313509
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 17:20	Mohammad Ghaffari	2313510
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 17:31	Mohammad Ghaffari	2313512
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 17:41	Mohammad Ghaffari	2313515
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 17:52	Mohammad Ghaffari	2313516
	03/22/2022	03/23/2022 11:00	Hoor Shaik	03/31/2022 18:03	Mohammad Ghaffari	2313517
	03/22/2022	03/23/2022 11:00	Hoor Shaik	04/01/2022 08:21	Mohammad Ghaffari	2313513
	03/22/2022	03/23/2022 11:00	Hoor Shaik	04/01/2022 08:32	Mohammad Ghaffari	2313514
	03/22/2022	03/23/2022 11:00	Hoor Shaik	04/01/2022 08:43	Mohammad Ghaffari	2313512
	03/22/2022	03/23/2022 11:00	Hoor Shaik	04/01/2022 08:53	Mohammad Ghaffari	2313515
	03/22/2022	03/23/2022 11:00	Hoor Shaik	04/01/2022 09:04	Mohammad Ghaffari	2313516
	03/22/2022	03/23/2022 11:00	Hoor Shaik	04/01/2022 09:15	Mohammad Ghaffari	2313517
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 18:46	Mohammad Ghaffari	2313521
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 18:57	Mohammad Ghaffari	2313526
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 19:51	Mohammad Ghaffari	2313518
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 20:12	Mohammad Ghaffari	2313519
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 20:23	Mohammad Ghaffari	2313520
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 20:34	Mohammad Ghaffari	2313522
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 20:45	Mohammad Ghaffari	2313523
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 20:56	Mohammad Ghaffari	2313524
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 21:06	Mohammad Ghaffari	2313525
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 21:17	Mohammad Ghaffari	2313527
	03/22/2022	03/28/2022 09:00	Hoor Shaik	03/31/2022 21:28	Mohammad Ghaffari	2313528
	03/22/2022	03/28/2022 09:00	Hoor Shaik	04/01/2022 10:20	Mohammad Ghaffari	2313518
	03/22/2022	03/28/2022 09:00	Hoor Shaik	04/01/2022 10:30	Mohammad Ghaffari	2313519
	03/22/2022	03/28/2022 09:00	Hoor Shaik	04/01/2022 10:52	Mohammad Ghaffari	2313520
	03/22/2022	03/28/2022 09:00	Hoor Shaik	04/01/2022 11:03	Mohammad Ghaffari	2313522
	03/22/2022	03/28/2022 09:00	Hoor Shaik	04/01/2022 11:13	Mohammad Ghaffari	2313524
	03/22/2022	03/28/2022 09:00	Hoor Shaik	04/01/2022 11:24	Mohammad Ghaffari	2313525

APPENDIX F

Final IDW Manifest



NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address		Generator's Site Address (if different than mailing address) Florida State Fire College 11655 NW Gainesville Rd Ocala, FL 34482			
Generator's Phone:					
6. Transporter 1 Company Name Erwin Remediation, Inc.		U.S. EPA ID Number FLR000223867			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Ecosouth Services 12950-A Highway 43 Axis, AL 36505		U.S. EPA ID Number			
Facility's Phone:					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Hazardous Soil		1	DM	1	
2. Non-Hazardous Groundwater		17	DM	17	
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and governmental regulations.					
Generator's/Offor's Printed/Typed Name As Agent for FDEP under HW4603: Rik Mathias		Signature Rik Mathias		Month Day Year 4 21 22	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of Entry/Exit: Date Leaving U.S.:			
Transporter Signature (for exports only):					
16. Transport Acknowledgement of Receipt of Materials					
Transporter 1 Printed/Typed Name John Rogalski		Signature John Rogalski		Month Day Year 4 21 22	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)		U.S. EPA ID Number			
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)		Month Day Year			
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a					
Printed/Typed Name M. Morrisette		Signature M. Morrisette		Month Day Year 4 21 22	