REPORT

SITE ASSESSMENT REPORT

Fire Academy of the South - FSCJ
2700 Fire Fighter Memorial Drive
Jacksonville, Duval County, Florida
DEP Facility ID Number: ERIC_17235

Submitted to:

Florida Department of Environmental Protection
Site Investigation Section
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Distribution List

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Table of Contents

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

Golder Associates USA Inc. (Golder) has prepared this Site Assessment Report for the Florida Department of Environmental Protection (FDEP) Site Investigation Section (SIS) to document the site assessment activities and evaluate potential sources of per- and polyfluoroalkyl substances (PFAS) impacting soil and groundwater at the Fire Academy of the South – Florida State College at Jacksonville (FSCJ) site (FDEP Facility ID: ERIC_17235). Golder completed the site assessment activities in general accordance with the Site Assessment Work Plan, dated September 2021, and subsequent e-mail and telephone correspondence. This work was conducted under FDEP contract number HW561, task assignment number SA149. Services were performed in accordance with the FDEP-approved task assignment and Chapter 62-780 of the Florida Administrative Code (FAC).

2.0 BACKGROUND INFORMATION

2.1 Site Location and Description

The site is located at 2700 Fire Fighter Memorial Drive in Jacksonville, Duval County, Florida, in Section 29, Township 2 South, and Range 28 East, within the area mapped by the U.S. Geological Survey (USGS) Arlington, Florida, 7.5-minute topographic quadrangle map (Figure 1). The site is located at 30 degrees, 17 minutes, 55 seconds north latitude and 81 degrees, 30 minutes, 36 seconds west longitude.

The site is approximately 136 acres in area and is part of the FSCJ South Campus. The site consists of multiple firefighter training areas, an emergency vehicle driver training area and skid pad, multiple instructional/office buildings, undeveloped wooded areas and wetlands, and a JEA water treatment facility. The firefighter training areas include instructional space, burn pits, burn buildings, gas props, a debris field training area, an aircraft rescue and firefighting simulator, a maritime fire trainer, and storage buildings. Stormwater features include various drainage ditches and three ponds totaling approximately 2.3 acres.

According to the Duval County Property Appraiser website, the site is owned by FSCJ and is identified as “Public College” land use. The site was first developed in 1974 and firefighter training activities have taken place on the site since at least the early 1990s.

The site is accessed via Alden Road to the north. The site is surrounded primarily by residential and commercial properties to the north, residential and municipal park properties to the east, a utility easement followed by public college property to the south, and residential and county schoolboard properties to the west. The site vicinity map is shown on Figure 2. A site map identifying pertinent site features is shown on Figure 3.

2.2 Environmental Setting

2.2.1 Physiography and Topography

The entire east coast of Florida is located within the Atlantic Coastal Plain regional physiographic province. The Atlantic Coastal Plain in Florida is characterized by five distinct topographic divisions. Duval County, located in northeastern Florida, occurs within two of the five topographic divisions. The western portion of Duval County is located in the Central Highlands topographic division. The eastern portion of the county is located in the Coastal Lowlands topographic division, an area of low relief with a series of coastal terraces and scarps.

The site is located within the Coastal Lowlands topographic division, approximately 7 miles west of the Atlantic Ocean. This area is characterized by ancient marine terraces with a series of coastal beach ridges separated by lower-lying swale features. Both the beach ridges and intervening swale features are oriented roughly parallel to the existing Atlantic shoreline, and represent coastal depositional features associated with higher stands of sea level during the geologic past.

The ground surface elevation in the area of the site is approximately 40 feet above mean sea level. The developed portion of the site is located on roughly north-south oriented ridge that slopes to lower-lying areas to the east and west.

2.2.2 Regional Hydrogeology

Four distinct hydrogeologic units can be defined within the stratigraphic units underlying the property, including the surficial aquifer, the secondary artesian aquifer, the upper confining unit, and the Floridan aquifer. The surficial aquifer consists of the Holocene and Pleistocene sediments, as well as the more permeable units of the

undifferentiated Pliocene and Upper Miocene deposits. This unit consists predominantly of sand, extending to a depth of approximately 50 to 70 feet below ground surface (bgs).

The secondary artesian aquifer consists of sand and shell beds and thin, fossiliferous limestone units that occur in the lowermost Pliocene and Upper Miocene deposits. This unit is typically encountered at depths of 80 to 100 feet in the general vicinity of the site and is typically separated from the overlying surficial aquifer by a relatively thin, reduced-permeability sandy clay unit.

Low permeability marl, clay, and dolomitic beds in the undifferentiated Upper Miocene deposits and the Miocene Hawthorn Group serve as the upper confining unit, which is approximately 450 feet thick in the vicinity of the property. This confining unit restricts the vertical movement of water between the overlying surficial and secondary artesian aquifers and the underlying Floridan aquifer.

The Floridan Aquifer in the vicinity of the property consists of the Ocala Group, Avon Park Limestone, and Lake City Limestone of Eocene age, as well as permeable beds of the lower Hawthorn Group that are in hydrologic contact with the rest of the aquifer. This hydrogeologic unit is the major source of water for irrigation, public supply, and industry in northeast Florida. The depth to the Floridan aquifer in the vicinity of the property is approximately 550 feet. JEA's Oakridge supply well group is located in the vicinity of the site and consists of multiple municipal supply wells screened in the Floridan aquifer.

Recharge to the surficial aquifer is principally through rainfall. The secondary artesian aquifer is primarily recharged by infiltration from the overlying surficial aquifer. The Floridan aquifer is recharged in areas where the overlying confining unit is either thin or absent, which occurs in several counties west of Duval County.

2.3 Site History

2.3.1 Operational History

This site is currently occupied by FSCJ, which has operated on the property since approximately 1974. The Fire Academy of the South began operations in its current location in the early 1990s. Prior to the current use, the site was undeveloped, vegetated land from at least 1943 until approximately 1970 when development on the site first began in the form of a water treatment plant in the southwest corner of the parcel.

According to documents reviewed, hands-on fire training associated with FSCJ Fire Science program took place at a facility on Stockton Street near downtown Jacksonville prior to the construction of the facility on the FSCJ campus in the early 1990s. The present-day skid pad has existed in the northern portion of the site since at least 1980; however, the historical use of the skid pad is unknown. The driving course in the northwest portion of the site was active by 1983. Building W1, Building W2, the Instructional Tower, burn pits, gas props, and the Debris Rescue Training Area were constructed and active by 1994. The Maritime Fire Trainer and associated pond were constructed in 2010. The Aircraft Rescue & Fire Fighting Simulator and associated ponds were constructed in 2013.

Activities on the site include training and certification of firefighters and emergency medical technicians, coursework for Fire Science degrees, and recertification burns. According to site personnel, the burn pits are regularly used for firefighter training and recertification burns. Aqueous Film Forming Foam (AFFF) has historically been used on the site, specifically in the area of the burn pits. AFFF is stored in bulk in conex shipping containers to the west of the fire pits and in the general fire training area in wheeled fire extinguisher carts for present-day training activities.

2.3.2 Historical Environmental Assessments

Ellis & Associates, Inc. (E&A) completed a limited soil, sediment, and groundwater assessment in the vicinity of the burn pit area of the site in 2011 and 2012. E&A completed additional groundwater assessment activities, including shallow and deep monitoring well installation and sampling in 2016, 2017, 2018, and 2019 (as ECS Florida, LLC [ECS]). Firefighter training activities within the burn pit area reportedly consisted of producing controlled fires for trainees to extinguish with AFFF (ECS, 2019). Gasoline is used as fuel for the burn pits and propane is used for fuel at the fire props and South Burn Building. After the fires were extinguished, fire pans were drained into an oil-water separator located west of the training area. Any unburned fuel product or AFFF was then pumped out of the oil-water separator and transported offsite for disposal (ECS, 2019). The purpose of the limited assessment was to screen soil, sediment, and groundwater for the presence of PFAS, based on the site's reported usage of fire-retardant materials, such as AFFF and attempt to delineate the extent of the contamination. The results of the investigation indicated that perfluoro-n-octanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) concentrations in soil located near the burn pit area were above FDEP Provisional Soil Cleanup Target Levels (PSCTLs) for leachability. The concentrations were, however, below the PSCTLs for residential direct exposure. In addition, PFOA and PFOS concentrations in groundwater samples collected from shallow and deep monitoring wells were above Provisional Groundwater Target Cleanup Levels (PGCTLs). Well construction details are provided in Table 1. The monitoring well location map is shown on Figure 4.

According to soil boring data collected by E&A, the surficial soil is underlain by approximately 80 feet of interbedded, gray-green, calcareous, silty clay and clayey sand; fine-to-medium grained, well sorted sand; shell; and cream to brown, soft friable limestone (E&A, 2012).

2.3.3 Site Reconnaissance Activities

On June 22 and June 23, 2021, Golder and DEP representatives completed a site reconnaissance with relevant facility personnel from the Fire Academy of the South and FSCJ. During the site reconnaissance, Golder and DEP completed the following site reconnaissance activities:

- Met with the appropriate representatives from the Fire Academy of the South – FSCJ and the FDEP SIS to discuss the proposed scope of work and establish lines of communication for future field activities.
- Discussed operational history, historical PFAS-containing materials storage areas, and the historical use of PFAS-containing materials, including AFFF.
- Walked the site to identify pertinent site features and areas of concern.
- Identified existing monitoring well locations and collected depth-to-groundwater measurements using an electronic water level indicator.
- Located and documented storm water collection features.
- Collected a potable water sample (Potable-1) from a source on the south side of Building 5C to evaluate the potential for use as a PFAS free water source during site assessment activities. Golder shipped the sample to the FDEP Central Laboratory in Tallahassee, Florida for PFAS analysis (DEP SOP: LC001-3).
- Collected two surface water samples: SW-1 (collected from the pond south of the Aircraft Training Area) and SW-2 (collected from the pond northwest of the Debris Field Training Area). Golder shipped the samples to the FDEP Central Laboratory in Tallahassee, Florida for PFAS analysis (DEP SOP: LC001-3).

- Identified an equipment decontamination location and investigation derived waste (IDW) storage area south of the South Burn Building.
- Documented pre-assessment site conditions by taking photographs of relevant site features.
- Documented current storage of AFFF in containers on site.

Based on observations and discussions during site reconnaissance, the following Areas of Concern (AOC) were identified:

- AOC 1: Debris Field Training Area – This area includes the Instructional Tower; a debris rescue training area (concrete, wood, and vehicular debris); and a stormwater collection system (perimeter ditch to the south and west and catch basins within the concrete pad surrounding the Instructional Tower) that discharges into a pond.
- AOC 2: Burn Pit Training Area – This area includes the South Burn Building; a burn pit and fire pan training area; an oil-water separator (OWS); gas props; material storage area; and a stormwater collection system (perimeter ditch to the south and east). The burn pits in the southern portion of AOC 2 are fueled by gasoline supplied by underground pipes coming from an aboveground storage tank (AST) in the fuel storage area located in the southwestern portion of AOC 2. Gas props in the northern portion of AOC 2 and the burn building are fueled by propane from an AST in the fuel storage area via underground pipes. Gasoline can also be pumped into smaller containers from a pump at Building W5 for use in smaller burn pans in the vicinity of the burn pits. Water was observed at the top of the OWS vent pipe and standing above the OWS exposed vault lid, indicating water had overflowed from OWS. Additionally, a sheen was observed in the standing water on top of the OWS vault lid. Several large cracks were observed in the concrete pad surrounding the South Burn Building. This area was also the primary focus area of the E&A and ECS site assessment activities.
- AOC 3: Aircraft Rescue and Training Area – This area includes the aircraft rescue and firefighting simulator; multiple fire pans on the concrete pad surrounding the simulator; a drainage swale around the perimeter of the concrete pad; and multiple stormwater and overflow ponds. Training fires in AOC 3 are fueled by propane via underground pipes from an AST in the northeastern corner of AOC 3. The training area is designed to allow water to drain towards catch basins and a circular trench drain in the center of the training area. A valve allows water used in training to either be directed towards the stormwater pond to the south of the training area or a municipal sanitary sewer line. According to site personnel, the water used during training activities is drained to the stormwater pond and will only be directed to the municipal sanitary sewer line if AFFF is used in training. According to personnel, AFFF has not historically been used for training in AOC 3. However, site personnel reported brief use of AFFF training during liquified natural gas fire training exercises in the grassy area to the southwest of aircraft training area.
- AOC 4: Maritime Fire Training Area – This area includes the maritime fire training simulator and a stormwater collection system (catch basins within the concrete pad surrounding the simulator) that discharges into a pond.

The analytical results from the potable water sample (Potable-1) indicated that PFAS were not detected above laboratory method detection limits. DEP approved the water source for drilling and equipment decontamination water during assessment activities. The PFOS concentrations were above the FDEP Provisional Surface Water Screening Level (PSWSL) of 10 nanograms per liter (ng/L) at surface water sampling locations SW-1 (240 ng/L) and SW-2 (1,200 ng/L). The PFOA concentrations were below the PSWSL of 500 ng/L at location SW-1 and SW-2. Based on the June 2021 groundwater elevation data, the groundwater flow direction in the shallow surficial aquifer appeared to flow in multiple directions towards the existing stormwater collection features (ditches, ponds, etc.).

The groundwater flow direction in the deep surficial aquifer appeared to be towards the southeast. The AOCs are identified on Figure 3.

Golder submitted a Site Assessment Work Plan, dated September 29, 2021, to the FDEP with the purpose of delineating the nature and extent of PFAS in the site soil and groundwater and identifying other potential sources of PFAS based on the historical use and storage of PFAS containing materials including AFFF of the site. The FDEP SIS contracted Golder in November 2021 to implement the Scope of Work with subsequent modifications based on e-mail and telephone correspondence. A summary of the assessment activities is included in the following sections.

3.0 SITE ASSESSMENT ACTIVITIES

Groundwater, surface water, sediment, and soil sampling activities were completed in accordance with FDEP Standard Operating Procedures (SOPs) for Field Activities (DEP SOP-001/01), dated January 2017 (effective April 16, 2018) and FDEP SOPs for Sampling and Analysis of PFAS, dated August 2020. Field equipment and drilling equipment were decontaminated with PFAS-free water upon arrival to the site and between uses at each sampling or well location in accordance with the SOPs for Sampling and Analysis of PFAS. Drilling equipment was decontaminated within a temporary containment pad located near the South Burn Building in AOC 2. Golder did not use any known PFAS-containing materials or equipment during site assessment activities. Field documentation of site assessment activities is provided in Appendix A. A photographic log of site assessment activities is provided in Appendix B.

3.1 Site Access and Utility Clearance

Prior to mobilization, the FDEP SIS obtained site access from the State of Florida (Fire Academy of the South - FSCJ) to complete the scope of work. Based on existing soil and groundwater analytical data and observations made during the site reconnaissance, Golder and the FDEP SIS identified proposed soil sampling locations, vertical profiling locations, shallow and deep monitoring well locations, surface water sampling locations, and an exploratory boring location. Locations were marked with pin flags and/or paint on the ground surface using a handheld GPS unit. Prior to initiating site assessment activities, Golder contacted Sunshine State One Call to identify underground utilities at these locations. In addition, from November 9-10, 2021, Golder contracted GeoTek Services, LLC (GeoTek) to locate shallow subsurface utilities or other buried hazards and to verify locations marked by Sunshine State One Call. Several anomalies, which were not marked by Sunshine State One Call, were identified by GeoTek using ground penetrating radar. Soil boring and well locations located near areas of potential underground conflicts were discussed with the FDEP SIS and adjusted accordingly. No significant changes to proposed sample locations were made based on the presence of underground utilities.

3.2 Soil and Sediment Assessment

Between November 11, 2021, and March 8, 2022, following completion of the utility locations activities, Golder advanced 115 soil borings and collected soil samples at the site. Soil samples were collected from the following locations:

- AOC 1: Debris Field Training Area – 10 locations (DEPSB-1 through DEPSB-10).
- AOC 2: Burn Pit Training Area – 81 locations
  - Gas Props – 27 locations (DEPSB-32 through DEPSB-58) in the gas props training area to the north of the burn building.
  - Burn Pits – 45 locations (DEPSB-66 through DEPSB-110) in the burn pit area to the south of the burn building.
  - Nine locations (DEPSB-59 though DEPSB-65, DEPSB-112, and DEPSB-113) in the paved and grassy areas surrounding the gas props, burn building, and burn pits.
- AOC 3 – Aircraft Training Area: 12 soil borings (DEPSB-20 through DEPSB-31) were advanced in grassy areas around the perimeter of the paved aircraft training area.

- AOC 4 – Maritime Fire Training Area: 10 soil borings (DEPSB-11 through DEPSB-19 and DEPSB-111) were advanced around the perimeter of the Maritime Fire Trainer.
- Emergency Vehicle Driver Training Area: Two soil borings (DEPSB-114 and DEPSB-115) were advanced at shallow monitoring well locations in the driver training area in the northern portion of the site.

In addition, Golder collected 15 sediment samples (SED-1 through SED-15) at the following locations:

- Three sediment samples were collected from the pond (SED-2 and SED-6) and a stormwater drainage ditch (SED-5) located in AOC 1.
- Two sediment samples (SED-9 and SED-10) were collected from drainage ditches in AOC 2.
- Three sediment samples (SED-1, SED-12, and SED-13) were collected from the pond and low-lying drainage areas located in AOC 3.
- Three sediment samples were collected from the pond (SED-7 and SED-8) and a low-lying drainage area (SED-14) located in AOC 4. Sample location SED-8 was sampled twice on separate dates.
- Two sediment samples (SED-3 and SED-4) were collected from the east-west running creek to the south of the powerline easement on the southern boundary of the site.
- One sediment sample (SED-11) was collected in the low-lying, wooded area (wetland) to the east of AOC 2.
- One sediment sample (SED-15) was collected from the pond located in the northwestern corner of the site to the north of the Emergency Vehicle Driver Training Area.

The soil sampling locations are shown on Figure 5, Figure 5A (AOC 1 and Emergency Vehicle Driver Training Area), Figure 5B (AOC 2 North), Figure 5C (AOC 2 South), Figure 5D (AOC 3), and Figure 5E (AOC 4). The sediment sample locations are shown on Figure 6.

At each soil sampling location, Golder used a decontaminated stainless-steel hand auger to collect soil samples from the ground surface to the top of the water table. In general, the water table was encountered between 1 and 4 feet bgs. Golder collected a minimum of two soil samples per location: 0 to 0.5 feet bgs and 0.5 feet bgs to 2 feet bgs (unless the water table was observed less than 2 feet bgs). If the water table was observed at a depth greater than 2 feet bgs, Golder collected a third soil sample between 2 feet bgs and the water table. Golder placed soil from each interval on clear polyethylene sheeting for mixing prior to placement into laboratory-supplied containers. The sediment samples were also collected using a decontaminated stainless-steel hand auger.

Golder prepared the chain-of-custody documentation and placed the soil samples and sediment sample in coolers with ice for transportation to the FDEP Central Laboratory. The FDEP Central Laboratory analyzed the soil and sediment samples for PFAS using DEP SOP: LC-001-3. Due to the presence of a sheen on top of the OWS in AOC 2, samples from soil borings DEPSB-107 through DEPSB-110 were additionally analyzed for semi-volatile organic compounds (SVOCs) using EPA 8270E, volatile organic compounds (VOCs) using EPA 8260D, and total recoverable petroleum hydrocarbons (TRPH) using the FL-PRO method.

In general, the soils and sediment encountered during soil sampling activities were dark brown and gray fine sand and fine sand-organics mixtures extending from the ground surface to approximately 4 feet bgs. A semi-permeable hardpan layer of varying thickness was observed across the site, generally beginning in the top 4 feet bgs and extending intermittently to approximately 20 feet bgs. Groundwater was observed between one and four feet bgs

in boreholes across the site. Groundwater elevation appeared to be dependent on the soil boring proximity to stormwater features and low-lying areas. Soil boring logs and field documentation are provided in Appendix A.

3.3 Surface Water Assessment

Between June 23, 2021 and March 8, 2022, Golder collected 12 surface water samples at the following locations:

- Three surface water samples were collected from the pond (SW-2 and SW-6) and a stormwater drainage ditch (SW-5) located in AOC 1.
- Two surface water samples (SW-9 and SW-10) were collected from drainage ditches in AOC 2.
- One surface water sample (SW-1) was collected from the pond located in AOC 3.
- Two surface water samples (SW-7 and SW-8) were collected from the pond in AOC 4.
- Two surface water samples (SW-3 and SW-4) were collected from the east-west running creek to the south of the powerline easement on the southern boundary of the site.
- One surface water sample (SW-11) was collected in the low-lying, wooded area (wetland) to the east of AOC 2.
- One surface water sample (SW-12) was collected from the pond located in the northwestern corner of the site and north of the Emergency Vehicle Driver Training Area.

The surface water sample locations are shown on Figure 7.

Surface water samples were collected using a low-flow peristatic pump. The intake end of the tubing was affixed to a telescoping pole and placed in an area free of algae and other debris. The approximate sample depths were 6 inches below the top of the water. Three equipment volumes were purged at each sampling location before collecting field parameters, which included temperature, pH, specific conductance, dissolved oxygen, and turbidity. Field parameters were recorded on surface water sampling data sheets, which along with the equipment calibration records are also included in Appendix A.

Golder prepared the chain-of-custody documentation and placed the surface water samples in coolers with ice for transportation to the FDEP Central Laboratory. The FDEP Central Laboratory analyzed the samples for PFAS using DEP SOP: LC-001-3.

3.4 Exploratory Lithologic Boring

On March 14, 2022, a mini-sonic drill rig was used to advance an exploratory soil boring (Exploratory Boring) under the direct supervision of a Golder geologist to determine continuous lithologic profiles, which were used to identify potential aquitards, determine the thickness of the any identified low permeability clay zones and any zones of higher permeability. The exploratory boring was advanced in the grassy area in the northern portion of AOC 2, south of Building W2. The target depth of the exploratory boring was 100 feet bgs or the bottom of the first high-permeability zone within the Hawthorn Formation. Based on lithologic observations made during advancement and correspondence with the FDEP, the exploratory boring was terminated at 70 feet bgs. The exploratory boring location is shown on Figure 4.

In general, fine to silty sands and interbedded layers of dark brown silty sand with organics (hardpan) were encountered from the surface to approximately 34 feet bgs. Fine to silty sand containing approximately 35 percent shell hash (up to two inches) was observed from approximately 34 to 48 feet bgs. A low permeability clay

(95 percent) and shell hash (5 percent) unit was observed from approximately 48 to 52.5 feet bgs followed by silty sand with shell hash to approximately 55 feet bgs. Gray limestone was observed from 55 to 55.5 feet bgs. Low permeability clays and clay, silty sand, shell mixtures were observed from 55.5 to 70 feet bgs. The exploratory boring log is provided Appendix A.

3.5 Groundwater Assessment

3.5.1 Shallow Monitoring Well Installation

Between December 14, 2021, and March 7, 2022, Golder oversaw the use of direct-push technology (DPT) rigs to install 10 shallow zone monitoring wells (DEPMW-1S through DEPMW-10S) in the surficial aquifer at the locations shown on Figure 4.

Once the utilities were marked at ground surface, each well location was cleared for the presence of buried utilities using a hand auger to a minimum depth of 5 feet bgs. The monitoring wells were constructed of 0.75-inch diameter, Schedule 40 PVC casing with pre-packed 0.01-inch diameter slot size screen and 0.75-inch diameter, Schedule 40 PVC riser. Each screen was 10 feet in length and installed to a total depth of approximately 12 feet bgs. The well risers and screens were connected via flush-threaded joints. The annular space between the borehole wall and each well screen was completed with a pre-packed 20/30 grade silica sand filter pack from the bottom of the borehole to the top of the well screen. A 20/30 grade silica sand filter pack was then placed a minimum of 1 foot above the top of the well screen. A 6-inch thick, fine (30/65) grade silica sand seal was placed above the sand filter pack and the remainder of the annular space was completed with a Portland Cement Type II grout seal.

The monitoring wells were finished with flush-mounted surface completion and an 8-inch diameter bolt-down steel cover. The risers were capped with water-tight expandable locking plugs. A 2-foot by 2-foot concrete pad was constructed around the well to secure the flush-mounted vault, which was sloped away from the well to prevent surface water infiltration.

To remove fine grained particles in the filter pack and adhered to the borehole wall, and to establish a good hydraulic connection with the aquifer, each monitoring well was developed until the purged water remains visibly clear and free of suspended particulate matter. Monitoring well construction details are summarized in Table 1. Field documentation, including shallow monitoring well installation logs are provided in Appendix A.

3.5.2 Vertical Groundwater Profiling

On December 13, 2021, Golder and FDEP oversaw the use of a DPT rig equipped with GeoProbe K6300 flow control module, GeoProbe FI6000 data acquisition instrument, and hydraulic profiling tool (HPT) to assess hydraulic conductivity (K) at locations in AOC 1 (DEPMW-1S location) and AOC 2 (DEPMW-2S location). The HPT was able to measure K values continuously to approximately 65 feet bgs at each location. After reviewing the K values measured by the HPT with the FDEP site manager, vertical groundwater profiling sample intervals were adjusted from the proposed scope of work to collect groundwater samples from intervals with higher K values to a depth of 52 feet bgs.

On December 14, 2021, and on March 7 and 8, 2022, Golder oversaw the use of a DPT rig to complete vertical groundwater profiling. Vertical profiling points were advanced at the following four locations:

- AOC 1: Vertical profiling location VP-1 was located in the western portion of the debris field training area, adjacent to monitoring wells DEPMW-8S and DEPMW-1D.

- AOC 2: Vertical profiling location VP-2 was located in the northern portion of AOC 2 in a grassy area between the gas props and Building W2, next to monitoring wells DEPMW-2S, DEPMW-2D, and the exploratory soil boring.
- AOC 3: Vertical profiling location VP-3 was located in the grassy area off the southeastern edge of the aircraft rescue and fire training simulator pad, next to monitoring wells DEPMW-3S and DEPMW-3D.
- AOC 4: Vertical profiling location VP-4 was located east of the maritime fire training simulator and next to monitoring wells DEPMW-4S and DEPMW-4D.

The vertical profiling locations are shown on Figure 5.

Once the utilities were marked at ground surface, each profiling location was cleared for the presence of buried utilities using a hand auger to a minimum depth of 5 feet bgs. Golder collected groundwater samples using DPT tooling (4-foot screens) at three depth intervals that were predetermined based on HPT-derived K values and correspondence with the FDEP. The samples were collected from the following depth intervals: 20 to 24 feet bgs, 36 to 40 feet bgs, and 48 to 52 feet bgs. The samples were analyzed by the FDEP Central Laboratory for PFAS using DEP SOP: LC-001-3. The drilling contractor decontaminated the drilling rods, DPT screens, hand augers, and other relevant equipment upon arrival at the site and after each sample was collected. Field documentation, including the vertical profile groundwater sampling logs and HPT logs are provided in Appendix A.

3.5.3 Deep Monitoring Well Installation

On March 15 and 16, 2022, Golder oversaw the use of a mini-sonic drill rig to install four deep zone monitoring wells (DEPMW-1D through DEPMW-4D) at the locations shown on Figure 4. Each well location was cleared for the presence of buried utilities using a hand auger to a minimum depth of 5 feet bgs. The monitoring wells were constructed of 2-inch diameter, Schedule 40 PVC casing with a 0.01-inch diameter slot size screen and 2-inch diameter, Schedule 40 PVC riser. Each screen was 10 feet in length and installed to a total depth of approximately 50 feet bgs. The well risers and screens were connected via flush-threaded joints. A 20/30 grade silica sand filter pack was then placed to two feet above the top of the well screen. A 1-foot thick, fine (30/65) grade silica sand seal was placed above the sand filter pack and the remainder of the annular space was completed with a Portland Cement Type II grout seal.

Deep well DEPMW-2D was constructed in the exploratory boring borehole. The borehole collapsed from its total depth of 70 feet bgs to 55 feet bgs. The borehole was backfilled with hydrated bentonite pellets from 55 to 49 feet bgs, followed by 20/30 grade silica sand to 47 feet bgs. Water from the drill rig was used to pressurize the bentonite in the borehole, which compressed and formed a solid surface seal at 49 feet bgs, and the well was constructed as described above.

The monitoring wells were finished with flush-mounted surface completion and an 8-inch diameter bolt-down steel cover. The risers were capped with water-tight expandable locking plugs. A 2-foot by 2-foot concrete pad was constructed around the well to secure the flush-mounted vault, which was sloped away from the well to prevent surface water infiltration.

To remove fine grained particles in the filter pack and adhered to the borehole wall, and to establish a good hydraulic connection with the aquifer, each monitoring well was developed until the purged water remains visibly clear and free of suspended particulate matter. Monitoring well construction details are summarized in Table 1. Field documentation, including deep monitoring well installation logs are provided in Appendix A.

3.6 Groundwater Sampling

Golder mobilized to the site during the week of April 4, 2022, and collected groundwater samples from the 14 newly installed FDEP monitoring wells, 21 wells previously installed by E&A/ECS, and 4 JEA municipal supply wells (39 wells total). Golder could not collect a sample from monitoring well FSCJ-TMW-19S due to debris covering the well at the time of the sampling event. The wells sampled in the shallow zone of the surficial aquifer were as follows: DEPMW-1S through DEPMW-10S, FSCJ-TMW-1S, FSCJ-TMW-2SR, FSCJ-TMW-3S, FSCJ-TMW-4SR, FSCJ-TMW-6S, FSCJ-TMW-7SR, FSCJ-TMW-8S through FSCJ-TMW-18S, and FSCJ-TMW-20S (28 wells). The wells sampled in the deep zone of the surficial aquifer were as follows: DEPMW-1D through DEPMW-4D, FSCJ-TMW-2D, FSCJ-TMW-4DR, and FSCJ-TMW-6D (seven wells). The following JEA municipal supply wells (screened in the Floridan Aquifer with total depths from 440 to 1,000 feet, based on information gathered and presented in the September 2021 Site Assessment Work Plan) were sampled: Well 1, Well 5, Well 6, and Well 7 (four wells of seven wells in JEA's Oakridge supply well group).

Prior to groundwater sampling, the water level depth was measured at each well to be sampled to determine groundwater elevations across the site. The water level depth could not be collected at the JEA supply wells. Prior to collecting the groundwater sample, each well was purged and field parameters including temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential were monitored. JEA personnel reportedly pumped the supply wells for at least two hours prior to sampling. Water was allowed to purge though dedicated sample ports for five minutes, a single set of field parameters was recorded, then the laboratory sample was collected. Purge volumes and field parameters were recorded on field data sheets, and the field monitoring equipment was calibrated in accordance with the manufacturer's recommended procedures. Relevant sampling equipment was decontaminated after each sample was collected.

Golder prepared the chain-of-custody documentation and placed the samples in coolers with ice for transportation to the FDEP Central Laboratory. The FDEP Central Laboratory analyzed the samples for PFAS using DEP SOP LC-001-3. Samples from wells DEPMW-2S, DEPMW-8S, FSCJ-TMW-2SR, FSCJ-TMW-3S, FSCJ-TMW-11S, FSCJ-TMW-12S, FSCJ-TMW-17S, FSCJ-TMW-18S, and FSCJ-TMW-2D were additionally analyzed for SVOCs using EPA 8270E, VOCs using EPA 8260D, and TRPH using EPA FL-PRO. Field documentation is included in Appendix A.

3.7 Well Survey

The wells listed in the previous section were surveyed by Banks & Banks Consulting, Inc. (Banks), a Florida-licensed professional land surveyor, for top-of-well casing elevations (+/- 0.01 feet accuracy) and well spatial arrangement (+/- 0.1 feet accuracy). The horizontal datum was recorded in the North American Datum (NAD) 1983, Florida East Zone State Plane Coordinate system. The vertical datum was recorded in North American Vertical Datum of 1988 (NAVD 88). The survey results are summarized in Tables 1. The Banks report is included in Appendix C.

3.8 Investigation Derived Waste

Soil cuttings, equipment decontamination water, and well development and purge water from site assessment activities were placed in 55-gallon drums, appropriately labeled as IDW, and temporarily staged on the pavement to the south of the South Burn Building in AOC 2. Golder used the soil and groundwater analytical results for waste characterization purposes.

Clark Environmental Inc. (Clark) transported and disposed of four drums containing IDW liquids on February 1, 2022. Clark transported and disposed of four drums containing IDW soil cuttings and 17 drums containing IDW liquids (decontamination, well development, and groundwater sampling purge water) on May 23, 2022. The drum contents were initially transported to Clark's facility at 755 North Prairie Industrial Parkway in Mulberry, Florida for stabilization. The contents were then disposed at the Republic Services Cedar Trails facility in Bartow, Florida. The non-hazardous waste manifests are included in Appendix D.

4.0 ANALYTICAL RESULTS

4.1 Soil and Sediment

The FDEP has derived leachability-based PSCTLs of 2 micrograms per kilogram (µg/kg) for PFOA and 7 µg/kg for PFOS concentrations. At this time, the FDEP has directed Golder to use the PSCTLs for both soil and sediment.

The reported PFOA concentrations in soil were above the leachability-based PSCTL of 2 µg/kg in 5 of the 115 sample locations (DEPSB-4, DEPSB-48, DEPSB-51, DEPSB-54, and DEPSB-74). The exceedances ranged from 2.8 µg/kg to 7.1 µg/kg. One PFOA concentration exceedance was from a sample collected in AOC 1 and four were from samples collected in AOC 2.

The reported PFOS concentrations in soil were above the leachability-based PSCTL of 7 µg/kg in 72 of the 115 sample locations. A brief summary of the PFOS results is as follows:

- The exceedances in AOC 1 (Debris Field Training Area – seven locations) ranged from 8.5 µg/kg to 500 µg/kg.
- The exceedances in the northern portion of AOC 2 (Burn Pit Training Area – 27 locations) ranged from 7.6 µg/kg to 1,400 µg/kg. The PFOS concentration of 1,400 µg/kg in the soil sample collected from the 0.5 to 2.0 feet bgs depth interval at location DEPSB-48, which was located near the gas props, was also above the PSCTL for residential direct exposure. This was the only soil sample collected during site assessment activities with a PFOS concentration above the PSCTL for residential direct exposure.
- The exceedances in the southern portion of AOC 2 (Burn Pit Training Area – 35 locations) ranged from 7.6 µg/kg to 390 µg/kg.
- The exceedances in AOC 3 (Aircraft Training Area – three locations) ranged from 9.4 µg/kg to 11 µg/kg.
- The PFOS concentrations in AOC 4 (Maritime Fire Training Area) and the Emergency Driver Training Area were below the leachability-based PSCTL.

The SVOC, VOC, and TRPH concentrations in the soil samples collected from borings DEPSB-107 through DEPSB-110, which were located next to the oil-water separator in AOC 2, were below their respective SCTLs and/or laboratory method detection limits.

The reported PFOA concentrations were above the leachability-based PSCTL of 2 µg/kg at three of the 15 sediment sample locations (SED-5, SED-10, and SED-11) and ranged from 4.1 µg/kg to 15 µg/kg. The reported PFOS concentrations were above the leachability-based PSCTL of 7 µg/kg at eight of the 15 sediment sample locations (SED-2, SED-5, SED-6, SED-9, SED-10, SED-11, SED-14, and SED-15) and ranged from 11 µg/kg to 870 µg/kg. The highest PFOS concentrations were observed in the drainage ditch bordering AOC 1 and AOC 2 and the low-lying, wooded area (wetlands) to the east of AOC 2.

A summary of the detected PFAS in soil is provided in Table 2. A summary of the VOC constituents and TRPH in soil is provided in Table 3. A summary of SVOC constituents in soil is provided in Table 4. A summary of the detected PFAS in sediment is provided in Table 5. The soil analytical results are shown on Figure 5A (AOC 1 and Emergency Vehicle Driver Training Area), Figure 5B (AOC 2 North), Figure 5C (AOC 2 South), Figure 5D (AOC 3), and Figure 5E (AOC 4). The sediment analytical results are shown on Figure 6. The laboratory analytical reports are included in Appendix E.

4.2 Surface Water

The FDEP has derived PSWSLs of 500 ng/L for PFOA and 10 ng/L for PFOS concentrations. These screening levels are protective of human health for both freshwater and estuarine finfish and shellfish species. Golder observed site personnel fishing in the onsite ponds during site assessment activities. It is unknown whether the fish are kept for human consumption.

The reported PFOA concentrations were above the PSWSL of 500 ng/L at SW-9 (530 ng/L) and SW-10 (820 ng/L). The reported PFOS concentrations were above the PSWSL of 10 ng/L at each of the 12 surface water sampling locations and ranged from 12 ng/L to 14,000 ng/L. The highest PFOS concentrations (greater than 1,000 ng/L) were observed in the drainage ditch bordering AOC 1 and AOC 2, the stormwater pond in AOC 1, and the low-lying, wooded area (wetland) to the east of AOC 2.

The FDEP has also derived PSWSLs for PFOA and PFOS that are protective of ecology in both freshwater and marine environments. The reported PFOA and PFOS concentrations associated with this study were below the PSWSLs for freshwater. There are no marine environments at the site.

A summary of the detected PFAS in surface water is provided in Table 6. The PFOA and PFOS results from surface water samples are shown on Figure 7. The laboratory analytical reports are included in Appendix E.

4.3 Groundwater

4.3.1 Groundwater Elevations

On April 4, 2022, the depth-to-groundwater was measured and recorded at each well location using an electronic water level indicator. The surficial aquifer was subdivided into two zones, the shallow zone of the surficial aquifer and the deep zone surficial aquifer. The shallow zone consists of wells screened to a total depth of 11 to 12 feet bgs. The deep zone consists of wells screened to a total depth of approximately 50 or 60 feet bgs. Monitoring well FSCJ-TMW-19S was covered with debris at the time of the sampling event and could not be used for groundwater elevations. The depth-to-groundwater measurements and calculated groundwater elevations are summarized in Table 7. Due to the construction of the JEA supply wells, their depth-to-groundwater measurements could not be collected. The potentiometric map of the shallow zone of the surficial aquifer is shown on Figure 8. The potentiometric map of the deep zone of the surficial aquifer is shown on Figure 9.

The groundwater gradient in the shallow surficial aquifer generally flows away from developed portions of the site and towards the perimeter ditches, stormwater ponds, and adjacent low-lying swales to the east and west of the site. Multiple stormwater features exist on the site to direct stormwater and water used during training towards stormwater ponds and low-lying areas on site and towards the low-lying swales to the east and west of the site.

Based on the April 2022 groundwater elevation data, the groundwater gradient in the deep surficial aquifer is generally towards the southeast. Variability due to surface conditions observed in the shallow surficial aquifer is not observed the deep surficial aquifer.

4.3.2 Vertical Profiling

Golder collected groundwater samples from four vertical profiling locations at the following depth intervals: 20 to 24 feet bgs, 36 to 40 feet bgs, and 48 to 52 feet bgs. A brief summary of the results is presented below:

- AOC 1 (Debris Field Training Area, VP-1): The PFOA concentrations were above the PGCTL of 70 ng/L at the 20 to 24 feet bgs interval (330 ng/L) and the 36 to 40 feet bgs interval (1,400 ng/L). The PFOS

concentrations were above the PGCTL of 70 ng/L at each depth interval, with the highest concentration at the 20 to 24 feet bgs depth interval (12,000 ng/L). The combined PFOA and PFOS concentrations were above the PGCTL of 70 ng/L at each interval. The highest combined concentration was at the 20 to 24 feet bgs interval (12,330 ng/L); the lowest combined concentration was at the 48 to 52 feet bgs interval (344 ng/L).

- AOC 2 (Burn Pit Training Area, VP-2): The PFOA concentration was above the PGCTL at the 20 to 24 feet bgs depth interval (370 ng/L). The PFOS concentration was also above the PGCTL at the 20 to 24 feet bgs depth interval (5,300 ng/L). The combined PFOA and PFOS concentrations were above the PGCTL of 70 ng/L at the 20 to 24 feet bgs interval (5,670 ng/L). The PFOA, PFOS, and combined PFOA and PFOS concentrations were below the PGCTL at the two deeper depth intervals.
- AOC 3 (Aircraft Rescue and Training Area, VP-3): The PFOA, PFOS, and combined PFOA and PFOS concentrations were below their PGCTLs at each depth interval.
- AOC 4 (Maritime Fire Training Area, VP-4): The PFOA concentrations were below the PGCTL at each depth interval. The PFOS and combined PFOA and PFOS concentrations were below their PGCTLs in the 36 to 40 feet bgs interval. The PFOS concentrations were above the PGCTL at the 20 to 24 feet bgs interval (300 ng/L) and the 48 to 52 feet bgs interval (740 ng/L). The combined PFOA and PFOS concentrations were above the PGCTL at the 20 to 24 feet bgs interval (323 ng/L) and the 48 to 52 feet bgs interval (827 ng/L).
- In general, the highest PFAS concentrations were observed in AOC 1 and AOC 2. PFAS concentrations generally decreased with depth; however, at VP-4 in AOC 4, the highest PFOA and PFOS concentrations were observed at the deepest depth interval (48 to 52 feet bgs). High relative concentrations of short-chain (C6 or less) carboxylates, including perfluorohexanoic acid (PFHxA), perfluoropentanoic acid (PFPeA), and perfluorobutanoic acid (PFBA); short to long-chain sulfonates, including perfluorohexanesulfonic acid (PFHxS), perfluoropentanesulfonic acid (PFPeS), and perfluorobutanesulfonic acid (PFBS); and the short-chain fluorotelomer 6:2 fluorotelomer sulfonate (6:2 FTS) were also reported in samples with higher PFOA and PFOS concentrations. These PFAS were also reported in samples where PFOA and PFOS were below the PGCTL, including the VP-3 samples in AOC 3.

A summary of the detected PFAS at each of the vertical profiling locations is provided in Table 8. The PFOA and PFOS results from each vertical profiling location are shown on Figure 10. The laboratory analytical reports are included in Appendix E.

4.3.3 Monitoring Well and Municipal Supply Well Analytical Results

A summary of the groundwater field parameters is provided in Table 9. A summary of the detected PFAS in shallow and deep zone groundwater is provided in Table 10. A summary of the VOC, SVOC, and TRPH results are provided in Table 11. The PFOA and PFOS results from the shallow zone of the surficial aquifer are shown on Figure 11. The PFOA and PFOS results from the deep zone of the surficial aquifer are shown on Figure 12. The PFOA and PFOS results from the JEA supply wells are shown on Figure 13. The laboratory analytical reports are included in Appendix E.

4.3.3.1 Shallow Zone of the Surficial Aquifer

Golder collected groundwater samples from shallow zone monitoring wells DEPMW-1S through DEPMW-10S, FSCJ-TMW-1S, FSCJ-TMW-2SR, FSCJ-TMW-3S, FSCJ-TMW-4SR, FSCJ-TMW-6S, FSCJ-TMW-7SR, FSCJ-TMW-8S through FSCJ-TMW-18S, and FSCJ-TMW-20S (28 wells). The results are summarized as follows:

- The reported PFOA concentrations were above the PGCTL of 70 ng/L at 18 of the 28 well locations. The PFOA concentrations ranged from 82 ng/L (DEPMW-3S) to 2,500 ng/L (DEPMW-6S) in these 18 locations.
- The reported PFOS concentrations were above the PGCTL of 70 ng/L at 21 of the 28 well locations The PFOS concentrations ranged from 82 ng/L (FSCJ-TMW-10S) to 72,000 ng/L (DEPMW-6S) at these 21 locations.
- The reported combined PFOA/PFOS concentrations were above the PGCTL of 70 ng/L at 25 of the 28 well locations. The combined PFOA/PFOS concentrations ranged from 117 ng/L (FSCJ-TMW-6S) to 74,500 ng/L (DEPMW-6S) at these 25 locations.
- High relative concentrations of short-chain (C6 or less) carboxylates, including PFHxA, PFPeA, and PFBA; short to long-chain sulfonates, including PFHxS, PFPeS, and PFBS; and the short-chain 6:2 FTS were reported in samples with higher PFOA and PFOS concentrations. In addition, perfluoro-1-hexane sulfonamide (FHxSA) was also reported at high relative concentrations, particularly in the vicinity of the burn pits in AOC 2.
- PFOA and PFOS concentrations are present in shallow groundwater at concentrations above the PGCTLs across the site. The horizontal extent has not been well defined in any direction. The combined PFOA/PFOS concentrations were consistently the highest in AOC 1 and AOC 2; however, the highest concentration (74,500 ng/L) was observed in the sample collected from monitoring well DEPMW-6S, which is located in the southern portion of AOC 3. The combined PFOA/PFOS concentrations from wells in this area are generally two orders of magnitude less than the concentration observed at monitoring well DEPMW-6S, indicating a potentially isolated release. The soil analytical results collected in AOC 3, however, do not appear to correlate with the high groundwater concentration observed at monitoring well DEPMW-6S.

4.3.3.2 Deep Zone of the Surficial Aquifer

Golder collected groundwater samples from deep zone monitoring wells DEPMW-1D through DEPMW-4D, FSCJ-TMW-2D, FSCJ-TMW-4DR, and FSCJ-TMW-6D (seven wells). The results are summarized as follows:

- The reported PFOA concentration was above the PGCTL of 70 ng/L at monitoring well DEPMW-1D (1,300 ng/L). The reported PFOA concentrations at the other locations were below the PGCTL.
- The reported PFOS concentration was above the PGCTL of 70 ng/L at monitoring well DEPMW-1D (5,900 ng/L). The reported PFOS concentrations at the other locations were below the PGCTL.
- The reported combined PFOA/PFOS concentrations were above the PGCTL of 70 ng/L at monitoring wells DEPMW-1D (7,200 ng/L) and FSCJ-TMW-2D (72 ng/L). The reported combined PFO/PFOS concentrations were below the PGCTL at the other locations.
- As discussed in Section 4.3.2, the highest PFOA and PFOS concentrations were observed at the deepest depth interval (48 to 52 feet bgs) at vertical profile location VP-4 in AOC 4; however, the PFOA and PFOS concentrations in deep monitoring well DEPMW-4D (installed at same location) were below PGCTLs.

- With the exception of deep monitoring well DEPMW-1D (AOC 1), the PFAS concentrations in deep zone groundwater were observed to be significantly less than those observed in the shallow zone groundwater. This observation is generally consistent with the results of the groundwater vertical profiling (see Section 4.3.2).
- While the PFOS concentration was slightly lower, the PFOA concentration at deep monitoring well DEPMW-1D was higher than the PFOA concentration at its corresponding shallow monitoring well DEPMW-8S. The PFOA and PFOS concentrations in soil were above the leachability-based PSCTLs in this area.

4.3.3.3 JEA Municipal Supply Wells

Golder collected groundwater samples from four JEA municipal supply wells associated with the Oakridge wellfield (Well 1, Well 5, Well 6, and Well 7). The wells are screened in the Floridan Aquifer with total depths from ranging from 440 to 1,000 feet bgs. No PFAS were detected at concentrations above laboratory method detection limits in the JEA municipal supply wells.

4.3.4 AFFF Analytical Results

Golder observed the presence of various AFFF products onsite during the June 2021 site reconnaissance and subsequent field activities. These products included Aer-O-Lite™ 3% AFFF, Chemguard 3% x 6% Alcohol Resistant AFFF, and Ansulite 3% x 3% AFFF (Ansulite). Golder collected a sample of the Ansulite product on December 15, 2021 and submitted the sample to the FDEP Central Laboratory for PFAS analysis. As shown in Table 12, the following PFAS were detected at concentrations above the laboratory method detection limit: PFBA (210 ng/L), PFPeA (250 ng/L), PFHxA (2,800 ng/L), PFOA (25 ng/L), PFOS (240 ng/L), and 6:2 FTS (7,700 ng/L).

4.4 Data Evaluation

4.4.1 Primary Source Areas

The results of the site assessment activities indicate that there are likely multiple source areas located at the site. The highest PFAS concentrations in soil, sediment, surface water, and groundwater were generally observed in AOC 1 (Debris Field Training Area) and AOC 2 (Burn Pit Training Area), where fire training activities have been conducted since the early 1990s. The high concentrations of PFOS in each media suggest the historical use of Legacy PFOS AFFF in AOC 1 and AOC 2. Legacy PFOS AFFF was manufactured from the late 1960s until 2002 and contained “PFOS and various precursors that could break down in the environment to PFOS and short-chain sulfonate PFAS, such as PFHxS” (ITRC, 2020). In addition, older formulations contained PFOA and fluorinated precursors, which could break down to PFOA and short-chain carboxylate PFAS (ITRC, 2020).

The presence of PFOA, 8:2 fluorotelomer sulfonate (8:2 FTS), 6:2 FTS, and PFHxA also suggests some historical use of Legacy Fluorotelomer AFFF, which was manufactured from the 1970s until 2016 and contains both short chain and replacement long chain fluorotelomers that can degrade to PFOA (ITRC, 2020). High relative concentrations of short-chain (C6 or less) carboxylates in groundwater, including PFHxA, PFPeA, and PFBA; short to long-chain sulfonates, including PFHxS, PFPeS, and PFBS; and the short-chain 6:2 FTS were reported in samples with higher PFOA and PFOS concentrations.

In addition, FHxSA was also reported at high relative concentrations (e.g., FSCJ-TMW-2SR and FSCJ-TMW-3S), particularly in the vicinity of the burn pits in AOC 2. A summary of the percent relative abundance of PFAS constituents in groundwater is shown in Table 12. FHxSA is a PFAS that has also been reported in older formulations of AFFF, alongside with PFOS, PFHxS and longer-chain PFAS compounds (Eurofins, 2021).

The soil analytical results indicate PFOA and PFOS concentrations are above leachability-based PSCTLs in vadose zone soil within AOC 1 and AOC 2. The soil analytical results from samples collected north of AOC 1 and AOC 2 (DEPSB-10, DEPSB-59, DEPSB-114, and DEPSB-115) and from south of AOC 2 (DEPSB-31) were below PSCTLs; however, additional samples will likely need to be collected south, east, and west of AOC 1 and east and west of AOC 2, if feasible, to determine the horizontal extent of the impacts. Golder observed that the areas east and west of AOC 1 and AOC 2 generally consist of low-lying, wooded areas (wetlands).

The groundwater analytical results indicate PFOA and PFOS concentrations are present in shallow groundwater at concentrations above the PGCTLs across the site, with the exception of upgradient well MW-10S. The downgradient horizontal extent of PFOA and PFOS impacts above the PGCTLs has not been delineated in shallow groundwater. The combined PFOA/PFOS concentrations were consistently the highest in AOC 1 (shallow and deep zone) and AOC 2 (shallow zone); however, the highest concentration was observed in the sample collected from monitoring well DEPMW-6S, which is located in the southern portion of AOC 3 (see next section for discussion). Golder recommends installing additional shallow zone monitoring wells in accessible areas along the site boundary.

The sediment and surface water analytical results suggest that PFAS present in the run-off associated with fire training activities in AOC 1 and AOC 2 have entered the stormwater collection system (perimeter ditch to the south, east, and west and various catch basins) that discharges into the pond in AOC 1. The sediment and surface water analytical results east of AOC 2 (SED-11 and SW-11) and south of AOC 1 (SED-14) indicate that the impacts are not limited to the collection system. Golder is unaware if any flow in the perimeter ditch is diverted into the low-lying, wooded areas (wetlands) surrounding AOC 1 and AOC 2. Golder recommends delineating the sediment and surface water impacts at the site.

Given the high concentrations of PFOA and PFOS in groundwater within AOC 1 and AOC 2, Golder recommends that the FDEP consider the effectiveness and feasibility of an Interim Source Removal (ISR) to address soil with concentrations above leachability-based PSCTLs.

4.4.2 Secondary Source Areas

The Maritime Fire Trainer and associated pond in AOC 4 were constructed in 2010. The Aircraft Rescue & Fire Fighting Simulator and associated ponds in AOC 3 were constructed in 2013. The soil analytical results from samples collected in these two areas were relatively low. PFOA concentrations in soil were below the PSCTL in both areas. PFOS concentrations were slightly above the PSCTL in AOC 3 (maximum concentration of 11 µg/kg) and below the PSCTL in AOC 4. The PFOA and PFOS concentrations in groundwater generally decrease in AOC 3 and AOC 4, when compared to concentrations observed in AOC 1 and AOC 2, with the exception of the results at shallow zone monitoring wells DEPMW-4S, DEPMW-6S, FSCJ-TMW-4SR, and FSCJ-TMW-8S. Monitoring wells DEPMW-6S, FSCJ-TMW-4SR, and FSCJ-TMW-8S are generally downgradient from and likely impacted by source areas located on AOC 1 and AOC 2. The combined PFOA/PFOS concentrations from wells in this area are generally two orders of magnitude less than the concentration observed at monitoring well DEPMW-6S, indicating a potentially isolated release near DEPMW-6S. Notably, the 6:2 FTS concentration at monitoring well DEPMW-6S was the highest reported during assessment activities at 140,000 ng/L. As discussed above, the soil analytical results from AOC 3 and AOC 4 do not appear to correlate with the high groundwater concentrations observed in DEPMW-6S. Golder recommends collecting an additional groundwater sample from DEPMW-6S to confirm the results. If confirmed, Golder recommends additional soil sampling in vicinity of DEPMW-6S.

The PFOS concentration observed at monitoring well DEPMW-9S (3,600 ng/L) suggests an additional source area may be present near the skid pad and north of AOC 1 and AOC 2. Golder recommends additional assessment activities in the vicinity of the skid pad.

4.4.3 PFAS Radar Plots

Golder also prepared radar plots showing short and long-chain PFAS concentrations in each AOC to allow for an effective evaluation of PFAS signatures in samples collected from shallow and deep monitoring wells and surface water across the site. The radar plots are included in Appendix F. Golder also included the radar plot for the Ansulite sample on each chart to evaluate that product as a potential source of the PFAS contamination. Overall, the PFAS signatures in shallow groundwater and surface water are similar across the site. Although the 6:2 FTS and PFHxA concentrations in groundwater and surface water at the site are generally within the signature of the Ansulite sample, the higher concentrations of PFOS, PFHxS, FHxSA, and 8:2 FTS suggest that the primary source of PFAS contamination is from releases of older AFFF formulations.

The PFAS signature in the deep zone groundwater (see DEPMW-1D) appears to be unique. The concentrations of short-chain sulfonates (PFBS and PFPeS), as well as PFHxS and FBSA are much higher than those observed in shallow zone groundwater. Also, as discussed in Section 4.3.3.2, while the PFOS concentration was slightly lower, the PFOA concentration at deep monitoring well DEPMW-1D was higher than the PFOA concentration at its corresponding shallow monitoring well DEPMW-8S. The results suggest the potential for an additional upgradient source that has yet to be identified, or that the results could be indicative of a similar source with more precursors that have degraded into short-chain sulfonates. Therefore, Golder recommends installing additional deep zone monitoring wells in accessible areas north, west, and southwest of monitoring well DEPMW-1D.

5.0 QUALITY ASSURANCE/QUALITY CONTROL

Sampling was completed in accordance with applicable FDEP SOPs, project quality assurance goals were met, and the data obtained are reliable for their intended purpose. The laboratory performed method blank analyses, and accuracy and precision values were met. In addition, the following quality assurance/quality control (QA/QC) samples were collected during field activities:

- Soil and sediment sampling: 14 equipment blanks (EQB-HA-1 through EQB-HA-14) and one field reagent blank (FRB-SB-85).
- Surface water sampling: three duplicate samples (DUP-SW-4, DUP-SW-10, and DUP-SW-12), one equipment blank (EQB-PP-1), and one field reagent blank (FRB-SW-8).
- Vertical profiling and shallow monitor well installation: one duplicate sample (DUP-VP-2-20-24), two equipment blanks (EQB-Screenpoint-1 and EQB-Screenpoint-2), and two field reagent blanks (FRB-VP-1 and FRB-DEPMW-10S).
- Groundwater sampling: three duplicate samples (DUP-FSCJ-TMW-4SR, DUP-FSCJ-TMW-13S, and DUP-FSCJ-TMW-18S), two equipment blanks (EB-PP-1 and EB-PP-2), one field reagent blank (FRB-FSCJ-TMW-8S), and one trip blank.

Duplicate samples were collected immediately after collection of the primary field sample. The equipment blanks were collected by pumping (peristaltic pump) laboratory-supplied PFAS-free water through silicon and HDPE tubing into laboratory-supplied sample containers, or by pouring PFAS-free water over the sampling equipment (i.e., bucket augers, DPT drill rods, and DPT screen tooling) and collecting the water into the sample containers. Field reagent blanks consisted of PFAS-free water containerized in HDPE sample containers filled at the laboratory prior to beginning field activities. The field reagent blank sample containers were opened during the collection of a sample, and the laboratory-supplied PFAS-free water was poured directly into the sample containers and resealed. The trip blanks contained PFAS-free water provided by the laboratory and were kept in the coolers during sampling activities.

With the exception of the trip blank, each of the QA/QC samples collected were analyzed by the FDEP Central Laboratory for PFAS using DEP SOP: LC-001-3. The trip blanks were analyzed for VOCs by EPA Method 8260D. Equipment blank sample EQB-HA-13 was additionally analyzed for SVOCs using EPA 8270E, VOCs using EPA Method 8260D, and TRPH using the FL-PRO method. The analytical results for the duplicate samples were similar to the primary field sample results. No target analytes were detected in the QA/QC samples, with the exception of low-level PFAS in sample EQB-HA-8 (no PFOA or PFOS detected).

6.0 CONCLUSIONS AND RECOMMENDATIONS

In June 2021, Golder and FDEP representatives completed a site reconnaissance with relevant facility personnel from the Fire Academy of the South and FSCJ. Based on observations and discussions during site reconnaissance, Golder and the FDEP identified four areas of concern: AOC 1 (Debris Field Training Area); AOC 2 (Burn Pit Training Area); AOC 3 (Aircraft Rescue and Training Area); and AOC 4 (Maritime Fire Training Area).

Between June 2021 and March 2022, Golder collected soil samples from 115 soil borings (DEPSB-1 through DEPSB-115); 15 sediment samples (SED-1 through SED-15); 12 surface water samples (SW-1 through SW-12); and groundwater samples from three depth intervals at four vertical profiling locations (VP-1 through VP-4). Between December 2021 and March 2022, Golder oversaw the installation of 10 new shallow monitoring wells (DEPMW-1S through DEPMW-10S) and the advancement of an exploratory soil boring to 70 feet bgs to log lithology and identify zones of low and high permeability. In March 2022, Golder oversaw the installation of four new deep monitoring wells (DEPMW-1D through DEPMW-4D). In April 2022, Golder collected groundwater samples in from the new and existing monitoring wells, as well as four JEA municipal supply wells.

The results of the investigation indicated the following:

- There are likely multiple source areas located at the site. The highest PFAS concentrations in soil, sediment, surface water, and groundwater were generally observed in AOC 1 (Debris Field Training Area) and AOC 2 (Burn Pit Training Area), where fire training activities have been conducted since the early 1990s. The high concentrations of PFOS in each media suggest the historical use of Legacy PFOS AFFF in AOC 1 and AOC 2. The presence of PFOA, 8:2 FTS, 6:2 FTS, and PFHxA also suggests some historical use of Legacy Fluorotelomer AFFF.
- The soil analytical results indicate PFOA and PFOS concentrations above leachability-based PSCTLs in vadose zone soil within AOC 1 and AOC 2. The soil analytical results from samples collected north of AOC 1 and AOC 2 (DEPSB-10, DEPSB-59, DEPSB-114, and DEPSB-115) and from south of AOC 2 (DEPSB-31) were below PSCTLs.
- The soil analytical results from samples collected in AOC 3 and AOC 4 were relatively low. PFOA concentrations in soil were below the PSCTL in both areas. PFOS concentrations were slightly above the PSCTL in AOC 3 (maximum concentration of 11 µg/kg) and below the PSCTL in AOC 4.
- The sediment and surface water analytical results suggest that PFAS present in the run-off associated with fire training activities in AOC 1 and AOC 2 have entered the stormwater collection system (perimeter ditch to the south, east, and west and various catch basins) that discharges into the pond in AOC 1. The sediment and surface water analytical results east of AOC 2 (SED-11 and SW-11) and south of AOC 1 (SED-14) indicate that the impacts are not limited to the collection system. Golder is unaware if any flow in the perimeter ditch is diverted into the low-lying, wooded areas (wetlands) surrounding AOC 1 and AOC 2.
- The groundwater analytical results indicate PFOA and PFOS concentrations are present in shallow groundwater at concentrations above the PGCTLs across the site, with the exception of upgradient well MW-10S. The downgradient horizontal extent of PFOA and PFOS impacts above the PGCTLs has not been delineated in shallow groundwater. The combined PFOA/PFOS concentrations were consistently the highest in AOC 1 (shallow and deep zone) and AOC 2 (shallow zone); however, the highest concentration was observed in the sample collected from monitoring well DEPMW-6S, which is located in the southern portion of AOC 3.

- High relative concentrations of short-chain (C6 or less) carboxylates in groundwater, including PFHxA, PFPeA, and PFBA; short to long-chain sulfonates, including PFHxS, PFPeS, and PFBS; and the short-chain 6:2 FTS were reported in samples with higher PFOA and PFOS concentrations. In addition, FHxSA was also reported at high relative concentrations (e.g., FSCJ-TMW-2SR and FSCJ-TMW-3S), particularly in the vicinity of the burn pits in AOC 2.
- With the exception of deep monitoring well DEPMW-1D (AOC 1), the PFAS concentrations in deep zone groundwater were observed to be significantly less than those observed in the shallow zone groundwater.
- No PFAS were detected at concentrations above laboratory method detection limits in the JEA municipal supply wells.
- Overall, the PFAS signatures in shallow groundwater and surface water are similar across the site. Although the 6:2 FTS and PFHxA concentrations in groundwater and surface water at the site are generally within the signature of the Ansulite sample, the higher concentrations of PFOS, PFHxS, FHxSA, and 8:2 FTS suggest that the primary source of PFAS contamination is from releases of older AFFF formulations.
- The PFAS signature in the deep zone groundwater (see DEPMW-1D) appears to be unique. The concentrations of short-chain sulfonates (PFBS and PFPeS), as well as PFHxS and FBSA are much higher than those observed in shallow zone groundwater. While the PFOS concentration was slightly lower, the PFOA concentration at deep monitoring well DEPMW-1D was higher than the PFOA concentration at its corresponding shallow monitoring well DEPMW-8S. The results suggest the potential for an additional upgradient source that has yet to be identified, or that the results could be indicative of a similar source with more precursors that have degraded into short-chain sulfonates.
- Golder recommends installing additional shallow zone monitoring wells in accessible areas along the site boundary. Golder also recommends installing additional deep zone monitoring wells in accessible areas north, west, and southwest of monitoring well DEPMW-1D.
- Golder recommends collecting additional soil samples east and west of AOC 1 and AOC 2, if feasible, to determine the horizontal extent of the impacts. Golder observed that the areas east and west of AOC 1 and AOC 2 generally consist of low-lying, wooded areas (wetlands).
- Golder recommends delineating the sediment and surface water impacts at the site.
- The soil analytical results from AOC 3 and AOC 4 do not appear to correlate with the high groundwater concentrations observed in the area, particularly monitoring well DEPMW-6S. Golder recommends collecting an additional groundwater sample from DEPMW-6S to confirm the results. If confirmed, Golder recommends additional soil sampling in vicinity of DEPMW-6S.
- The PFOS concentration observed at monitoring well DEPMW-9S (3,600 ng/L) suggests an additional source area may be present near the skid pad and north of AOC 1 and AOC 2. Golder recommends additional assessment activities in the vicinity of the skid pad.
- Given the high concentrations of PFOA and PFOS in groundwater within AOC 1 and AOC 2, Golder recommends that the FDEP consider the effectiveness and feasibility of an ISR to address soil contamination present at concentrations above leachability-based PSCTLs.

Signature Page

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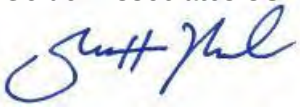

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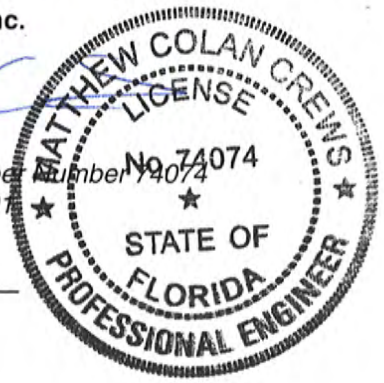
SCN/MCC/as

https://golderassociates.sharepoint.com/sites/148086/Project Files/6 Deliverables/SA149 - Site Assessment/Site Assessment Report/SA149 - Fire Academy of the South Site Assessment Report.docx

7.0 PROFESSIONAL CERTIFICATION

This report has been completed under the responsible charge of a Florida Licensed Professional Engineer employed by Golder Associates USA Inc. in accordance with the requirements of Chapter 62-780 of the Florida Administrative Code. Our professional services have been performed using the degree of care and skill ordinarily exercised under similar circumstances by registered professionals practicing in the field of geology. All drawings, reports, data tables, or other geologic information contained in this report have been prepared or approved by the undersigned professional geologist, or a subordinate employee under their direction, for delivery to the public record within the State of Florida. This certification of geologic work applies only to the original document and does not pertain to copies of this document which can be changed by the entity with whom such document(s) are filed. No other representation, expressed or implied, is made as to the professional advice in this report.

Golder Associates USA Inc.



Matthew C. Crews, PE
Florida Professional Engineer Number 74074
Authorization Number 35291

8/31/22
Date

8.0 REFERENCES

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Interstate Technology Regulatory Council. 2020. “Aqueous Film-Forming Foam (AFFF)” https://pfas-1.itrcweb.org/fact-sheets/.

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Well ID	Northing[A]	Easting[A]	Total Depth	Screen Interval	Well Diameter	Drilling Method	TOC Elevation[A]	Date Installed
	(NAD 83)	(NAD 83)	(feet)	(feet bgs)	(inches)	--	(feet NAVD)	--
Shallow Zone Wells								
FSCJ-TMW-1S	2168394.650	495663.691	12	7-12	2	NA	38.58	2011
FSCJ-TMW-2S*	NA	NA	12	7-12	2	NA	NA	2011
FSCJ-TMW-2SR	2168398.354	495547.505	11	1-11	1.25	NA	38.75	2017
FSCJ-TMW-3S	2168389.793	495516.031	12	7-12	2	NA	37.93	2011
FSCJ-TMW-4S*	NA	NA	11	1-11	2	NA	NA	2012
FSCJ-TMW-4SR	2168249.702	495672.281	11	1-11	2	NA	39.23	2013
FSCJ-TMW-5S	NA	NA	11	1-11	2	NA	NA	2012
FSCJ-TMW-5SR	2168219.343	495546.497	12	2-12	1.25	NA	38.31	2017
FSCJ-TMW-6S	2168229.572	495434.342	11	1-11	1.25	NA	37.77	2012
FSCJ-TMW-7S*	NA	NA	11	1-11	1.25	NA	NA	2012
FSCJ-TMW-7SR	2168349.899	495636.682	12	2-12	1.25	NA	38.12	2017
FSCJ-TMW-8S	2168342.531	495542.776	11	1-11	1.25	NA	38.57	2012
FSCJ-TMW-9S	2168320.173	495254.570	11	1-11	1.25	NA	38.95	2017
FSCJ-TMW-10S	2168305.167	495776.389	12	2-12	1.25	NA	38.49	2017
FSCJ-TMW-11S	2168472.292	495592.764	12	2-12	1.25	NA	38.36	2017
FSCJ-TMW-12S	2168536.771	495618.656	11	1-11	1.25	NA	37.71	3/28/18
FSCJ-TMW-13S	2168368.776	495188.008	11	1-11	1.25	NA	36.40	3/28/18
FSCJ-TMW-14S	2168194.933	495313.755	11	1-11	1.25	NA	38.00	3/28/18
FSCJ-TMW-15S	2168118.930	495534.780	11	1-11	1.5	NA	39.44	3/28/18
FSCJ-TMW-16S	2168637.330	495626.122	12	2-12	1.5	NA	38.20	5/7/19
FSCJ-TMW-17S	2168622.969	495461.232	11	1-11	1.5	NA	38.63	5/7/19
FSCJ-TMW-18S	2168429.904	495298.501	11	1-11	1.5	NA	37.78	5/7/19
FSCJ-TMW-19S	2168395.930	495092.060	12	2-12	1.5	NA	36.47	5/7/19
FSCJ-TMW-20S	2168225.786	495835.942	12	2-12	1.5	NA	38.41	5/7/19
DEPMW-1S	2168767.502	495042.009	12	2-12	0.75	DPT	38.28	12/15/21
DEPMW-2S	2168798.383	495565.012	12	2-12	0.75	DPT	39.52	12/14/21
DEPMW-3S	2167972.303	495833.488	12	2-12	0.75	DPT	38.86	12/14/21
DEPMW-4S	2168057.443	495274.951	12	2-12	0.75	DPT	38.51	12/15/21
DEPMW-5S	2168795.492	495221.792	12	2-12	0.75	DPT	38.81	12/15/21
DEPMW-6S	2167879.581	495524.912	12	2-12	0.75	DPT	38.13	12/14/21
DEPMW-7S	2167799.062	495848.428	12	2-12	0.75	DPT	38.36	12/14/21
DEPMW-8S	2168610.302	494982.938	12	2-12	0.75	DPT	38.09	12/14/21
DEPMW-9S	2169450.928	495487.603	12	2-12	0.75	DPT	37.14	3/7/22
DEPMW-10S	2169188.497	494985.373	12	2-12	0.75	DPT	42.44	3/7/22

TABLE 1
WELL CONSTRUCTION DETAILS

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Well ID	Northing[A]	Easting[A]	Total Depth	Screen Interval	Well Diameter	Drilling Method	TOC Elevation[A]	Date Installed
	(NAD 83)	(NAD 83)	(feet)	(feet bgs)	(inches)	--	(feet NAVD)	--
Deep Zone Wells								
FSCJ-TMW-2D	2168393.005	495532.004	59	49-59	2	NA	38.54	2012
FSCJ-TMW-4D*	NA	NA	60	50-60	2	NA	NA	2012
FSCJ-TMW-4DR	2168244.101	495669.378	60	55-60	2	NA	39.69	2013
FSCJ-TMW-6D	2168224.077	495433.008	60	50-60	2	NA	37.66	2012
DEPMW-1D	2168616.472	494982.815	50	40-50	2	Sonic	38.46	3/15/22
DEPMW-2D	2168793.185	495563.965	49	39-49	2	Sonic	39.36	3/15/22
DEPMW-3D	2167966.875	495829.687	49	39-49	2	Sonic	38.82	3/16/22
DEPMW-4D	2168055.359	495269.807	49.5	39.5-49.5	2	Sonic	38.59	3/16/22

Notes:
[A]Banks & Banks Consulting, Inc. survey dated June, 2022 (NAD 83 State Plane Florida East)
*Monitoring well has been abandoned
bgs - below ground surface
NA - Not available
DPT - direct push technology
NAD 83 - North American Datum 1983, Florida East State Plane Coordinate System
NAVD - North American Vertical Datum 1988
PVC - polyvinyl chloride
TOC - top of casing

TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPSB-1	SB-1-0.5	11/15/21	**0.27 I**	**19**	0.26 U	2.1 U	0.26 U	0.51 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.32 I**	0.51 U	0.13 U	0.51 U	0.26 U	**0.36 I**	**0.27 I**	**2.9**	**0.93 I**	0.13 U	**0.35 I**	**0.29 I**	**0.83 I**	0.26 U	0.26 U	0.26 U	0.26 U
	SB-1-2.0	11/15/21	**0.54 I**	**49**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	**0.56**	**0.15 I**	**0.48 I**	0.52 U	**0.39 I**	0.52 U	0.26 U	**0.52 I**	**0.30 I**	**6.6**	**1.1**	**0.29 I**	0.26 U	**0.68**	**0.39 I**	0.26 U	0.26 U	**0.77 I**	0.26 U
DEPSB-2	SB-2-0.5	11/15/21	**0.49 I**	**41**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	**0.14 I**	0.11 U	**0.17 I**	0.45 U	0.11 U	**0.47 I**	0.22 U	**0.37 I**	**0.35 I**	**5.1**	**0.61 I**	**0.27 I**	**0.71 I**	**0.28 I**	**0.33 I**	0.22 U	0.22 U	**2.6**	0.22 U
	SB-2-2.0	11/15/21	**0.57 I**	**67**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	**0.14 I**	**0.37 I**	0.12 U	**0.17 I**	0.48 U	0.12 U	0.48 U	0.24 U	**0.45 I**	**0.38 I**	**4.7**	**1.0**	0.12 U	**1.9**	**0.23 I**	**0.71 I**	0.24 U	0.24 U	0.24 U	0.24 U
DEPSB-3	SB-3-0.5	11/15/21	0.26 U	**34**	0.26 U	2.0 U	0.26 U	0.51 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.51 U	0.13 U	**0.76 I**	0.26 U	0.13 U	0.26 U	**1.6**	0.26 U	**0.24 I**	**0.36 I**	0.13 U	0.26 U	0.26 U	0.26 U	**0.46 I**	0.26 U
	SB-3-2.0	11/15/21	**0.41 I**	**61**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	**0.36 I**	**0.27 I**	**2.0**	**0.29 I**	0.12 U	**0.54 I**	0.12 U	**0.42 I**	0.24 U	0.24 U	0.24 U	0.24 U
DEPSB-4	SB-4-0.5	11/15/21	**2.8**	**500**	0.27 U	2.1 U	**19**	0.53 U	0.13 U	0.13 U	**5.2**	**52**	**1.5**	**0.46 I**	0.53 U	**0.75**	**36**	**2.9**	**1.2**	**1.1**	**13**	**1.3**	**3.5**	0.27 U	**0.85**	**1.1**	**0.49 I**	**43**	**730**	0.27 U
	SB-4-1.5	11/15/21	**1.0**	**160**	0.24 U	1.9 U	**2.7**	0.48 U	0.12 U	0.12 U	**0.58**	**27**	**0.13 I**	**0.27 I**	0.48 U	0.12 U	**11**	0.24 U	**0.57**	**0.50 I**	**4.4**	**0.53 I**	**1.0**	**21**	**0.24 I**	**0.34 I**	0.24 U	**1.2**	**100**	0.24 U
DEPSB-5	SB-5-0.5	11/15/21	0.28 U	**9.3**	0.28 U	2.2 U	0.28 U	0.56 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.56 U	**0.16 I**	0.56 U	0.28 U	0.14 U	**0.30 I**	**1.2**	**0.49 I**	**0.21 I**	0.28 U	0.14 U	**0.52 I**	0.28 U	0.28 U	**1.1 I**	0.28 U
	SB-5-1.0	11/15/21	0.23 U	**8.4**	0.23 U	1.8 U	0.23 U	0.46 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.46 U	0.12 U	0.46 U	0.23 U	0.12 U	0.23 U	**0.35 I**	0.23 U	**0.12 I**	**0.25 I**	0.12 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
DEPSB-6	SB-6-0.5	11/15/21	**0.52 I**	**8.5**	0.25 U	2.0 U	0.25 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	**0.15 I**	**0.75 I**	**0.50 I**	0.12 U	**0.38 I**	**0.41 I**	**0.34 I**	0.12 U	**0.47 I**	0.12 U	**0.53 I**	0.25 U	0.25 U	**1.4**	0.25 U
	SB-6-1.0	11/15/21	0.22 U	**2.0**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	0.45 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
DEPSB-7	SB-7-0.5	11/15/21	0.23 U	**1.4**	0.23 U	1.9 U	0.23 U	0.46 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.46 U	0.12 U	0.46 U	0.23 U	0.12 U	0.23 U	**0.27 I**	0.23 U	0.12 U	0.23 U	0.12 U	0.23 U	0.23 U	0.23 U	**0.45 I**	0.23 U
	SB-7-1.0	11/15/21	**0.55 I**	**2.8**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	0.12 U	**0.45 I**	**0.64**	0.24 U	0.12 U	**0.29 I**	0.12 U	**0.30 I**	0.24 U	0.24 U	0.24 U	0.24 U
DEPSB-8	SB-8-0.5	11/15/21	0.24 U	**1.9**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	**0.14 I**	0.12 U	0.12 U	0.48 U	**0.46 I**	**0.53 I**	**0.25 I**	0.12 U	0.24 U	**0.32 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	**1.5**	**0.42 I**
	SB-8-1.0	11/15/21	0.24 U	**0.99**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	**0.86 I**	0.24 U	0.12 U	0.24 U	**0.28 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	**0.55 I**	0.24 U
DEPSB-9	SB-9-0.5	11/15/21	**1.1**	**4.3**	0.24 U	1.9 U	**0.44 I**	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.20 I**	0.12 U	0.48 U	**0.27 I**	**2.3**	**3.3**	0.12 U	**1.0**	**0.71**	**0.49 I**	0.12 U	**0.93 I**	0.12 U	**0.43 I**	**0.88 I**	**11**	**8.8**	0.24 U
	SB-9-1.0	11/15/21	**0.92 I**	**32**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	**0.30 I**	**0.14 I**	**0.13 I**	0.48 U	0.12 U	**2.5**	0.24 U	**0.41 I**	**0.56 I**	**3.0**	**0.55 I**	**0.13 I**	**0.96 I**	**0.21 I**	**0.36 I**	0.24 U	**0.34 I**	**2.1**	0.24 U
DEPSB-10	SB-10-0.5	11/15/21	0.20 U	**1.4**	0.20 U	1.6 U	0.20 U	0.40 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.40 U	**0.14 I**	0.40 U	**0.79 I**	0.10 U	0.20 U	**0.22 I**	**0.22 I**	0.10 U	0.20 U	0.10 U	**0.21 I**	0.20 U	0.27 U	**0.63 I**	0.20 U
	SB-10-1.0	11/15/21	0.25 U	**0.51 I**	0.25 U	2.0 U	0.25 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	0.12 U	0.49 U	0.25 U	0.12 U	0.25 U	**0.15 I**	0.25 U	0.12 U	0.25 U	0.12 U	0.25 U	0.25 U	0.25 U	**0.56 I**	0.25 U
DEPSB-11	SB-11-0.5	11/15/21	0.23 U	**3.5**	0.23 U	1.9 U	0.23 U	0.47 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.47 U	0.12 U	0.47 U	0.23 U	0.12 U	0.23 U	0.12 U	**0.32 I**	0.12 U	0.23 U	0.12 U	**0.48 I**	0.23 U	0.23 U	**0.24 I**	0.23 U
	SB-11-1.0	11/15/21	0.25 U	**1.2**	0.25 U	2.0 U	0.25 U	0.51 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.51 U	0.13 U	0.51 U	0.25 U	0.13 U	0.25 U	0.13 U	0.25 U	0.13 U	0.25 U	0.13 U	**0.27 I**	0.25 U	0.25 U	0.25 U	0.25 U
DEPSB-12	SB-12-0.5	11/15/21	**0.55 I**	0.26 U	0.26 U	2.0 U	0.26 U	0.51 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.51 U	0.13 U	0.51 U	0.26 U	0.13 U	**0.62 I**	0.13 U	**0.41 I**	0.13 U	0.26 U	0.13 U	**0.45 I**	0.26 U	0.26 U	0.26 U	0.26 U
	SB-12-1.0	11/15/21	**1.2**	0.26 U	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.52 U	0.13 U	0.52 U	0.26 U	0.13 U	**0.88 I**	**0.15 I**	**0.42 I**	0.13 U	0.26 U	0.13 U	**0.54 I**	0.26 U	0.26 U	0.26 U	0.26 U
DEPSB-13	SB-13-0.5	11/15/21	0.20 U	**1.2**	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.41 U	0.10 U	0.41 U	0.20 U	0.10 U	0.20 U	**0.10 I**	**0.36 I**	0.10 U	0.20 U	0.10 U	**0.62 I**	0.20 U	0.20 U	0.20 U	0.20 U
	SB-13-1.25	11/15/21	0.22 U	0.22 U	0.22 U	1.8 U	0.22 U	0.44 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.44 U	0.11 U	0.44 U	0.22 U	0.11 U	**0.31 I**	**0.31 I**	**0.85 I**	0.11 U	0.22 U	0.11 U	**1.2**	0.22 U	0.22 U	0.22 U	0.22 U
DEPSB-14	SB-14-0.5	11/15/21	0.23 U	**0.65 I**	0.23 U	1.8 U	0.23 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	0.45 U	0.23 U	0.11 U	0.23 U	0.11 U	0.23 U	0.11 U	0.23 U	0.11 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
	SB-14-2.0	11/15/21	0.24 U	0.24 U	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
DEPSB-15	SB-15-0.5	11/15/21	0.22 U	**0.35 I**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	0.45 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	**0.26 I**	0.22 U	0.22 U	0.22 U	0.22 U
	SB-15-2.0	11/15/21	0.22 U	**0.68 I**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	0.45 U	0.22 U	0.11 U	0.22 U	**0.13 I**	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
DEPSB-16	SB-16-0.5	11/15/21	0.22 U	**0.44 I**	0.22 U	1.7 U	0.22 U	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.43 U	0.11 U	0.43 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	**0.30 I**	0.22 U	0.22 U	0.22 U	0.22 U
	SB-16-1.0	11/15/21	0.21 U	**0.64 I**	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	0.42 U	0.21 U	0.11 U	0.21 U	0.11 U	**0.36 I**	0.11 U	0.21 U	0.11 U	**0.55 I**	0.21 U	0.21 U	0.21 U	0.21 U
DEPSB-17	SB-17-0.5	11/15/21	0.24 U	**1.8**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	0.12 U	0.24 U	**0.13 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	SB-17-2.0	11/15/21	0.23 U	**0.78 I**	0.23 U	1.9 U	0.23 U	0.47 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.47 U	0.12 U	0.47 U	0.23 U	0.12 U	0.23 U	**0.12 I**	**0.29 I**	0.12 U	0.23 U	0.12 U	**0.51 I**	0.23 U	0.23 U	0.23 U	0.23 U
DEPSB-18	SB-18-0.5	11/15/21	0.23 U	**2.6**	0.23 U	1.8 U	0.23 U	0.46 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.46 U	0.11 U	0.46 U	0.23 U	0.11 U	0.23 U	**0.21 I**	**0.35 I**	0.11 U	0.23 U	0.11 U	**0.67 I**	0.23 U	0.23 U	0.23 U	0.23 U
	SB-18-2.0	11/15/21	0.24 U	**1.7**	0.24 U	1.9 U	0.24 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	0.12 U	0.49 U	0.24 U	0.12 U	0.24 U	**0.35 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
DEPSB-19	SB-19-0.5	11/15/21	**0.37 I**	**0.87 I**	0.29 U	2.3 U	0.29 U	0.58 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.58 U	0.14 U	0.58 U	0.29 U	0.14 U	**0.33 I**	**0.40 I**	**0.43 I**	0.14 U	0.29 U	0.14 U	**0.61 I**	0.29 U	0.29 U	**0.47 I**	0.29 U
DEPSB-20	SB-20-0.5	11/16/21	**0.33 I**	**0.78 I**	0.28 U	2.2 U	0.28 U	0.56 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.56 U	0.14 U	0.56 U	0.28 U	0.14 U	0.28 U	**0.29 I**	**0.31 I**	0.14 U	0.28 U	0.14 U	**0.57 I**	0.28 U	0.28 U	0.28 U	0.28 U
	SB-20-1.5	11/16/21	**0.30 I**	**5.1**	0.27 U	2.2 U	**2.2**	0.54 U	0.13 U	0.13 U	0.13 U	**0.19 I**	0.13 U	0.13 U	0.54 U	0.13 U	0.54 U	0.27 U	0.13 U	0.27 U	**0.27 I**	**0.43 I**	0.13 U	0.27 U	0.13 U	**0.78 I**	0.27 U	0.27 U	0.27 U	0.27 U
DEPSB-21	SB-21-0.5	11/16/21	**1.0**	**2.0**	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**0.15 I**	**0.55 I**	0.11 U	**0.52 I**	0.21 U	0.11 U	**0.63 I**	**0.75**	**0.66 I**	0.11 U	**0.29 I**	0.11 U	**1.1**	0.21 U	0.21 U	**0.33 I**	0.21 U
	SB-21-2.0	11/16/21	**0.54 I**	**1.1**	0.23 U	1.8 U	0.23 U	0.46 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.46 U	0.11 U	0.46 U	0.23 U	0.11 U	**0.30 I**	**0.69**	**0.47 I**	0.11 U	0.23 U	0.11 U	**0.33 I**	0.23 U	0.23 U	**0.27 I**	0.23 U
DEPSB-22	SB-22-0.5	11/16/21	**0.28 I**	**0.91 I**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.14 I**	**0.53 I**	0.13 U	0.52 U	0.26 U	0.13 U	0.26 U	**0.37 I**	**0.40 I**	0.13 U	0.26 U	0.13 U	**1.2**	0.26 U	0.26 U	0.26 U	0.26 U
	SB-22-2.0	11/16/21	0.25 U	**0.76 I**	0.25 U	2.0 U	0.25 U	0.51 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.51 U	0.13 U	0.51 U	0.25 U	0.13 U	0.25 U	**0.35 I**	**1.0 I**	0.13 U	0.25 U	0.13 U	**1.2**	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPSB-23	SB-23-0.5	11/16/21	0.24 U	**1.4**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	**0.79 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	SB-23-2.0	11/16/21	0.29 U	**4.8**	0.29 U	2.3 U	0.29 U	0.58 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.58 U	0.14 U	**0.70 I**	0.29 U	0.14 U	**0.29 I**	**0.58**	**1.2**	0.14 U	**0.32 I**	0.14 U	**0.31 I**	0.29 U	**0.79 I**	**0.90 I**	0.29 U
DEPSB-24	SB-24-0.5	11/16/21	**0.49 I**	**1.2**	0.23 U	1.8 U	0.23 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**0.12 I**	**0.78 I**	0.11 U	**0.54 I**	**0.23 I**	0.11 U	**0.37 I**	0.11 U	**0.52 I**	0.11 U	**0.23 I**	0.11 U	**1.6**	0.23 U	0.23 U	**0.43 I**	0.23 U
	SB-24-2.0	11/16/21	**0.43 I**	**0.47 I**	0.21 U	1.7 U	0.21 U	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**0.11 I**	**1.2 I**	0.11 U	0.43 U	0.21 U	0.11 U	**1.1**	**0.16 I**	**1.9**	0.11 U	0.21 U	0.11 U	**3.3**	0.21 U	0.21 U	0.21 U	0.21 U
DEPSB-25	SB-25-0.5	11/16/21	**0.35 I**	**2.3**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	0.12 U	**0.26 I**	**0.24 I**	**0.56 I**	0.12 U	**0.28 I**	0.12 U	**0.84 I**	0.24 U	0.24 U	0.24 U	0.24 U
	SB-25-1.5	11/16/21	0.26 U	**0.41 I**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.53 U	0.13 U	0.53 U	0.26 U	0.13 U	0.26 U	0.13 U	0.26 U	0.13 U	0.26 U	0.13 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
DEPSB-26	SB-26-0.5	11/16/21	**0.48 I**	**2.5**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.52 U	0.13 U	**0.63 I**	**0.72 I**	0.13 U	**0.27 I**	**0.22 I**	0.26 U	0.13 U	**0.31 I**	0.13 U	**0.31 I**	0.26 U	0.26 U	**0.54 I**	0.26 U
	SB-26-1.5	11/16/21	0.25 U	**0.47 I**	0.25 U	2.0 U	0.25 U	0.50 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.50 U	0.13 U	0.50 U	0.25 U	0.13 U	0.25 U	0.13 U	0.25 U	0.13 U	0.25 U	0.13 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
DEPSB-27	SB-27-0.5	11/16/21	**0.67 I**	**11**	0.23 U	1.9 U	0.23 U	0.47 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.48 I**	0.12 U	**1.9**	**1.3**	0.12 U	**0.55 I**	**0.17 I**	**0.61 I**	0.12 U	**0.83 I**	0.12 U	**0.96**	**0.36 I**	0.23 U	**1.2**	0.23 U
	SB-27-1.5	11/16/21	**0.32 I**	**9.4**	0.25 U	2.0 U	0.25 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	0.12 U	**0.65 I**	0.25 U	0.12 U	0.25 U	**0.14 I**	**0.30 I**	0.12 U	**0.56 I**	0.12 U	**0.46 I**	0.25 U	0.25 U	**0.40 I**	0.25 U
DEPSB-28	SB-28-0.5	11/16/21	**0.58 I**	**4.6**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	**0.77 I**	0.22 U	0.11 U	0.22 U	**0.60**	**0.33 I**	0.11 U	**0.22 I**	0.11 U	**0.45 I**	0.22 U	**1.3**	**1.2**	0.22 U
	SB-28-2.0	11/16/21	**0.72 I**	**10**	0.25 U	2.0 U	0.25 U	0.50 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.50 U	0.12 U	**0.78 I**	0.25 U	0.12 U	**0.26 I**	**0.89**	0.25 U	0.12 U	**0.49 I**	0.12 U	**0.29 I**	0.25 U	**1.1**	**0.88 I**	0.25 U
DEPSB-29	SB-29-0.5	11/16/21	**0.21 I**	**0.71 I**	0.21 U	1.7 U	0.21 U	0.42 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.42 U	0.11 U	**0.54 I**	**0.21 I**	0.11 U	0.21 U	0.11 U	**0.23 I**	0.11 U	**0.22 I**	0.11 U	**0.33 I**	0.21 U	0.21 U	**0.99**	0.21 U
	SB-29-2.0	11/16/21	**0.92**	**1.9**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**0.50 I**	0.11 U	0.45 U	0.22 U	0.11 U	**0.75 I**	**0.28 I**	**0.96**	0.11 U	**0.57 I**	0.11 U	**1.2**	0.22 U	0.22 U	**0.39 I**	0.22 U
DEPSB-30	SB-30-0.5	11/16/21	**1.1**	**10**	0.27 U	2.1 U	0.27 U	0.54 U	0.13 U	0.13 U	0.13 U	**0.48 I**	0.13 U	0.13 U	**0.77 I**	0.13 U	**2.5**	**1.1**	0.13 U	**1.3**	**1.5**	**0.99 I**	0.13 U	**1.4**	0.13 U	**1.5**	0.27 U	**0.36 I**	**2.9**	0.27 U
	SB-30-1.0	11/16/21	**0.31 I**	**3.5**	0.25 U	2.0 U	0.25 U	0.50 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.50 U	0.13 U	**0.66 I**	0.25 U	0.13 U	0.25 U	**0.36 I**	0.25 U	**0.13 U**	**0.47 I**	0.13 U	**0.33 I**	0.25 U	0.25 U	**0.53 I**	0.25 U
DEPSB-31	SB-31-0.5	11/16/21	**0.37 I**	**2.5**	0.20 U	1.6 U	0.20 U	0.41 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	**0.46 I**	**0.10 I**	**0.65 I**	**0.31 I**	0.10 U	**0.39 I**	**0.49**	**0.38 I**	0.10 U	**0.23 I**	0.10 U	**0.72 I**	0.20 U	**3.4**	**2.1**	0.20 U
	SB-31-2.0	11/16/21	**0.34 I**	**1.9**	0.21 U	1.7 U	0.21 U	0.43 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.43 U	0.11 U	**0.93 I**	**0.28 I**	0.11 U	0.21 U	**0.21 I**	0.21 U	0.11 U	**0.29 I**	0.11 U	**0.34 I**	0.21 U	0.21 U	**0.79 I**	0.21 U
DEPSB-32	SB-32-0.5	11/22/21	0.26 U	**7.6**	0.26 U	2.1 U	0.26 U	0.51 U	0.13 U	0.13 U	0.13 U	**0.76**	**0.88**	0.13 U	0.51 U	**0.55**	0.51 U	0.26 U	0.13 U	0.26 U	**1.0**	0.26 U	**0.28 I**	0.26 U	0.13 U	**0.33 I**	0.26 U	**0.81 I**	**0.59 I**	0.26 U
	SB-32-2.0	11/22/21	0.26 U	**7.6**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	0.13 U	**2.1**	**1.2**	0.13 U	0.53 U	**0.26 I**	0.53 U	0.26 U	**0.18 I**	0.26 U	**0.74**	0.26 U	**0.21 I**	0.26 U	0.13 U	0.26 U	0.26 U	0.26 U	**0.28 I**	0.26 U
DEPSB-33	SB-33-0.5	11/22/21	**0.52 I**	**19**	0.24 U	2.0 U	0.24 U	0.49 U	0.12 U	0.12 U	0.12 U	**0.13 I**	**0.23 I**	**0.16 I**	0.49 U	**0.56**	**0.53 I**	0.24 U	**0.18 I**	**0.41 I**	**1.3**	**0.40 I**	**0.34 I**	**0.50 I**	**0.13 I**	**0.54 I**	0.24 U	0.24 U	**0.86 I**	0.24 U
	SB-33-2.0	11/22/21	**0.34 I**	**17**	0.28 U	2.3 U	0.28 U	0.57 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.57 U	0.14 U	0.57 U	0.28 U	**0.17 I**	0.28 U	**1.4**	0.28 U	0.14 U	0.28 U	**0.19 I**	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DEPSB-34	SB-34-0.5	11/22/21	**0.84 I**	**39**	0.27 U	2.2 U	0.27 U	0.55 U	0.14 U	0.14 U	**0.14 I**	**1.1**	**2.7**	0.14 U	0.55 U	**2.3**	**1.4 I**	**0.32 I**	**0.38 I**	**0.68 I**	**1.8**	**0.81 I**	**1.5**	**0.53 I**	0.14 U	**0.80 I**	0.27 U	0.27 U	**1.9**	0.27 U
	SB-34-2.0	11/22/21	**0.52 I**	**46**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	**0.19 I**	**7.0**	**0.83**	0.13 U	0.53 U	**0.21 I**	**1.0 I**	0.26 U	**0.34 I**	**0.41 I**	**1.9**	**0.46 I**	**0.48 I**	**0.47 I**	0.15 I	**0.39 I**	0.26 U	0.26 U	**0.53 I**	0.26 U
DEPSB-35	SB-35-0.5	11/22/21	0.26 U	**21**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	0.13 U	**0.98**	**2.2**	0.13 U	0.53 U	**2.6**	**0.80 I**	**0.30 I**	**0.23 I**	0.26 U	**1.5**	**0.40 I**	**0.97**	0.26 U	**0.16 I**	0.26 U	0.26 U	**0.31 I**	**1.7**	0.26 U
	SB-35-2.0	11/22/21	0.26 U	**14**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	**1.4**	**1.2**	0.13 U	0.52 U	0.13 U	0.52 U	0.26 U	0.13 U	0.26 U	**0.32 I**	0.26 U	**0.28 I**	0.26 U	0.13 U	0.26 U	0.26 U	0.26 U	**0.36 I**	0.26 U
DEPSB-36	SB-36-0.5	11/22/21	0.25 U	**34**	0.25 U	2.0 U	0.25 U	0.51 U	0.13 U	0.13 U	**0.18 I**	**2.9**	**1.3**	0.13 U	0.51 U	**1.4**	0.51 U	0.25 U	**0.45 I**	0.25 U	**3.0**	**0.55 I**	**0.94**	0.25 U	**0.31 I**	**0.35 I**	0.25 U	0.25 U	**0.69 I**	0.25 U
	SB-36-2.0	11/22/21	0.26 U	**31**	0.26 U	2.0 U	0.26 U	0.51 U	0.13 U	0.13 U	**0.16 I**	**11**	**0.29 I**	0.13 U	0.51 U	0.13 U	0.51 U	0.26 U	0.13 U	0.26 U	**1.2**	0.26 U	0.13 U	0.26 U	**0.15 I**	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
DEPSB-37	SB-37-0.5	11/22/21	**0.48 I**	**32**	0.23 U	1.8 U	0.23 U	0.46 U	**0.12 I**	0.11 U	**0.39 I**	**8.0**	**24**	**0.16 I**	0.46 U	**8.4**	0.46 U	**0.33 I**	**0.69**	0.23 U	**5.1**	**0.51 I**	**1.3**	0.23 U	**0.33 I**	**0.33 I**	0.23 U	**0.67 I**	**0.91**	0.23 U
	SB-37-2.0	11/22/21	**0.40 I**	**44**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	**0.73**	**41**	**26**	**0.21 I**	0.52 U	**1.5**	0.52 U	0.26 U	**0.78**	0.26 U	**4.9**	**0.38 I**	**2.3**	0.26 U	**0.33 I**	0.26 U	0.26 U	0.26 U	**0.40 I**	0.26 U
DEPSB-38	SB-38-0.5	11/22/21	**0.48 I**	**29**	0.23 U	1.8 U	**0.36 I**	0.46 U	0.12 U	0.12 U	**0.60**	**8.0**	**11**	**0.15 I**	0.46 U	**3.8**	**0.62 I**	0.23 U	**0.63**	0.23 U	**5.4**	**0.43 I**	**1.0**	0.23 U	**0.36 I**	**0.28 I**	0.23 U	**0.49 I**	**1.1**	0.23 U
	SB-38-2.0	11/22/21	0.25 U	**34**	0.25 U	2.0 U	**0.29 I**	0.49 U	0.12 U	0.12 U	**0.75**	**39**	**2.2**	**0.38 I**	0.49 U	**0.18 I**	**0.62 I**	0.25 U	**0.32 I**	0.25 U	**4.0**	**0.31 I**	**0.65**	**0.32 I**	**0.46 I**	0.25 U	0.25 U	0.25 U	**0.29 I**	0.25 U
DEPSB-39	SB-39-0.5	11/22/21	**0.31 I**	**2.9**	0.22 U	1.8 U	**3.6**	0.44 U	0.11 U	0.11 U	0.11 U	**0.31 I**	0.11 U	0.11 U	0.44 U	**0.29 I**	**0.48 I**	**0.40 I**	0.11 U	**0.28 I**	**0.27 I**	0.22 U	0.11 U	**0.42 I**	0.11 U	**0.27 I**	0.22 U	**5.6**	**1.4**	0.22 U
	SB-39-2.0	11/22/21	0.24 U	**4.2**	0.24 U	1.9 U	0.24 U	0.49 U	0.12 U	0.12 U	0.12 U	**1.5 J**	0.12 U	0.12 U	0.49 U	**0.16 I**	0.49 U	0.24 U	0.12 U	0.24 U	**0.40 I**	**0.26 I**	0.12 U	**0.59 I**	0.12 U	**0.44 I**	0.24 U	**0.54 I**	**0.79 I**	0.24 U
DEPSB-40	SB-40-0.5	11/22/21	0.23 U	**8.0**	0.23 U	1.9 U	0.23 U	0.47 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.47 U	**0.13 I**	0.47 U	0.23 U	0.12 U	0.23 U	**0.88**	0.23 U	**0.12 I**	0.23 U	0.12 U	0.23 U	0.23 U	0.23 U	**0.40 I**	0.23 U
	SB-40-2.0	11/22/21	**0.26 I**	**23**	0.26 U	2.1 U	**0.83 I**	0.51 U	0.13 U	0.13 U	**0.97**	**31**	**0.85**	0.13 U	0.51 U	0.13 U	**0.55 I**	0.26 U	**0.14 I**	0.26 U	**2.1**	0.26 U	**0.29 I**	0.26 U	0.13 U	**0.50 I**	0.26 U	0.26 U	0.26 U	0.26 U
DEPSB-41	SB-41-0.5	11/22/21	**0.40 I**	**5.5**	0.22 U	1.8 U	**0.27 I**	0.45 U	0.11 U	0.11 U	0.11 U	**0.17 I**	0.11 U	0.11 U	0.45 U	**0.57**	**0.99 I**	**0.45 I**	0.11 U	**0.53 I**	**0.21 I**	**0.61 I**	0.11 U	**0.33 I**	0.11 U	**0.61 I**	0.22 U	**0.30 I**	**1.6**	0.22 U
	SB-41-2.0	11/22/21	**1.1**	**36**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	**0.46 I**	**0.63**	0.13 U	**0.13 I**	0.52 U	**0.13 I**	**0.58 I**	0.26 U	**0.37 I**	**0.55 I**	**4.5**	**0.59 I**	0.13 U	**0.57 I**	0.33 I	**0.65 I**	0.26 U	0.26 U	**0.64 I**	0.26 U
DEPSB-42	SB-42-0.5	11/22/21	0.23 U	**3.4**	0.23 U	1.9 U	**1.7**	0.47 U	0.12 U	0.12 U	0.12 U	**4.5**	**24**	0.12 U	0.47 U	**1.3**	**0.59 I**	**0.28 I**	**0.12 I**	0.23 U	**0.26 I**	0.23 U	**0.12 I**	0.23 U	0.12 U	0.23 U	0.23 U	0.23 U	**1.2**	0.23 U
	SB-42-2.0	11/22/21	**0.30 I**	**29**	0.25 U	2.0 U	0.25 U	0.50 U	0.13 U	0.13 U	**1.3**	**150**	**1.7**	0.13 U	0.50 U	0.13 U	**0.78 I**	0.25 U	**0.34 I**	0.25 U	**2.0**	0.25 U	**0.27 I**	**0.33 I**	**0.15 I**	**0.38 I**	0.25 U	0.25 U	0.25 U	0.25 U
DEPSB-43	SB-43-0.5	11/22/21	**0.81 I**	**23**	0.22 U	1.8 U	**0.36 I**	0.45 U	0.11 U	0.11 U	**0.42 I**	**13**	**16**	0.11 U	0.45 U	**4.5**	**0.62 I**	**0.62 I**	**0.55**	**0.50 I**	**4.7**	**0.64 I**	**0.80**	**0.40 I**	**0.19 I**	**0.51 I**	0.22 U	**0.59 I**	**2.2**	0.22 U
	SB-43-2.0	11/22/21	**0.56 I**	**46**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	**1.2**	**48**	**12**	**0.16 I**	0.53 U	**0.58**	**0.88 I**	0.26 U	**0.74**	**0.34 I**	**5.5**	**0.82 I**	**2.3**	**0.34 I**	**0.36 I**	**0.58 I**	0.26 U	0.26 U	**0.73 I**	0.26 U
DEPSB-44	SB-44-0.5	11/22/21	**1.8**	**120**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	**1.0**	**42**	**34**	**0.87**	**0.59 I**	**4.6**	**2.1 I**	**0.64 I**	**2.5**	**1.8**	**33**	**2.0**	**1.5**	**1.3**	**1.9**	**2.1**	0.26 U	**0.48 I**	**2.4**	0.26 U
	SB-44-2.0	11/22/21	**1.1**	**140**	0.26 U	2.1 U	0.26 U	0.51 U	0.13 U	0.13 U	**0.75**	**44**	**36**	**0.33 I**	0.51 U	**2.4**	**1.4 I**	0.26 U	**1.4**	**0.62 I**	**15**	**0.88 I**	**1.7**	**0.67 I**	**0.73**	**0.57 I**	0.26 U	0.26 U	**1.2**	0.26 U

TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPSB-45	SB-45-0.5	11/22/21	0.24 U	**14**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	**0.27 I**	**0.78**	0.12 U	0.48 U	**2.2**	0.48 U	**0.90 I**	0.12 U	0.24 U	**0.33 I**	**0.30 I**	**0.38 I**	0.24 U	0.12 U	0.24 U	**0.27 I**	**0.75 I**	**1.1**	0.24 U
	SB-45-2.0	11/22/21	0.26 U	**9.2**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	**0.61**	**0.43 I**	0.13 U	0.52 U	0.13 U	0.52 U	0.26 U	0.13 U	0.26 U	**0.25 I**	0.26 U	**0.59**	0.26 U	0.13 U	0.26 U	0.26 U	0.26 U	**0.58 I**	0.26 U
DEPSB-46	SB-46-0.5	11/22/21	**0.31 I**	**13**	0.25 U	2.0 U	**0.48 I**	0.49 U	0.12 U	0.12 U	0.12 U	**0.93**	**1.2**	0.12 U	0.49 U	**1.1**	**0.89 I**	0.25 U	0.12 U	**0.27 I**	**0.82**	**0.27 I**	**0.35 I**	**0.37 I**	0.12 U	**0.26 I**	0.25 U	**3.3**	**0.93 I**	0.25 U
	SB-46-2.0	11/22/21	**0.67 I**	**85**	0.27 U	2.2 U	**0.31 I**	0.54 U	0.14 U	0.14 U	**0.74**	**7.2**	**0.64**	**0.21 I**	0.54 U	**0.15 I**	**0.64 I**	0.27 U	**0.73**	**0.44 I**	**6.3**	**0.50 I**	**0.30 I**	**0.61 I**	**0.56**	**0.30 I**	0.27 U	0.27 U	**0.39 I**	0.27 U
DEPSB-47	SB-47-0.5	11/22/21	**0.74 I**	**16**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	**0.19 I**	**0.94**	**0.76**	0.12 U	**0.49 I**	**2.1**	**1.4 I**	**0.82 I**	**0.20 I**	**0.87 I**	**2.6**	**0.86 I**	**0.82**	**0.51 I**	**0.13 I**	**1.0**	0.24 U	**0.91 I**	**3.0**	0.24 U
	SB-47-2.0	11/22/21	**0.93 I**	**120**	0.27 U	2.2 U	0.27 U	0.55 U	0.14 U	0.14 U	**1.6**	**20**	**1.0**	**0.28 I**	0.55 U	**0.75**	**1.3 I**	**0.31 I**	**0.57**	**0.66 I**	**8.1**	**0.57 I**	**0.91**	**0.72 I**	**0.57**	**0.93 I**	0.27 U	0.27 U	**1.0 I**	0.27 U
DEPSB-48	SB-48-0.5	11/22/21	**1.5**	**140**	0.24 U	2.0 U	**0.83 I**	0.49 U	0.12 U	0.12 U	**0.67**	**9.8**	**2.5**	**0.26 I**	**0.66 I**	**4.4**	**2.4**	**1.5**	**0.57**	**1.5**	**6.4**	**1.4**	**2.3**	**1.6**	**0.44 I**	**2.4**	**0.28 I**	**0.90 I**	**5.9**	0.24 U
	SB-48-2.0	11/22/21	**7.1**	**1,400**	0.28 U	**6.2 I**	**2.1**	0.56 U	0.14 U	0.14 U	**18**	**57**	**2.6**	**1.2**	**0.88 I**	**0.63**	**2.2 I**	0.28 U	**7.4**	**3.7**	**50**	**3.8**	**3.8**	**11**	**2.2**	**5.5**	0.28 U	0.28 U	**1.4**	0.28 U
DEPSB-49	SB-49-0.5	11/22/21	**0.68 I**	**14**	0.26 U	2.1 U	**1.9**	0.52 U	0.13 U	0.13 U	0.13 U	**4.3**	**7.1**	0.13 U	0.52 U	**4.0**	**3.3**	**0.95 I**	**0.15 I**	**1.3**	**1.5**	**0.58 I**	**0.40 I**	**0.67 I**	0.13 U	**0.56 I**	0.26 U	**0.38 I**	**3.6**	0.26 U
	SB-49-2.0	11/22/21	0.27 U	**5.8**	0.27 U	2.2 U	**0.92 I**	0.54 U	0.14 U	0.14 U	0.14 U	**5.0**	**3.1**	0.14 U	0.54 U	**0.23 I**	**1.6 I**	0.27 U	0.14 U	**0.32 I**	**0.47 I**	0.27 U	**0.37 I**	0.27 U	0.14 U	0.27 U	0.27 U	0.27 U	**0.46 I**	0.27 U
DEPSB-50	SB-50-0.5	11/22/21	**0.82 I**	**7.3**	0.26 U	2.1 U	**1.5**	0.51 U	0.13 U	0.13 U	0.13 U	**1.2**	**1.5**	0.13 U	0.51 U	**2.0**	**2.2**	**1.5**	**0.13 I**	**1.4**	**0.71**	**0.85 I**	**0.31 I**	**0.53 I**	0.13 U	**0.86 I**	0.26 U	**0.89 I**	**4.7**	0.26 U
	SB-50-2.0	11/22/21	**0.56 I**	**16**	0.26 U	2.1 U	**0.38 I**	0.53 U	0.13 U	0.13 U	**0.14 I**	**5.6**	**0.96**	0.13 U	0.53 U	**0.33 I**	**2.2**	0.26 U	0.13 U	**0.89 I**	**1.5**	**0.62 I**	**0.52 I**	**0.63 I**	**0.16 I**	**0.77 I**	0.26 U	0.26 U	**1.4**	0.26 U
DEPSB-51	SB-51-0.5	11/22/21	**3.2**	**39**	0.27 U	2.1 U	**1.5**	0.53 U	0.13 U	0.13 U	**0.21 I**	**3.5**	**1.1**	**0.17 I**	**1.7 I**	**1.9**	**2.7**	**1.4**	**0.27 I**	**4.5**	**5.7**	**2.9**	**0.72**	**4.7**	**0.26 I**	**4.9**	**0.28 I**	**3.0**	**9.8**	0.27 U
	SB-51-2.0	11/22/21	**1.2**	**28**	0.26 U	2.1 U	**2.5**	0.52 U	0.13 U	0.13 U	0.13 U	**12**	**1.9**	0.13 U	**0.55 I**	**0.93**	**2.3**	0.26 U	0.13 U	**1.7**	**2.2**	**1.0**	**0.91**	**1.6**	0.13 U	**1.4**	0.26 U	**0.32 I**	**4.8**	0.26 U
DEPSB-52	SB-52-0.5	11/22/21	0.25 U	**4.4**	0.25 U	2.0 U	0.25 U	0.49 U	0.12 U	0.12 U	0.12 U	**0.17 I**	**0.27 I**	0.12 U	0.49 U	**0.60**	0.49 U	**0.48 I**	0.12 U	0.25 U	**0.29 I**	0.25 U	0.12 U	0.25 U	0.12 U	0.25 U	0.25 U	**0.56 I**	**0.44 I**	0.25 U
	SB-52-2.0	11/22/21	0.26 U	**3.0**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	**0.40 I**	**0.68**	0.13 U	0.52 U	**0.61**	0.52 U	**0.26 I**	0.13 U	0.26 U	**0.26 I**	0.26 U	0.13 U	0.26 U	0.13 U	0.26 U	0.26 U	**0.34 I**	**0.63 I**	0.26 U
DEPSB-53	SB-53-0.5	11/22/21	**0.36 I**	**11**	0.24 U	2.0 U	0.24 U	0.49 U	0.12 U	0.12 U	0.12 U	**1.2**	**0.21 I**	0.12 U	0.49 U	**0.65**	**0.63 I**	**0.58 I**	**0.15 I**	**0.36 I**	**1.7**	**0.35 I**	**0.23 I**	**0.34 I**	**0.18 I**	**0.36 I**	0.24 U	**1.7**	**1.8**	0.24 U
	SB-53-2.0	11/22/21	**0.74 I**	**50**	0.27 U	2.2 U	0.27 U	0.54 U	0.14 U	0.14 U	**0.42 I**	**10**	**0.27 I**	**0.25 I**	0.54 U	**0.15 I**	**0.78 I**	0.27 U	**0.34 I**	**0.60 I**	**4.7**	**0.56 I**	**0.40 I**	**0.75 I**	**0.50 I**	**0.39 I**	0.27 U	0.27 U	**1.1**	0.27 U
DEPSB-54	SB-54-0.5	11/22/21	**2.8**	**190**	0.29 U	2.3 U	**0.94 I**	0.57 U	0.14 U	0.14 U	**1.9**	**31**	**5.7**	**1.0**	**1.2 I**	**3.7**	**4.9**	**4.5**	**1.1**	**3.0**	**28**	**2.6**	**2.1**	**2.6**	**1.7**	**3.4**	**0.49 I**	**1.9**	**11**	0.29 U
	SB-54-2.0	11/22/21	**2.3**	**340**	0.27 U	2.2 U	**1.3**	0.55 U	0.14 U	0.14 U	**2.5**	**31**	**1.1**	**0.63**	**0.90 I**	**0.66**	**2.7**	**0.29 I**	**1.3**	**1.8**	**19**	**2.0**	**1.1**	**3.3**	**1.2**	**2.2**	0.27 U	0.27 U	**2.3**	0.27 U
DEPSB-55	SB-55-0.5	11/23/21	**2.4**	**220**	0.28 U	**2.4 I**	**4.4**	0.56 U	**0.20 I**	0.14 U	**0.51 I**	**63**	**6.6**	**0.42 I**	**0.89 I**	**4.3**	**7.9**	**2.5**	**0.87**	**4.4**	**17**	**2.3**	**5.3**	**2.9**	**0.54 I**	**3.5**	**0.29 I**	**2.6**	**9.3**	0.28 U
	SB-55-2.0	11/23/21	**0.75 I**	**73**	0.26 U	2.1 U	**0.87 I**	0.52 U	0.13 U	0.13 U	**0.17 I**	**27**	**0.56**	0.13 U	0.52 U	**0.27 I**	**2.4**	0.26 U	**0.26 I**	**1.5**	**3.7**	**0.77 I**	**1.2**	**0.97 I**	**0.14 I**	**1.1**	0.26 U	0.26 U	**0.92 I**	0.26 U
DEPSB-56	SB-56-0.5	11/23/21	**2.1**	**40**	0.28 U	2.3 U	**0.46 I**	0.57 U	0.14 U	0.14 U	0.14 U	**2.4**	**2.2**	**0.14 I**	**0.93 I**	**2.5**	**3.5**	**1.3**	**0.23 I**	**2.6**	**5.0**	**1.6**	**2.2**	**1.4**	0.14 U	**2.1**	0.28 U	**1.3**	**4.8**	0.28 U
	SB-56-2.0	11/23/21	**0.51 I**	**9.0**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	0.13 U	**0.99**	**0.18 I**	0.13 U	0.53 U	0.13 U	**0.60 I**	0.26 U	0.13 U	**1.6**	**0.70**	**0.82 I**	**0.16 I**	**0.47 I**	0.13 U	**0.72 I**	0.26 U	0.26 U	**0.45 I**	0.26 U
DEPSB-57	SB-57-0.5	11/23/21	**1.2**	**5.7**	0.25 U	2.0 U	**0.47 I**	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.69 I**	**0.30 I**	**2.9**	**1.4**	0.12 U	**1.4**	**0.31 I**	**0.92 I**	**0.13 I**	**1.1**	0.12 U	**1.1**	**0.25 I**	**2.8**	**9.5**	0.25 U
	SB-57-2.0	11/23/21	**0.37 I**	**13**	0.24 U	1.9 U	**0.26 I**	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	**1.9 I**	0.24 U	0.12 U	**0.44 I**	**0.25 I**	**0.37 I**	0.12 U	**0.98**	0.12 U	**0.32 I**	0.24 U	0.24 U	**1.3**	0.24 U
DEPSB-58	SB-58-0.5	11/23/21	**0.66 I**	**11**	0.26 U	2.1 U	0.26 U	0.52 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.14 I**	0.13 U	0.52 U	**0.56**	**1.1 I**	**1.9**	0.13 U	**0.62 I**	**0.73**	**0.56 I**	**0.21 I**	**0.61 I**	0.13 U	**0.44 I**	**0.59 I**	**17**	**29**	0.26 U
	SB-58-2.0	11/23/21	0.25 U	**4.2**	0.25 U	2.0 U	0.25 U	0.51 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.51 U	0.13 U	**0.69 I**	0.25 U	0.13 U	0.25 U	**0.30 I**	0.25 U	**0.20 I**	**0.30 I**	0.13 U	0.25 U	0.25 U	**1.2**	**21**	0.25 U
DEPSB-59	SB-59-0.5	11/23/21	0.22 U	**2.7**	0.22 U	1.8 U	0.22 U	0.44 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.44 U	0.11 U	0.44 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.11 U	0.22 U	0.22 U	0.22 U	**0.29 I**	0.22 U
	SB-59-2.0	11/23/21	0.24 U	**2.3**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	0.12 U	0.24 U	**0.15 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
DEPSB-60	SB-60-0.5	11/23/21	0.24 U	**3.2**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.51 I	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	**0.27 I**	0.24 U	0.24 U	**0.70 I**	0.24 U
	SB-60-2.0	11/23/21	0.25 U	**3.4**	0.25 U	2.0 U	0.25 U	0.50 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.50 U	0.12 U	0.50 U	0.25 U	0.12 U	0.25 U	0.12 U	0.25 U	0.12 U	0.25 U	0.12 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
DEPSB-61	SB-61-0.5	11/23/21	0.23 U	**3.7**	0.23 U	1.8 U	0.23 U	0.46 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.46 U	0.47	0.47 I	0.46 I	0.11 U	0.23 U	**0.22 I**	0.23 U	0.11 U	**0.31 I**	0.11 U	**0.33 I**	0.23 U	**0.51 I**	**0.97**	0.23 U
	SB-61-2.0	11/23/21	0.24 U	**1.9**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	0.12 U	0.24 U	**0.21 I**	0.24 U	**0.17 I**	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	**0.31 I**	0.24 U
DEPSB-62	SB-62-0.5	11/23/21	0.22 U	**3.9**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	0.11 U	0.69 I	0.22 U	0.11 U	0.22 U	**0.29 I**	0.22 U	**0.17 I**	**0.27 I**	0.11 U	0.22 U	0.22 U	0.24 I	**0.71 I**	0.22 U
	SB-62-2.0	11/23/21	0.24 U	**5.0**	0.24 U	1.9 U	0.24 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	0.12 U	0.49 U	0.24 U	0.12 U	0.24 U	**0.28 I**	0.24 U	**0.24 I**	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	**0.36 I**	0.24 U
DEPSB-63	SB-63-0.5	11/23/21	0.23 U	**3.4**	0.23 U	1.9 U	0.23 U	0.47 U	0.12 U	0.12 U	0.12 U	**0.13 I**	0.12 U	0.12 U	0.47 U	**0.73**	**1.8 I**	**0.45 I**	0.12 U	0.23 U	**0.22 I**	0.23 U	**0.26 I**	**0.25 I**	0.12 U	0.23 U	0.23 U	**1.4**	**2.9**	0.23 U
	SB-63-2.0	11/23/21	0.26 U	**6.1**	0.26 U	2.1 U	0.26 U	0.51 U	0.13 U	0.13 U	0.13 U	**0.46 I**	0.13 U	0.13 U	0.51 U	0.13 U	**0.59 I**	0.26 U	0.13 U	0.26 U	**0.41 I**	0.26 U	**0.30 I**	**0.36 I**	0.13 U	0.26 U	0.26 U	0.26 U	**0.32 I**	0.26 U
DEPSB-64	SB-64-0.5	11/23/21	**1.4**	**22**	0.24 U	**8.4**	**16**	0.47 U	**0.15 I**	0.12 U	**0.73**	**28**	**16**	**0.15 I**	**0.57 I**	**3.2**	**2.5**	**6.0**	**0.35 I**	**1.2**	**3.6**	**1.1**	**0.62**	**0.45 I**	**0.33 I**	**1.4**	**2.1**	**7.7**	**7.8**	0.24 U
	SB-64-2.0	11/23/21	**0.43 I**	**5.6**	0.25 U	**2.0 I**	**19**	0.49 U	**2.1**	0.12 U	**0.24 I**	**21**	**49**	0.12 U	0.49 U	**1.9**	**1.4 I**	**1.1**	0.12 U	**0.34 I**	**0.82**	**0.66 I**	**1.9**	0.25 U	0.12 U	**0.40 I**	0.25 U	**4.9**	**8.6**	0.25 U
DEPSB-65	SB-65-0.5	11/23/21	0.24 U	**11**	0.24 U	1.9 U	0.24 U	0.47 U	0.12 U	0.12 U	**0.18 I**	**3.5**	**2.3**	0.12 U	0.47 U	**2.5**	**0.88 I**	**2.5**	**0.27 I**	**0.24 I**	**2.2**	**0.53 I**	**1.3**	0.24 U	0.12 U	**0.66 I**	**0.96**	**4.3**	**5.8**	0.24 U
	SB-65-2.0	11/23/21	0.25 U	**31**	0.25 U	2.0 U	0.25 U	0.50 U	0.13 U	0.13 U	**0.15 I**	**42**	**1.4**	0.13 U	0.50 U	**0.43 I**	**0.81 I**	**0.39 I**	**0.35 I**	0.25 U	**1.7**	0.25 U	**1.3**	0.25 U	0.13 U	0.25 U	0.25 U	**0.43 I**	**3.6**	0.25 U
DEPSB-66	SB-66-0.5	11/23/21	**0.86 I**	**8.5**	0.23 U	1.8 U	**7.7**	0.45 U	**0.17 I**	0.11 U	**0.35 I**	**20**	**8.2**	0.11 U	**0.53 I**	**0.88**	**4.0**	**1.9**	0.11 U	**0.55 I**	**2.1**	**0.60 I**	**0.50**	**0.97**	**0.12 I**	**1.2**	**2.0**	**160**	**6.3**	0.23 U
	SB-66-2.0	11/23/21	**0.72 I**	**37**	0.22 U	1.8 U	**14**	0.45 U	0.11 U	0.11 U	**0.65**	**76**	**7.0**	0.11 U	0.45 U	**0.78**	**1.3 I**	**2.5**	**0.12 I**	**0.31 I**	**1.8**	**0.44 I**	**0.54**	**1.0**	**0.20 I**	**0.62 I**	0.22 U	**31**	**21**	0.22 U

TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPSB-67	SB-67-0.5	11/23/21	**0.78 I**	**17**	0.22 U	**2.8 I**	**8.7**	0.44 U	**0.11 U**	0.11 U	**0.54**	**23**	**6.0**	**0.30 I**	**0.56 I**	**7.4**	**1.2 I**	**3.7**	**0.21 I**	**0.58 I**	**3.8**	**1.2**	**0.71**	**0.35 I**	**0.35 I**	**1.9**	**1.2**	**19**	**3.4**	0.22 U
	SB-67-2.0	11/23/21	**2.4**	**50**	0.24 U	**5.8 I**	**23**	0.49 U	0.12 U	0.12 U	**3.7**	**300**	**8.9**	**0.60**	**0.62 I**	**1.2**	**1.9 I**	**0.70 I**	**0.64**	**1.1**	**11**	**1.6**	**4.2**	**1.0**	**0.80**	**2.0**	0.24 U	**1.8**	**50**	0.24 U
DEPSB-68	SB-68-0.5	11/23/21	**2.0**	**37**	0.23 U	**19**	**120**	0.46 U	**0.12 I**	0.12 U	**0.51**	**19**	**8.8**	**0.14 I**	**0.69 I**	**2.8**	**7.3**	**6.9**	**0.36 I**	**0.94**	**3.6**	**1.4**	**1.3**	**0.84 I**	**0.34 I**	**1.9**	**1.4**	**3.1**	**5.0**	0.23 U
	SB-68-2.0	11/23/21	**1.6**	**47**	0.23 U	**16**	**140**	0.46 U	0.11 U	0.11 U	**0.28 I**	**25**	**5.9**	0.11 U	0.46 U	**0.27 I**	**3.0**	**0.69 I**	**0.20 I**	**0.85 I**	**2.4**	**1.4**	**1.6**	**0.33 I**	**0.13 I**	**0.92**	0.23 U	**0.41 I**	**13**	0.23 U
DEPSB-69	SB-69-0.5	11/23/21	**1.1**	**7.2**	0.22 U	1.8 U	**4.4**	0.44 U	0.11 U	0.11 U	**0.13 I**	**2.4**	**0.62**	0.11 U	0.44 U	**1.4**	**1.6 I**	**2.1**	0.11 U	**0.60 I**	**1.0**	**0.48 I**	**0.18 I**	**0.41 I**	0.18 I	**0.48 I**	**0.54 I**	**1.1**	**1.9**	0.22 U
	SB-69-2.0	11/23/21	**0.49 I**	**2.9**	0.24 U	1.9 U	**3.0**	0.49 U	0.12 U	0.12 U	0.12 U	**2.3**	**1.0**	0.12 U	0.49 U	**0.82**	**1.3 I**	0.24 U	0.12 U	**0.51 I**	**0.42 I**	**0.32 I**	0.12 U	0.24 U	0.12 U	**0.52 I**	0.24 U	0.24 U	**2.5**	0.24 U
DEPSB-70	SB-70-0.5	11/23/21	0.22 U	**5.6**	0.22 U	1.7 U	**1.0**	0.43 U	0.11 U	0.11 U	0.11 U	**0.28 I**	**0.27 I**	0.11 U	0.43 U	**1.7**	**0.84 I**	**3.1**	0.11 U	0.22 U	**0.55**	0.22 U	**0.12 I**	0.22 U	0.11 U	0.22 U	**0.79 I**	**2.0**	**2.2**	0.22 U
	SB-70-2.0	11/23/21	**0.36 I**	**2.3**	0.25 U	2.0 U	**1.7**	0.50 U	0.12 U	0.12 U	0.12 U	**2.1**	**0.66**	0.12 U	0.50 U	**2.2**	**0.96 I**	**1.1**	0.12 U	**0.38 I**	**0.82**	**0.40 I**	**0.26 I**	0.25 U	0.12 U	**0.36 I**	0.25 U	**0.63 I**	**3.3**	0.25 U
DEPSB-71	SB-71-0.5	11/23/21	**0.56 I**	**7.1**	0.22 U	1.8 U	**1.6**	0.44 U	0.11 U	0.11 U	0.11 U	**0.61**	**0.27 I**	0.11 U	0.44 U	**2.7**	**1.6 I**	**4.0**	0.11 U	**0.32 I**	**0.35 I**	**0.29 I**	**0.13 I**	**0.36 I**	0.11 U	**0.38 I**	**1.3**	**1.8**	**1.5**	0.22 U
	SB-71-2.0	11/23/21	0.25 U	**1.6**	0.25 U	2.0 U	**0.73 I**	0.49 U	0.12 U	0.12 U	0.12 U	**0.64**	**0.71**	0.12 U	0.49 U	**1.0**	**0.53 I**	**1.6**	0.12 U	0.25 U	**0.18 I**	**0.39 I**	0.12 U	0.25 U	0.12 U	**0.41 I**	**0.53 I**	**1.8**	**1.4**	0.25 U
DEPSB-72	SB-72-0.5	11/23/21	**0.64 I**	**5.5**	0.23 U	1.8 U	**5.8**	0.45 U	0.11 U	0.11 U	0.11 U	**1.2**	**0.40 I**	0.11 U	**0.51 I**	**1.4**	**1.5 I**	**4.2**	0.11 U	**0.47 I**	**0.49**	**1.1**	0.11 U	**0.34 I**	0.11 U	**1.0**	**0.89 I**	**2.2**	**2.0**	0.23 U
	SB-72-2.0	11/23/21	**1.1**	**42**	0.26 U	**2.1 I**	**13**	0.51 U	0.13 U	0.13 U	0.13 U	**11**	**1.7**	0.13 U	**0.77 I**	**0.43 I**	**2.0 I**	**1.3**	**0.15 I**	**1.3**	**1.4**	**1.8**	**0.66**	**0.42 I**	0.13 U	**2.2**	0.26 U	**0.76 I**	**2.2**	0.26 U
DEPSB-73	SB-73-0.5	11/23/21	**0.67 I**	**9.4**	0.22 U	1.8 U	**0.55 I**	0.44 U	0.11 U	0.11 U	**0.11 I**	**0.45**	**0.19 I**	0.11 U	**0.94 I**	**1.5**	**1.0 I**	**1.2**	0.11 U	**0.65 I**	**1.1**	**1.5**	**0.19 I**	**0.75 I**	0.11 U	**2.0**	0.22 U	**0.51 I**	**1.5**	0.22 U
	SB-73-2.0	11/23/21	**0.32 I**	**4.1**	0.23 U	1.8 U	**0.28 I**	0.46 U	0.12 U	0.12 U	0.12 U	**0.47**	**0.25 I**	0.12 U	**0.55 I**	**1.5**	**0.64 I**	**0.45 I**	0.12 U	**0.53 I**	**0.49**	**0.69 I**	**0.62**	**0.35 I**	0.12 U	**1.1**	0.23 U	0.23 U	**1.7**	0.23 U
DEPSB-74	SB-74-0.5	11/23/21	**4.7**	**3.7**	0.23 U	1.8 U	**2.2**	0.46 U	0.11 U	0.11 U	0.11 U	**0.12 I**	0.11 U	0.11 U	**0.98 I**	**0.49**	**1.6 I**	**0.36 I**	0.11 U	**3.4**	**0.62**	**1.5**	**0.13 I**	**5.9**	0.11 U	**2.1**	0.23 U	**0.34 I**	**1.3**	0.23 U
	SB-74-2.0	11/23/21	**1.0**	**3.2**	0.24 U	1.9 U	**1.6**	0.49 U	0.12 U	0.12 U	0.12 U	**0.30 I**	0.12 U	0.12 U	**0.52 I**	0.12 U	**0.76 I**	0.24 U	0.12 U	**1.3**	**0.43 I**	**0.76 I**	**0.14 I**	**1.6**	0.12 U	**0.96 I**	0.24 U	0.24 U	**0.56 I**	0.24 U
DEPSB-75	SB-75-0.5	11/23/21	**0.83 I**	**14**	0.24 U	1.9 U	**0.35 I**	0.48 U	0.12 U	0.12 U	0.12 U	**0.13 I**	0.12 U	**0.25 I**	**0.49 I**	**1.2**	**0.72 I**	**0.94 I**	0.12 U	**0.50 I**	**1.1**	**0.74 I**	**0.22 I**	**0.98**	**0.26 I**	**1.2**	**0.28 I**	**0.50 I**	**1.3**	0.24 U
	SB-75-2.0	11/23/21	**0.45 I**	**24**	0.26 U	**11**	0.26 U	0.51 U	0.13 U	0.13 U	**1.2**	**4.0**	0.13 U	**0.49 I**	**0.62 I**	0.13 U	0.51 U	0.26 U	**0.19 I**	**0.53 I**	**2.4**	**2.3**	**0.15 I**	**0.32 I**	**0.57**	**3.2**	0.26 U	0.26 U	**0.48 I**	0.26 U
DEPSB-76	SB-76-0.5	11/23/21	**2.2**	**14**	0.22 U	**3.1 I**	**3.3**	0.43 U	**0.56**	0.11 U	**5.5**	**56**	**13**	**1.6**	**1.2 I**	**4.6**	**1.1 I**	**2.0**	**0.74**	**1.8**	**17**	**3.8**	**0.20 I**	**0.96**	**2.4**	**3.2**	**0.66 I**	**12**	**1.5**	**0.49 I**
	SB-76-2.0	11/23/21	**1.3**	**34**	0.23 U	1.8 U	**1.2**	0.46 U	**0.33 I**	0.11 U	**9.8**	**440**	**6.1**	**0.58**	**0.59 I**	**1.5**	**1.5 I**	**0.58 I**	**0.47**	**0.95**	**12**	**1.6**	**1.1**	**1.6**	**1.1**	**1.4**	0.23 U	**0.85 I**	**7.1**	0.23 U
DEPSB-77	SB-77-0.5	11/23/21	0.22 U	**8.1**	0.22 U	**3.1 I**	**41**	0.43 U	**0.19 I**	0.11 U	0.11 U	**1.5**	**3.0**	0.11 U	0.43 U	**7.3**	**1.8**	**26**	0.11 U	0.22 U	**0.45**	0.22 U	**0.55**	0.22 U	0.11 U	**0.30 I**	**2.7**	**4.3**	**9.7**	0.22 U
	SB-77-2.0	11/23/21	**0.29 I**	**42**	0.21 U	**5.8 I**	0.21 U	0.42 U	**0.45**	0.11 U	0.11 U	**2.8**	**12**	0.11 U	0.42 U	**6.1**	**6.0**	**5.3**	0.11 U	0.21 U	**0.38 I**	**0.26 I**	**1.6**	0.21 U	0.11 U	0.21 U	**0.91**	**3.3**	**5.3**	0.21 U
	SB-77-2.5	11/23/21	**1.0 I**	**85**	0.27 U	**27**	0.27 U	0.53 U	**0.62**	0.13 U	**0.54**	**44**	**16**	0.13 U	**1.2 I**	**1.6**	**4.1**	**1.5**	0.16 I	**1.6**	**2.0**	**2.7**	**0.46 I**	**0.40 I**	**0.15 I**	**4.6**	**0.35 I**	**0.66 I**	**1.7**	0.27 U
DEPSB-78	SB-78-0.5	11/23/21	**0.78 I**	**21**	0.21 U	**10**	0.21 U	0.43 U	0.11 U	0.11 U	0.11 U	**3.2**	**2.2**	0.11 U	0.43 U	**1.4**	**3.5**	**5.3**	0.11 U	0.21 U	**0.47**	**0.31 I**	**0.28 I**	**0.31 I**	0.11 U	**0.27 I**	**1.3**	**1.9**	**1.5**	0.21 U
	SB-78-2.0	11/23/21	0.21 U	**7.7**	0.21 U	**2.5 I**	**72**	0.41 U	0.10 U	0.10 U	0.10 U	**0.81**	**0.83**	0.10 U	0.41 U	**0.25 I**	**0.75 I**	**0.28 I**	0.10 U	0.21 U	**0.19 I**	0.21 U	0.10 U	0.21 U	0.10 U	0.21 U	0.21 U	**0.23 I**	**0.67 I**	0.21 U
	SB-78-2.5	11/23/21	0.22 U	**6.2**	0.22 U	1.8 U	**37**	0.44 U	0.11 U	0.11 U	0.11 U	**1.4**	**1.8**	0.11 U	0.44 U	**0.38 I**	**0.82 I**	**0.36 I**	0.11 U	0.22 U	**0.18 I**	**0.25 I**	**0.44 I**	0.22 U	0.11 U	0.22 U	0.22 U	**0.54 I**	**0.63 I**	0.22 U
DEPSB-79	SB-79-0.5	11/23/21	**0.55 I**	**10**	0.22 U	1.8 U	**6.6**	0.44 U	**0.29 I**	0.11 U	0.11 U	**1.5**	**2.1**	0.11 U	0.44 U	**2.5**	**1.5 I**	**4.3**	0.11 U	0.22 U	**0.34 I**	**0.23 I**	**0.75**	**0.46 I**	0.11 U	0.22 U	**0.92**	**3.2**	**4.7**	0.22 U
	SB-79-2.0	11/23/21	**0.76 I**	**13**	0.24 U	1.9 U	**12**	0.48 U	**0.59**	0.12 U	0.12 U	**6.7**	**8.3**	0.12 U	0.48 U	**2.5**	**1.5 I**	**1.0**	0.12 U	**0.51 I**	**0.80**	**0.45 I**	**0.22 I**	**0.28 I**	0.12 U	**0.34 I**	0.24 U	**0.47 I**	**1.5**	0.24 U
	SB-79-2.5	11/23/21	**0.34 I**	**5.0**	0.28 U	2.2 U	**7.4**	0.55 U	0.14 U	0.14 U	0.14 U	**11**	**4.4**	0.14 U	0.55 U	0.14 U	**0.81 I**	0.28 U	0.14 U	**0.89 I**	**1.1**	**0.61 I**	**0.54 I**	**0.40 I**	0.14 U	**0.42 I**	0.28 U	0.28 U	**1.3**	0.28 U
DEPSB-80	SB-80-0.5	11/23/21	**0.33 I**	**16**	0.22 U	**3.9 I**	**12**	0.44 U	**0.20 I**	0.11 U	0.11 U	**0.51**	**0.25 I**	0.11 U	0.44 U	**6.5**	**0.68 I**	**18**	0.11 U	0.22 U	**0.47**	**0.54 I**	**1.3**	0.22 U	0.11 U	**0.32 I**	**3.7**	**3.6**	**5.0**	0.22 U
	SB-80-2.0	11/23/21	**0.45 I**	**270**	0.23 U	**4.6 I**	0.23 U	0.45 U	**4.3**	**1.0**	0.11 U	**1.6**	**18**	0.11 U	0.45 U	**7.6**	**6.4**	**19**	0.11 U	0.23 U	**0.59**	**0.47 I**	**8.5**	**0.24 I**	0.11 U	**0.70 I**	**4.9**	**4.2**	**26**	0.23 U
	SB-80-2.5	11/23/21	**0.44 I**	**140**	0.23 U	**5.3 I**	0.23 U	0.47 U	**2.2**	**0.43 I**	**0.18 I**	**9.9**	**13**	0.12 U	0.47 U	**5.3**	**3.4**	**12**	0.12 U	**0.33 I**	**0.60**	**0.67 I**	**4.3**	0.23 U	0.12 U	**0.87 I**	**3.1**	**3.2**	**9.5**	0.23 U
DEPSB-81	SB-81-0.5	11/23/21	0.22 U	**3.4**	0.22 U	1.8 U	**4.5**	0.44 U	**0.22 I**	0.11 U	0.11 U	**0.40 I**	**0.32 I**	0.11 U	0.44 U	**1.9**	**0.64 I**	**15**	0.11 U	**0.32 I**	**0.37 I**	**0.53 I**	0.11 U	0.22 U	0.11 U	**0.64 I**	**2.9**	**3.2**	**1.4**	0.22 U
	SB-81-2.0	11/23/21	**0.30 I**	**4.7**	0.23 U	**2.9 I**	**8.9**	0.45 U	**0.88**	0.11 U	0.11 U	**1.6**	**4.3**	0.11 U	0.45 U	**6.1**	**0.87 I**	**9.8**	0.11 U	0.23 U	**0.43 I**	**0.41 I**	**0.27 I**	0.23 U	0.11 U	**0.58 I**	**1.4**	**2.9**	**2.4**	0.23 U
	SB-81-2.5	11/23/21	**0.31 I**	**7.6**	0.26 U	**3.4 I**	**9.9**	0.52 U	**0.67**	0.13 U	**0.13 I**	**9.6**	**24**	0.13 U	0.52 U	**0.90**	**0.77 I**	**0.93 I**	0.13 U	**0.28 I**	**0.44 I**	**0.57 I**	**0.36 I**	0.26 U	0.13 U	**0.80 I**	0.26 U	0.26 U	**2.5**	0.26 U
DEPSB-82	SB-82-0.5	11/29/21	**0.58 I**	**3.4**	0.23 U	1.9 U	0.23 U	0.47 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.47 U	**0.41 I**	**0.61 I**	**1.2**	0.12 U	**0.49 I**	**0.23 I**	**0.44 I**	0.12 U	**0.66 I**	0.12 U	**0.50 I**	**0.28 I**	**0.73 I**	**1.8**	0.23 U
	SB-82-2.0	11/29/21	**0.27 I**	**13**	0.27 U	2.2 U	0.27 U	0.54 U	0.14 U	0.14 U	**0.29 I**	**4.4**	0.14 U	0.14 U	0.54 U	0.14 U	0.54 U	0.27 U	0.14 U	0.27 U	**0.67**	**0.50 I**	**0.24 I**	**0.39 I**	0.14 U	**0.65 I**	0.27 U	0.27 U	**0.57 I**	0.27 U
	SB-82-2.5	11/29/21	**0.34 I**	**13**	0.28 U	**3.2 I**	0.28 U	0.55 U	0.14 U	0.14 U	**0.47 I**	**8.6**	**0.18 I**	0.14 U	0.55 U	0.14 U	**0.57 I**	0.28 U	0.14 U	**0.32 I**	**0.84**	**0.63 I**	0.14 U	**0.33 I**	0.14 U	**0.89 I**	0.28 U	0.28 U	**0.58 I**	0.28 U
DEPSB-83	SB-83-0.5	11/29/21	**1.3**	**6.5**	0.23 U	1.8 U	**0.37 I**	0.46 U	0.11 U	0.11 U	**0.21 I**	**0.78**	**0.35 I**	0.11 U	**1.2 I**	**0.71**	**1.3 I**	**1.5**	0.11 U	**1.3**	**1.6**	**1.3**	0.11 U	**3.3**	**0.19 I**	**1.8**	**0.54 I**	**18**	**7.1**	0.23 U
	SB-83-2.0	11/29/21	**2.2**	**23**	0.26 U	2.0 U	0.26 U	0.51 U	0.13 U	0.13 U	**0.14 I**	**5.7**	**0.25 I**	**0.15 I**	**1.2 I**	0.13 U	**0.92 I**	0.26 U	0.13 U	**2.4**	**3.0**	**2.3**	**0.16 I**	**4.7**	**0.28 I**	**2.7**	0.26 U	**0.67 I**	**2.6**	0.26 U
DEPSB-84	SB-84-0.5	11/29/21	**0.92**	**9.7**	0.22 U	**3.1 I**	**4.8**	0.44 U	0.11 U	0.11 U	0.11 U	**1.1**	**0.29 I**	0.11 U	**0.50 I**	**0.43 I**	**1.5 I**	**0.94**	0.11 U	**0.65 I**	**0.80**	**1.0**	0.11 U	**0.51 I**	0.11 U	**1.4**	**0.22 I**	**0.94**	**1.9**	0.22 U
	SB-84-2.0	11/29/21	**0.59 I**	**18**	0.23 U	1.8 U	**77**	0.46 U	0.11 U	0.11 U	**0.22 I**	**21**	**0.99**	0.11 U	**0.61 I**	**0.21 I**	**1.0 I**	0.23 U	**0.13 I**	**0.70 I**	**1.4**	**1.3**	**0.47**	**0.45 I**	0.11 U	**2.0**	0.23 U	0.23 U	**1.1**	0.23 U
	SB-84-2.5	11/29/21	**1.1**	**52**	0.25 U	**20**	0.25 U	0.50 U	**0.31 I**	0.13 U	**0.61**	**57**	**7.3**	0.13 U	**1.6 I**	**0.30 I**	**2.8**	0.25 U	0.13 U	**1.5**	**1.5**	**3.7**	**1.5**	**0.36 I**	**0.14 I**	**5.2**	0.25 U	0.25 U	**1.8**	0.25 U

TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPSB-85	SB-85-0.5	11/29/21	**0.65 I**	**26**	0.22 U	**3.2 I**	**7.4**	0.44 U	0.11 U	0.11 U	0.11 U	**1.2**	**0.87**	0.11 U	0.44 U	**0.74**	**1.3 I**	**3.7**	**0.22 I**	**0.39 I**	**0.99**	**0.64 I**	**0.18 I**	0.22 U	0.11 U	**0.86 I**	**0.88**	**1.0**	**1.3**	0.22 U
	SB-85-2.0	11/29/21	**0.34 I**	**13**	0.24 U	**5.5 I**	**76**	0.47 U	0.12 U	0.12 U	0.12 U	**3.5**	**1.1**	0.12 U	0.47 U	**0.42 I**	**2.0**	0.24 U	0.12 U	**0.29 I**	**0.48**	**0.66 I**	**0.22 I**	0.24 U	0.12 U	**0.87 I**	0.24 U	0.24 U	**0.79 I**	0.24 U
	SB-85-2.5	11/29/21	**0.27 I**	**9.4**	0.27 U	**6.1 I**	**64**	0.54 U	0.13 U	0.13 U	0.13 U	**5.3**	**1.1**	0.13 U	**0.59 I**	**0.34 I**	**2.1 I**	0.27 U	0.13 U	**0.49 I**	**0.58**	**1.6**	0.13 U	0.27 U	0.13 U	**2.5**	0.27 U	0.27 U	**0.65 I**	0.27 U
DEPSB-86	SB-86-0.5	11/29/21	**0.36 I**	**5.9**	0.21 U	1.7 U	**15**	0.42 U	0.11 U	0.11 U	0.11 U	**1.0**	**0.50**	0.11 U	0.42 U	**1.2**	**0.85 I**	**0.79 I**	0.11 U	**0.22 I**	**0.30 I**	**0.23 I**	0.11 U	**0.23 I**	0.11 U	**0.24 I**	0.21 U	**0.31 I**	**0.75 I**	0.21 U
	SB-86-2.0	11/29/21	**0.38 I**	**2.9**	0.22 U	**2.8 I**	**24**	0.44 U	0.11 U	0.11 U	0.11 U	**1.7**	**0.65**	0.11 U	0.44 U	**0.55**	**1.0 I**	0.22 U	0.11 U	0.22 U	**0.24 I**	**0.23 I**	**0.11 I**	0.22 U	0.11 U	0.22 U	0.22 U	0.22 U	**1.0**	0.22 U
	SB-86-2.5	11/29/21	0.26 U	**4.6**	0.26 U	2.1 U	**47**	0.53 U	0.13 U	0.13 U	0.13 U	**4.5**	**3.3**	0.13 U	0.53 U	**0.18 I**	**1.4 I**	0.26 U	0.13 U	0.26 U	**0.29 I**	**0.55 I**	0.13 U	0.26 U	0.13 U	**0.75 I**	0.26 U	0.26 U	**1.1**	0.26 U
DEPSB-87	SB-87-0.5	11/29/21	**1.3**	**13**	0.22 U	1.7 U	**1.4**	0.43 U	**0.98**	0.11 U	0.11 U	**2.3**	**21**	0.11 U	0.43 U	**1.1**	**2.4**	**1.2**	0.11 U	**0.49 I**	**0.95**	**0.39 I**	**0.13 I**	**0.74 I**	0.11 U	**0.32 I**	**0.25 I**	**0.84 I**	**2.2**	0.22 U
	SB-87-2.0	11/29/21	**0.77 I**	**7.8**	0.23 U	1.8 U	**1.1**	0.45 U	**1.9**	0.11 U	0.11 U	**14**	**57**	0.11 U	0.45 U	**2.0**	**0.85 I**	**0.32 I**	0.11 U	**0.44 I**	**1.1**	**0.34 I**	**0.18 I**	0.23 U	0.11 U	**0.26 I**	0.23 U	0.23 U	**2.3**	0.23 U
	SB-87-2.5	11/29/21	**0.56 I**	**5.3**	0.25 U	2.0 U	**5.3**	0.51 U	**0.22 I**	0.13 U	**0.24 I**	**25**	**13**	0.13 U	0.51 U	**0.18 I**	**0.71 I**	0.25 U	0.13 U	**0.65 I**	**0.95**	**0.71 I**	**0.61**	0.25 U	0.13 U	**0.65 I**	0.25 U	0.25 U	**1.8**	0.25 U
DEPSB-88	SB-88-0.5	11/29/21	**1.4**	**390**	0.21 U	1.7 U	**280**	0.42 U	0.10 U	0.10 U	**0.11 I**	**5.9**	**9.3**	**0.11 I**	0.42 U	**2.4**	**4.0**	**2.7**	**0.50**	0.21 U	**2.6**	**0.97**	**0.88**	**0.99**	**0.14 I**	**0.40 I**	**1.1**	**1.0**	**3.0**	0.21 U
	SB-88-2.0	11/29/21	**2.0**	**170**	0.23 U	1.8 U	**58**	0.46 U	**0.25 I**	0.12 U	**0.52**	**110**	**6.7**	0.12 U	0.46 U	**0.91**	**1.5 I**	**0.72 I**	**0.37 I**	**0.36 I**	**3.2**	**1.3**	**0.79**	**0.35 I**	**0.17 I**	**0.91 I**	**0.27 I**	**0.74 I**	**2.4**	0.23 U
	SB-88-2.5	11/29/21	**1.1 I**	**38**	0.30 U	**15**	**19**	0.60 U	**0.46 I**	0.15 U	**0.43 I**	**43**	**23**	0.15 U	0.60 U	**0.77**	**0.92 I**	**0.94 I**	**0.15 I**	**0.36 I**	**1.2**	**1.6**	**0.70**	0.30 U	0.15 U	**1.5**	0.30 U	**2.0**	**3.7**	0.30 U
DEPSB-89	SB-89-0.5	11/29/21	0.21 U	**3.1**	0.21 U	1.7 U	**0.42 I**	0.42 U	0.11 U	0.11 U	0.11 U	**0.44**	0.11 U	0.11 U	0.42 U	**0.73**	**0.70 I**	**1.9**	0.11 U	0.21 U	**0.30 I**	0.21 U	0.11 U	0.21 U	0.11 U	0.21 U	**0.51 I**	**1.9**	**0.97**	0.21 U
	SB-89-2.0	11/29/21	**0.27 I**	**4.0**	0.22 U	1.8 U	**1.8**	0.44 U	**0.42 I**	0.11 U	0.11 U	**0.71**	**1.0**	0.11 U	0.44 U	**1.9**	**0.70 I**	**1.1**	0.11 U	**0.28 I**	**0.38 I**	0.22 U	**0.20 I**	0.22 U	0.11 U	0.22 U	0.22 U	**0.28 I**	**2.1**	0.22 U
	SB-89-2.5	11/29/21	0.26 U	**10**	0.26 U	2.1 U	**9.1**	0.52 U	**2.2**	0.13 U	0.13 U	**5.9**	**7.9**	0.13 U	0.52 U	**1.1**	**0.61 I**	**0.32 I**	0.13 U	0.26 U	**0.61**	**0.81 I**	**0.29 I**	**0.29 I**	0.13 U	**0.87 I**	0.26 U	0.26 U	**1.2**	0.26 U
DEPSB-90	SB-90-0.5	11/29/21	**0.26 I**	**3.7**	0.22 U	1.8 U	0.22 U	0.44 U	0.11 U	0.11 U	0.11 U	**0.12 I**	0.11 U	0.11 U	**0.45 I**	**0.44**	**0.49 I**	**0.25 I**	0.11 U	**0.29 I**	**0.73**	**0.49 I**	**0.18 I**	**0.43 I**	0.11 U	**0.81 I**	0.22 U	**0.27 I**	**1.4**	0.22 U
	SB-90-2.0	11/29/21	0.23 U	**3.8**	0.23 U	1.9 U	0.23 U	0.46 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.46 U	0.12 U	**0.50 I**	0.23 U	0.12 U	**0.31 I**	**0.34 I**	**0.32 I**	**0.12 I**	**0.37 I**	0.12 U	**0.62 I**	0.23 U	0.23 U	**0.26 I**	0.23 U
	SB-90-2.5	11/29/21	0.27 U	**5.0**	0.27 U	2.2 U	0.27 U	0.55 U	0.14 U	0.14 U	0.14 U	**0.29 I**	0.14 U	0.14 U	0.55 U	0.14 U	0.55 U	0.27 U	0.14 U	0.27 U	**0.37 I**	0.27 U	0.14 U	0.27 U	0.14 U	**0.36 I**	0.27 U	0.27 U	0.27 U	0.27 U
DEPSB-91	SB-91-0.5	11/29/21	0.22 U	**2.3**	0.22 U	1.8 U	0.22 U	0.44 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	**8.3**	0.11 U	**0.68 I**	**0.48 I**	0.11 U	0.22 U	**0.33 I**	0.22 U	0.11 U	**0.30 I**	0.11 U	**0.26 I**	0.22 U	**0.31 I**	**1.3**	0.22 U
	SB-91-2.0	11/29/21	**0.42 I**	**15**	0.23 U	1.9 U	**0.37 I**	0.46 U	0.12 U	0.12 U	**0.24 I**	**4.0**	0.12 U	0.12 U	0.46 U	0.12 U	**0.54 I**	0.23 U	**0.12 I**	0.23 U	**0.83**	0.23 U	0.12 U	**0.49 I**	0.12 U	**0.36 I**	0.23 U	0.23 U	**0.30 I**	0.23 U
	SB-91-2.5	11/29/21	**1.9**	**84**	0.31 U	2.5 U	**0.47 I**	0.62 U	0.15 U	0.15 U	**3.9**	**9.5**	0.15 U	**0.23 I**	**0.70 I**	0.15 U	0.62 U	0.31 U	**0.34 I**	**0.76 I**	**3.5**	**1.0 I**	0.15 U	**2.5**	**0.42 I**	**1.5**	0.31 U	0.31 U	0.31 U	0.31 U
DEPSB-92	SB-92-0.5	11/29/21	**0.99**	**6.0**	0.22 U	1.8 U	**0.64 I**	0.44 U	0.11 U	0.11 U	0.11 U	**0.35 I**	0.11 U	0.11 U	0.44 U	**0.18 I**	**1.2 I**	**0.82 I**	0.11 U	**1.0**	**1.5**	**0.50 I**	**0.20 I**	**0.77 I**	**0.14 I**	**0.60 I**	0.22 U	**0.45 I**	**2.6**	0.22 U
	SB-92-2.0	11/29/21	**1.4**	**110**	0.24 U	**2.8 I**	**7.8**	0.48 U	0.12 U	0.12 U	**0.35 I**	**34**	**0.68**	0.12 U	0.48 U	0.12 U	**0.94 I**	0.24 U	**0.28 I**	**1.0**	**3.4**	**0.97**	**0.98**	**1.1**	**0.22 I**	**1.1**	0.24 U	0.24 U	**0.62 I**	0.24 U
DEPSB-93	SB-93-0.5	11/29/21	**0.55 I**	**2.9**	0.22 U	1.8 U	**0.25 I**	0.45 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.45 U	**0.52**	**1.2 I**	**1.1**	0.11 U	**0.49 I**	**0.41 I**	**0.37 I**	**0.12 I**	**0.33 I**	0.11 U	**0.48 I**	**0.24 I**	**0.44 I**	**2.2**	0.22 U
	SB-93-2.0	11/29/21	**0.34 I**	**7.7**	0.23 U	1.9 U	0.23 U	0.46 U	0.12 U	0.12 U	0.12 U	**0.26 I**	0.12 U	0.12 U	0.46 U	0.12 U	**0.83 I**	0.23 U	0.12 U	**0.24 I**	**0.28 I**	**0.28 I**	0.12 U	**0.54 I**	0.12 U	**0.30 I**	0.23 U	0.23 U	0.23 U	0.23 U
	SB-93-2.5	11/29/21	0.28 U	**8.8**	0.28 U	2.2 U	0.28 U	0.55 U	0.14 U	0.14 U	0.14 U	**2.0**	0.14 U	0.14 U	0.55 U	0.14 U	0.55 U	0.28 U	0.14 U	0.28 U	**0.32 I**	0.28 U	0.14 U	**0.35 I**	0.14 U	**0.32 I**	0.28 U	0.28 U	**0.30 I**	0.28 U
DEPSB-94	SB-94-0.5	11/29/21	**0.80 I**	**61**	0.26 U	**4.5 I**	**14**	0.52 U	0.13 U	0.13 U	**0.43 I**	**38**	**0.82**	0.13 U	0.52 U	**0.20 I**	**0.88 I**	0.26 U	**0.16 I**	**0.52 I**	**1.1**	**0.91 I**	**0.35 I**	**0.45 I**	0.13 U	**1.4**	0.26 U	**5.0**	**2.1**	0.26 U
	SB-94-1.0	11/29/21	**1.5**	**57**	0.28 U	**17**	**39**	0.56 U	0.14 U	0.14 U	**0.90**	**35**	**2.3**	0.14 U	**0.85 I**	**0.17 I**	**1.1 I**	0.28 U	**0.19 I**	**1.0 I**	**1.8**	**1.9**	**0.34 I**	**0.61 I**	**0.14 I**	**3.3**	0.28 U	**1.3**	**1.2**	0.28 U
DEPSB-95	SB-95-0.5	11/29/21	0.23 U	**2.7**	0.23 U	1.8 U	0.23 U	0.46 U	0.11 U	0.11 U	0.11 U	**0.21 I**	**0.19 I**	0.11 U	0.46 U	**0.29 I**	**0.51 I**	**0.57 I**	0.11 U	0.23 U	**0.35 I**	**0.28 I**	0.11 U	0.23 U	0.11 U	**0.42 I**	**0.25 I**	**7.8**	**1.5**	0.23 U
	SB-95-2.0	11/29/21	**1.0 I**	**39**	0.27 U	**33**	**56**	0.53 U	0.13 U	0.13 U	**0.51 I**	**32**	**0.93**	0.13 U	**1.4 I**	**0.18 I**	**1.1 I**	0.27 U	0.13 U	**1.2**	**1.4**	**3.3**	0.13 U	**0.43 I**	**0.14 I**	**4.3**	0.27 U	**1.1**	**0.78 I**	0.27 U
DEPSB-96	SB-96-0.5	11/29/21	**0.77 I**	**11**	0.23 U	1.8 U	**1.8**	0.46 U	0.11 U	0.11 U	0.11 U	**0.82**	**0.16 I**	0.11 U	**0.60 I**	**0.47**	**2.7**	**1.5**	0.11 U	**0.65 I**	**0.70**	**0.81 I**	**0.13 I**	**0.42 I**	0.11 U	**0.99**	**0.49 I**	**3.9**	**1.7**	0.23 U
	SB-96-2.0	11/29/21	0.27 U	**11**	0.27 U	2.1 U	**38**	0.53 U	0.13 U	0.13 U	0.13 U	**2.5**	**0.48 I**	0.13 U	0.53 U	**0.41 I**	**0.91 I**	0.27 U	0.13 U	**0.38 I**	**0.26 I**	**0.70 I**	0.13 U	0.27 U	0.13 U	**1.2**	**0.38 I**	**13**	**0.74 I**	0.27 U
DEPSB-97	SB-97-0.5	12/1/21	**0.28 I**	**1.7**	0.22 U	1.8 U	**2.1 I**	0.44 U	0.11 U	0.11 U	0.11 U	**0.49**	**0.46**	0.11 U	0.44 U	**0.76**	**0.60 I**	**0.85 I**	0.11 U	0.22 U	**0.25 I**	0.22 U	0.11 U	0.22 U	0.11 U	**0.25 I**	0.22 U	**5.4**	**1.1**	0.22 U
	SB-97-2.0	12/1/21	**0.44 I**	**5.2**	0.26 U	2.1 U	**13**	0.52 U	0.13 U	0.13 U	0.13 U	**9.2**	**1.2**	0.13 U	0.52 U	**0.22 I**	**1.1 I**	0.26 U	0.13 U	**0.60 I**	**0.54**	**0.62 I**	**0.76**	0.26 U	0.13 U	**0.75 I**	0.26 U	**0.50 I**	**1.3**	0.26 U
DEPSB-98	SB-98-0.5	12/1/21	**0.40 I**	**5.4**	0.24 U	1.9 U	0.24 U	0.47 U	**0.12 I**	0.12 U	0.12 U	**2.5**	**10**	0.12 U	0.47 U	**0.80**	0.47 U	**0.39 I**	0.12 U	0.24 U	**1.7**	**0.26 I**	0.12 U	**0.25 I**	0.12 U	**0.30 I**	0.24 U	**1.8**	**0.71 I**	0.24 U
	SB-98-2.0	12/1/21	**0.93 I**	**37**	0.28 U	2.2 U	**14**	0.55 U	**0.18 I**	0.14 U	**0.68**	**31**	**5.9**	0.14 U	0.55 U	**0.38 I**	**2.9**	0.28 U	0.14 U	**0.72 I**	**1.7**	**0.61 I**	**1.0**	**0.80 I**	0.14 U	**0.81 I**	0.28 U	**0.52 I**	**1.3**	0.28 U
DEPSB-99	SB-99-0.5	12/1/21	**0.30 I**	**4.4**	0.23 U	1.8 U	**0.32 I**	0.46 U	0.12 U	0.12 U	0.12 U	**1.0**	**1.5**	0.12 U	0.46 U	**0.51**	0.46 U	**0.65 I**	0.12 U	**0.28 I**	**0.51**	**0.31 I**	0.12 U	0.23 U	0.12 U	**0.51 I**	0.23 U	**2.2**	**0.69 I**	0.23 U
	SB-99-2.0	12/1/21	**0.79 I**	**55**	0.26 U	**8.9**	**24**	0.52 U	**0.20 I**	0.13 U	**0.60**	**39**	**21**	0.13 U	0.52 U	**0.58**	**0.87 I**	**0.32 I**	0.13 U	**0.60 I**	**1.5**	**2.5**	**0.30 I**	0.26 U	**0.16 I**	**2.4**	0.26 U	**0.58 I**	**2.5**	0.26 U
DEPSB-100	SB-100-0.5	12/1/21	0.24 U	**2.9**	0.24 U	1.9 U	0.24 U	0.47 U	0.12 U	0.12 U	0.12 U	**1.4**	**0.34 I**	0.12 U	0.47 U	**1.6**	0.47 U	**1.0**	0.12 U	0.24 U	**1.5**	0.24 U	0.12 U	0.24 U	0.12 U	**0.27 I**	**0.28 I**	**2.2**	**0.98**	0.24 U
	SB-100-2.0	12/1/21	**0.84 I**	**60**	0.28 U	**9.0**	**25**	0.55 U	**0.24 I**	0.14 U	**1.2**	**44**	**6.8**	0.14 U	0.55 U	**0.58**	**1.3 I**	0.28 U	**0.15 I**	**0.49 I**	**1.9**	**1.1**	**0.31 I**	**0.31 I**	**0.16 I**	**1.6**	0.28 U	**0.38 I**	**1.3**	0.28 U
DEPSB-101	SB-101-0.5	12/1/21	**0.23 I**	**3.0**	0.22 U	1.7 U	**0.30 I**	0.44 U	0.11 U	0.11 U	0.11 U	**0.21 I**	**0.17 I**	0.11 U	0.44 U	**0.52**	**1.0 I**	**1.4**	0.11 U	**0.29 I**	**0.36 I**	**0.26 I**	0.11 U	**0.29 I**	0.11 U	**0.44 I**	**0.32 I**	**1.4**	**1.6**	0.22 U
	SB-101-2.0	12/1/21	**0.30 I**	**8.9**	0.25 U	2.0 U	**0.43 I**	0.50 U	0.13 U	0.13 U	0.13 U	**3.8**	**0.46 I**	0.13 U	0.50 U	0.13 U	**0.87 I**	**0.32 I**	0.13 U	**0.25 I**	**0.44 I**	**0.33 I**	**0.17 I**	**0.30 I**	0.13 U	**0.49 I**	0.25 U	0.25 U	**1.0 I**	0.25 U
DEPSB-102	SB-102-0.5	12/1/21	**1.7**	**85**	0.29 U	**9.1 I**	**8.3**	0.59 U	**0.18 I**	0.15 U	**0.32 I**	**15**	**5.6**	**0.15 I**	**1.8 I**	**2.3**	**1.3 I**	**1.1 I**	**0.91**	**2.0**	**3.70**	**2.6**	**0.73**	**0.83 I**	**0.20 I**	**6.2**	0.29 U	**4.3**	**2.9**	0.29 U
	SB-102-1.0	12/1/21	**0.78 I**	**60**	0.31 U	**15**	**23**	0.61 U	**0.27 I**	0.15 U	**0.17 I**	**11**	**9.6**	0.15 U	**0.80 I**	**0.24 I**	**0.82 I**	0.31 U	**0.28 I**	**0.65 I**	**1.5**	**2.3**	**0.35 I**	0.31 U	**0.15 U**	**2.0**	0.31 U	**0.44 I**	**0.95 I**	0.31 U

TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPSB-103	SB-103-0.5	12/1/21	**0.48 I**	**1.5**	0.25 U	2.0 U	0.25 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.70 I**	**0.20 I**	**0.95 I**	**1.4**	0.12 U	**0.86 I**	**0.36 I**	**0.62 I**	0.12 U	**0.54 I**	0.12 U	**1.0**	0.25 U	**1.8**	**2.8**	0.25 U
	SB-103-1.0	12/1/21	0.30 U	**3.1**	0.30 U	2.4 U	0.30 U	0.59 U	0.15 U	0.15 U	**0.26 I**	**0.36 I**	0.15 U	0.15 U	0.59 U	0.15 U	0.59 U	0.30 U	0.15 U	0.30 U	**0.47 I**	**0.41 I**	0.15 U	0.30 U	0.15 U	**0.47 I**	0.30 U	0.30 U	**0.81 I**	0.30 U
DEPSB-104	SB-104-0.5	12/1/21	**0.27 I**	**0.83 I**	0.24 U	1.9 U	**0.30 I**	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.22 I**	0.12 U	0.48 U	**0.23 I**	**0.69 I**	**0.84 I**	0.12 U	**0.39 I**	**0.13 I**	**0.32 I**	0.12 U	0.24 U	0.12 U	**0.38 I**	0.24 U	**1.6**	**1.6**	0.24 U
	SB-104-1.5	12/1/21	0.29 U	**6.4**	0.29 U	2.3 U	0.29 U	0.58 U	0.14 U	0.14 U	**0.29 I**	**4.6**	**0.81**	0.14 U	0.58 U	0.14 U	**0.63 I**	0.29 U	0.14 U	0.29 U	**0.92**	0.29 U	0.14 U	**0.32 I**	0.14 U	**0.37 I**	0.29 U	0.29 U	**0.98 I**	0.29 U
DEPSB-105	SB-105-0.5	12/1/21	0.23 U	**0.97**	0.23 U	1.9 U	**0.31 I**	0.46 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.18 I**	0.12 U	0.46 U	**0.12 I**	**0.70 I**	**0.88 I**	0.12 U	0.23 U	**0.16 I**	0.23 U	0.12 U	0.23 U	0.12 U	**0.27 I**	0.23 U	**2.1**	**1.7**	0.23 U
	SB-105-2.0	12/1/21	**0.62 I**	**31**	0.23 U	1.9 U	**3.6**	0.47 U	0.12 U	0.12 U	**0.29 I**	**70**	**0.38 I**	0.12 U	0.47 U	0.12 U	**0.75 I**	0.23 U	0.12 U	**0.66 I**	**1.4**	**0.57 I**	**0.60**	**0.46 I**	0.12 U	**0.46 I**	0.23 U	0.23 U	**0.61 I**	0.23 U
DEPSB-106	SB-106-0.5	12/1/21	**0.36 I**	**3.3**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.53 I**	0.12 U	**0.82 I**	**0.33 I**	0.12 U	**0.35 I**	**0.22 I**	**0.33 I**	0.12 U	**0.30 I**	0.12 U	**0.54 I**	0.24 U	**1.5**	**1.2**	0.24 U
	SB-106-1.5	12/1/21	**0.37 I**	**18**	0.28 U	2.2 U	**0.77 I**	0.55 U	0.14 U	0.14 U	**0.28 I**	**1.3**	0.14 U	0.14 U	0.55 U	0.14 U	**0.63 I**	0.28 U	0.14 U	**0.42 I**	**0.66**	**0.41 I**	0.14 U	**0.38 I**	0.14 U	**0.42 I**	0.28 U	**0.31 I**	**0.61 I**	0.28 U
DEPSB-107	SB-107-0.5	12/1/21	**0.83 I**	**16**	0.26 U	2.1 U	**0.39 I**	0.52 U	0.13 U	0.13 U	**0.14 I**	**2.2**	**1.8**	0.13 U	**1.2 I**	**5.3**	**1.1 I**	**1.8**	**0.28 I**	**1.3**	**3.0**	**1.6**	**0.93**	**0.53 I**	0.13 U	**2.2**	0.26 U	**0.53 I**	**2.1**	0.26 U
	SB-107-2.0	12/1/21	**0.34 I**	**4.9**	0.27 U	2.1 U	**1.0 I**	0.53 U	0.13 U	0.13 U	0.13 U	**3.4**	**1.7**	0.13 U	0.53 U	**1.8**	**0.77 I**	0.27 U	0.13 U	**0.41 I**	**0.86**	**0.80 I**	**1.2**	**0.39 I**	0.13 U	**0.84 I**	0.27 U	0.27 U	**0.73 I**	0.27 U
	SB-107-2.5	12/1/21	**0.39 I**	**7.2**	0.27 U	**2.7 I**	**1.2**	0.54 U	0.13 U	0.13 U	0.13 U	**36**	**0.45 I**	0.13 U	0.54 U	**0.23 I**	**0.81 I**	0.27 U	0.13 U	**0.45 I**	**0.63**	**0.84 I**	**0.36 I**	**0.36 I**	0.13 U	**1.3**	0.27 U	0.27 U	**0.65 I**	0.27 U
DEPSB-108	SB-108-0.5	12/1/21	**0.35 I**	**3.6**	0.23 U	1.9 U	0.23 U	0.47 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	**0.49 I**	**0.37 I**	**0.47 I**	**0.38 I**	0.12 U	**0.33 I**	**0.52**	**0.47 I**	**0.13 I**	**0.33 I**	0.12 U	**0.96**	0.23 U	**0.36 I**	**1.2**	0.23 U
	SB-108-2.0	12/1/21	0.26 U	**2.0**	0.26 U	2.1 U	0.26 U	0.51 U	0.13 U	0.13 U	0.13 U	**0.30 I**	0.13 U	0.13 U	**0.55 I**	0.13 U	0.51 U	0.26 U	0.13 U	0.26 U	**0.25 I**	0.26 U	**0.17 I**	**0.44 I**	0.13 U	**0.29 I**	0.26 U	0.26 U	0.26 U	0.26 U
	SB-108-2.5	12/1/21	0.27 U	**1.4**	0.27 U	2.2 U	0.27 U	0.54 U	0.14 U	0.14 U	0.14 U	**1.3**	0.14 U	0.14 U	0.54 U	0.14 U	0.54 U	0.27 U	0.14 U	0.27 U	**0.42 I**	0.27 U	0.14 U	**0.61 I**	0.14 U	**0.39 I**	0.27 U	0.27 U	0.27 U	0.27 U
DEPSB-109	SB-109-0.5	12/1/21	0.22 U	**2.0**	0.22 U	1.8 U	0.22 U	0.45 U	0.11 U	0.11 U	0.11 U	**0.13 I**	0.11 U	0.11 U	0.45 U	**0.94**	**0.55 I**	**0.90**	0.11 U	0.22 U	**0.48**	**0.33 I**	0.11 U	0.22 U	0.11 U	**0.41 I**	0.22 U	**0.33 I**	**1.8**	0.22 U
	SB-109-2.0	12/1/21	**0.55 I**	**3.1**	0.26 U	2.1 U	**1.1**	0.52 U	0.13 U	0.13 U	0.13 U	**1.1**	**0.23 I**	0.13 U	0.52 U	**0.85**	**1.2 I**	0.26 U	0.13 U	**0.63 I**	**0.54**	**0.73 I**	**0.19 I**	**0.38 I**	0.13 U	**1.2**	0.26 U	0.26 U	**1.5**	0.26 U
DEPSB-110	SB-110-0.5	12/1/21	**0.93 I**	**30**	0.29 U	2.3 U	0.29 U	0.58 U	0.14 U	0.14 U	0.14 U	**0.62**	**0.19 I**	**0.17 I**	**1.2 I**	**1.6**	**1.3 I**	**0.92 I**	**0.21 I**	**1.2**	**3.3**	**1.4**	**0.40 I**	**1.3**	**0.19 I**	**2.7**	0.29 U	**0.84 I**	**3.9**	0.29 U
	SB-110-2.0	12/1/21	**0.52 I**	**16**	0.27 U	**11**	**0.40 I**	0.54 U	0.14 U	0.14 U	**0.52 I**	**17**	0.14 U	**0.19 I**	**0.55 I**	0.14 U	0.54 U	0.27 U	**0.26 I**	**0.44 I**	**1.7**	**1.1**	0.14 U	0.27 U	0.14 U	**1.6**	0.27 U	0.27 U	0.27 U	0.27 U
DEPSB-111	SB-111-0.5	12/15/21	0.24 U	**5.1**	0.24 U	1.9 U	0.24 U	0.47 U	0.12 U	0.12 U	0.12 U	**0.22 I**	0.12 U	0.12 U	0.47 U	0.12 U	0.47 U	0.24 U	0.12 U	0.24 U	**0.15 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	SB-111-2.0	12/15/21	0.24 U	**1.3**	0.24 U	1.9 U	0.24 U	0.48 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.48 U	0.12 U	0.48 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	SB-111-3.5	12/15/21	0.25 U	**0.61 I**	0.25 U	2.0 U	0.25 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	0.12 U	0.49 U	0.25 U	0.12 U	0.25 U	**0.19 I**	0.25 U	0.12 U	0.25 U	0.12 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
DEPSB-112	SB-112-0.5	12/15/21	**0.36 I**	**14**	0.27 U	2.2 U	**0.98 I**	0.55 U	0.14 U	0.14 U	**0.21 I**	**2.2**	**4.8**	**0.21 I**	0.55 U	**0.31 I**	0.55 U	**0.38 I**	0.14 U	**0.30 I**	**0.91**	**0.69 I**	0.14 U	0.27 U	**0.16 I**	**0.44 I**	**0.28 I**	**0.30 I**	0.27 U	0.27 U
	SB-112-2.0	12/15/21	**0.44 I**	**13**	0.28 U	2.3 U	0.28 U	0.57 U	0.14 U	0.14 U	**0.31 I**	**2.0**	**2.9**	0.14 U	0.57 U	0.14 U	0.57 U	0.28 U	0.14 U	**0.45 I**	**1.1**	**0.70 I**	0.14 U	**0.45 I**	0.14 U	**0.56 I**	0.28 U	0.28 U	0.28 U	0.28 U
DEPSB-113	SB-113-0.5	12/15/21	**1.8**	**2.5**	**1.0**	**130**	**7.8**	0.50 U	0.13 U	0.13 U	**0.88**	**9.3**	**23**	**1.9**	**0.92 I**	**2.2**	0.50 U	**4.0**	**0.28 I**	**1.4**	**13**	**8.3**	0.13 U	0.25 U	**2.3**	**1.5**	**1.0**	**21**	0.25 U	**0.98 I**
	SB-113-2.0	12/15/21	**0.50 I**	**1.9**	0.28 U	**4.8 I**	**2.1**	0.55 U	0.14 U	0.14 U	**0.22 I**	**6.5**	**11**	**0.46 I**	0.55 U	**0.31 I**	0.55 U	**0.98 I**	0.14 U	0.28 U	**0.81**	**1.4**	0.14 U	0.28 U	**0.29 I**	**0.71 I**	**0.34 I**	**3.4**	0.28 U	0.28 U

TABLE 2
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPSB-114	SB-114-0.5	3/7/22	**0.44 I**	**5.9**	0.34 U	2.7 U	0.34 U	0.67 U	0.17 U	0.17 U	**0.52 I**	**4.0**	**2.2**	**0.54 I**	0.67 U	**3.5**	0.67 U	**0.48 I**	**0.54 I**	0.34 U	**12**	**1.4**	**2.2**	0.34 U	**0.92**	**1.5**	0.34 U	**0.76 I**	**2.5**	0.34 U
	SB-114-2.0	3/7/22	0.26 U	**6.4**	0.26 U	2.1 U	0.26 U	0.53 U	0.13 U	0.13 U	0.13 U	**0.54**	**0.37 I**	0.13 U	0.53 U	0.13 U	0.53 U	0.26 U	0.13 U	0.26 U	**0.83**	0.26 U	**0.31 I**	0.26 U	0.13 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
	SB-114-2.5	3/7/22	0.29 U	**4.1**	0.29 U	2.3 U	0.29 U	0.58 U	0.14 U	0.14 U	0.14 U	**0.59**	0.14 U	0.14 U	0.58 U	0.14 U	0.58 U	0.29 U	0.14 U	0.29 U	**0.46 I**	0.29 U	0.14 U	0.29 U	0.14 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
DEPSB-115	SB-115-0.5	3/7/22	0.24 U	**0.92 I**	0.24 U	1.9 U	0.24 U	0.47 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.47 U	0.12 U	0.47 U	0.24 U	0.12 U	0.24 U	**0.12 U**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
	SB-115-2.0	3/7/22	0.27 U	**0.30 I**	0.27 U	2.1 U	0.27 U	0.54 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.54 U	0.13 U	0.54 U	0.27 U	0.13 U	0.27 U	**0.27 I**	0.27 U	0.13 U	0.27 U	0.13 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
	SB-115-4.0	3/7/22	0.24 U	0.24 U	0.24 U	2.0 U	0.24 U	0.49 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.49 U	0.12 U	0.49 U	0.24 U	0.12 U	0.24 U	**0.20 I**	0.24 U	0.12 U	0.24 U	0.12 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U

Notes:
Provisional SCTL - FDEP Provisional Soil Cleanup Target Level
All results are reported in micrograms per kilogram (µg/kg)
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
Highlighted font indicates constituent concentration was reported above the FDEP Provisional Soil Cleanup Target Level.
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.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HODA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid	PFPrS	Perfluoropropanesulfonic acid

TABLE 3
SUMMARY OF VOC CONSTITUENTS AND TRPH IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	Methyl-tert-butyl ether	TRPH
Leachability Based on Groundwater Criteria (mg/kg)			**0.007**	**0.6**	**0.5**	**0.2**	**0.09**	**340**
Direct Exposure Residential (mg/kg)			**1.2**	**1,500**	**7,500**	**130**	**4,400**	**460**
Direct Exposure Commercial/Industrial (mg/kg)			**1.7**	**9,200**	**60,000**	**700**	**24,000**	**2,700**
DEPSB-107	SB-107-0.5	12/1/21	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	43 U
	SB-107-2.0	12/1/21	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	42 U
	SB-107-2.5	12/1/21	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	43 U
DEPSB-108	SB-108-0.5	12/1/21	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	40 U
	SB-108-2.0	12/1/21	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	41 U
	SB-108-2.5	12/1/21	0.0023 U	0.0023 U	0.0023 U	0.0023 U	0.0023 U	43 U
DEPSB-109	SB-109-0.5	12/1/21	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	38 U
	SB-109-2.0	12/1/21	0.0022 U	0.0022 U	0.0022 U	0.0022 U	0.0022 U	41 U
DEPSB-110	SB-110-0.5	12/1/21	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	45 U
	SB-110-2.0	12/1/21	0.0024 U	0.0024 U	0.0024 U	0.0024 U	0.0024 U	43 U

Notes:
Provisional SCTL - FDEP Provisional Soil Cleanup Target Level
All results are reported in milligrams per kilogram (mg/kg)
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
Highlighted font indicates constituent concentration was reported above the Provisional FDEP Soil Cleanup Target Level.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

TABLE 4
SUMMARY OF SVOC CONSTITUENTS IN SOIL

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (g,h,i) perylene	Fluoranthene	Fluorene	Phenanthrene	Pyrene	Benzo (a) pyrene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	Benzo (a) pyrene equivalent
Leachability Based on Groundwater Criteria (mg/kg)			**1.2**	**3.1**	**8.5**	**2.1**	**27**	**2,500**	**32,000**	**1,200**	**160**	**250**	**880**	**8**	**0.8**	**2.4**	**24**	**77**	**0.7**	**6.6**	**
Direct Exposure Residential (mg/kg)			**55**	**200**	**210**	**2,400**	**1,800**	**21,000**	**2,500**	**3,200**	**2,600**	**2,200**	**2,400**	**0.1**	#	#	#	#	#	#	**0.1**
Direct Exposure Commercial/Industrial (mg/kg)			**300**	**1,800**	**2,100**	**20,000**	**20,000**	**300,000**	**52,000**	**59,000**	**33,000**	**36,000**	**45,000**	**0.7**	#	#	#	#	#	#	**0.7**
DEPSB-107	SB-107-0.5	12/1/21	0.0081 U	NM	NM	0.0081 U	0.0081 U	0.0081 U	0.0081 U	0.0081 U	0.0081 U	0.0081 U	0.0081 U	0.0081 U	0.0081 U	**0.022 I**	0.0081 U	0.0081 U	0.0081 U	0.0081 U	0.0
	SB-107-2.0	12/1/21	0.0080 U	NM	NM	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	**0.016 I**	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0
	SB-107-2.5	12/1/21	0.0080 U	NM	NM	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0
DEPSB-108	SB-108-0.5	12/1/21	0.0075 U	NM	NM	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	**0.017 I**	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0
	SB-108-2.0	12/1/21	0.0077 U	NM	NM	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0077 U	0.0
	SB-108-2.5	12/1/21	0.0080 U	NM	NM	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	0.0
DEPSB-109	SB-109-0.5	12/1/21	0.0070 U	NM	NM	0.0070 U	0.0070 U	0.0070 U	0.0070 U	0.0070 U	0.0070 U	0.0070 U	0.0070 U	0.0070 U	0.0070 U	**0.017 I**	0.0070 U	0.0070 U	0.0070 U	0.0070 U	0.0
	SB-109-2.0	12/1/21	0.0076 U	NM	NM	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0076 U	0.0
DEPSB-110	SB-110-0.5	12/1/21	0.0085 U	NM	NM	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0085 U	0.0
	SB-110-2.0	12/1/21	0.0082 U	NM	NM	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0082 U	0.0

Notes:
Provisional SCTL - FDEP Provisional Soil Cleanup Target Level
All results are reported in milligrams per kilogram (mg/kg)
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
Highlighted font indicates constituent concentration was reported above the Provisional FDEP Soil Cleanup Target Level.
NM - not measured
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

TABLE 5
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SEDIMENT

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Rt	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SCTL - Leachability (µg/kg)			**2**	**7**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Residential (µg/kg)			**1,300**	**1,300**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Provisional SCTL - Industrial (µg/kg)			**25,000**	**25,000**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SED-1	SED-1	11/30/21	0.30 U	**3.9**	0.30 U	**2.9 I**	**3.4**	0.61 U	0.15 U	0.15 U	0.19 U	**0.69 I**	**0.40 I**	0.15 U	0.61 U	0.15 U	**1.5 I**	**2.5**	0.15 U	0.30 U	0.15 U	0.30 U	0.15 U	0.30 U	0.15 U	**0.47 I**	**3.0**	**1.8**	**1.1 I**	0.30 U
SED-2	SED-2	11/30/21	0.36 U	**11**	0.36 U	2.8 U	0.36 U	0.71 U	0.18 U	0.18 U	0.18 U	**0.28 I**	0.18 U	0.18 U	0.71 U	0.18 U	0.71 U	**0.73 I**	0.18 U	0.36 U	**1.7**	0.36 U	0.18 U	0.36 U	0.18 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
SED-3	SED-3	11/30/21	0.28 U	0.28 U	0.28 U	2.3 U	0.28 U	0.56 U	0.14 U	0.14 U	0.16 U	0.16 U	0.14 U	0.14 U	0.56 U	0.14 U	0.56 U	0.28 U	0.14 U	0.28 U	**0.29 I**	**0.67 I**	0.14 U	0.28 U	0.14 U	**0.93 I**	0.28 U	0.28 U	**0.33 I**	0.28 U
SED-4	SED-4	11/30/21	0.32 U	**3.2**	0.32 U	2.6 U	0.32 U	0.65 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	**0.33 I**	0.65 U	0.16 U	0.65 U	0.32 U	0.16 U	0.32 U	**2.0**	0.32 U	0.16 U	0.32 U	**0.35 I**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
SED-5	SED-5	11/30/21	**6.1**	**870**	0.66 U	**43**	**41**	1.3 U	**0.49 I**	0.33 U	**3.6**	**130**	**31**	**1.2 I**	**1.5 I**	**7.6**	**6.3**	**6.8**	**3.2**	**3.5**	**19**	**7.5**	**3.2**	**3.4**	**1.8**	**6.4**	**4.9**	0.66 U	**14**	0.66 U
SED-6	SED-6	11/30/21	0.47 U	**42**	0.47 U	3.7 U	**1.1 I**	0.93 U	0.23 U	0.23 U	0.23 U	**4.8**	**1.1**	0.23 U	0.93 U	**0.79 I**	0.93 U	**2.2**	0.23 U	0.47 U	**1.6**	**0.53 I**	0.23 U	0.47 U	0.23 U	**0.59 I**	**0.60 I**	**2.4**	**1.9**	0.47 U
SED-7	SED-7	11/30/21	0.35 U	**0.41 I**	0.35 U	2.8 U	0.35 U	0.70 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.70 U	0.17 U	0.70 U	0.35 U	0.17 U	0.35 U	0.17 U	0.35 U	0.17 U	0.35 U	0.17 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
SED-8	SED-8	11/30/21	0.36 U	**1.0 I**	0.36 U	2.9 U	0.36 U	0.72 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.72 U	0.18 U	0.72 U	0.36 U	0.18 U	0.36 U	0.18 U	0.36 U	0.18 U	0.36 U	0.18 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
SED-8	SED-8	12/15/21	0.35 U	0.35 U	0.35 U	2.8 U	0.35 U	0.70 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.70 U	0.17 U	0.70 U	0.35 U	0.17 U	0.35 U	0.17 U	0.35 U	0.17 U	0.35 U	0.17 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
SED-9	SED-9	11/30/21	**1.7 I**	**280**	0.45 U	**9.7 I**	**22**	0.90 U	**0.80 I**	0.23 U	**1.3**	**89**	**14**	**0.31 I**	**0.90 U**	**4.0**	**2.6 I**	**6.7**	**1.3**	**1.1 I**	**7.9**	**2.2**	**1.7**	**1.9**	**0.54 I**	**1.8**	**3.4**	**6.6**	**9.6**	0.45 U
SED-10	SED-10	11/30/21	**4.1**	**630**	0.41 U	**54 I**	**180**	0.81 U	**1.1**	0.20 U	**0.82**	**60**	**54**	**1.1**	**1.6 I**	**8.0**	**3.4**	**2.0**	**3.0**	**1.4 I**	**15**	**5.7**	**5.5**	**1.0 I**	**1.5**	**4.6**	**1.4 I**	**2.7**	**22**	**0.96 I**
SED-11	SED-11	11/30/21	**15**	**570**	1.6 U	13 U	1.6 U	3.2 U	0.79 U	0.79 U	**7.2**	**7.2**	0.79 U	**26**	**6.1 I**	0.79 U	3.2 U	1.6 U	**12**	**19**	**220**	**46**	0.79 U	**4.6 I**	**39**	**26**	1.6 U	1.6 U	**2.4 I**	**8.1**
SED-12	SED-12	11/30/21	0.30 U	**0.39 I**	0.30 U	2.4 U	0.30 U	0.59 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.59 U	0.15 U	0.59 U	0.30 U	0.15 U	0.30 U	**0.21 I**	0.30 U	0.15 U	0.30 U	0.15 U	**0.72 I**	0.30 U	0.30 U	0.30 U	0.30 U
SED-13	SED-13	11/30/21	**0.35 I**	**3.1**	0.27 U	2.2 U	**1.4**	0.55 U	0.14 U	0.14 U	0.14 U	**2.3**	**0.82**	0.14 U	0.55 U	**0.17 I**	**1.7 I**	**0.48 I**	0.14 U	**0.48 I**	**0.35 I**	**0.54 I**	**0.14 I**	0.27 U	0.14 U	**0.84 I**	0.27 U	0.27 U	**1.1 I**	0.27 U
SED-14	SED-14	11/30/21	**1.6 I**	**16**	0.42 U	3.4 U	0.42 U	0.84 U	0.21 U	0.21 U	**0.22 I**	0.21 U	0.21 U	**4.6**	**2.3 I**	0.21 U	0.84 U	0.42 U	**0.23 I**	**1.1 I**	**7.1**	**2.4**	0.21 U	**0.46 I**	**3.3**	**4.2**	0.42 U	0.42 U	0.42 U	**1.2 I**
SED-15	SED-15	3/8/22	**2.4 U**	**12**	2.4 U	19 U	2.4 U	4.8 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.8 U	1.2 U	4.8 U	2.4 U	1.2 U	2.4 U	1.2 U	2.4 U	1.2 U	2.4 U	1.2 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U

Notes:
Provisional SCTL - FDEP Provisional Soil Cleanup Target Level
All results are reported in micrograms per kilogram (µg/kg)
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
Highlighted font indicates constituent concentration was reported above the Provisional FDEP Soil Cleanup Target Level.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.

PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
4:2 FTS	4:2 Fluorotelomer sulfonate
6:2 FTS	6:2 Fluorotelomer sulfonate
8:2 FTS	8:2 Fluorotelomer sulfonate
HODA	Hexafluoropropylene oxide dimer acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid
FBSA	Perfluoro-1-butane sulfonamide
FHxSA	Perfluoro-1-hexane sulfonamide
FOSA	Perfluoro-1-octane sulfonamide
PFBS	Perfluorobutanesulfonic acid
PFBA	Perfluorobutanoic acid
PFDS	Perfluorodecanesulfonic acid
PFDA	Perfluorodecanoic acid
PFDoA	Perfluorododecanoic acid
PFHpS	Perfluoroheptanesulfonic acid
PFHpA	Perfluoroheptanoic acid
PFHxS	Perfluorohexanesulfonic acid
PFHxA	Perfluorohexanoic acid
PFNS	Perfluorononanesulfonic acid
PFNA	Perfluorononanoic acid
PFPeS	Perfluoropentanesulfonic acid
PFPeA	Perfluoropentanoic acid
PFTeA	Perfluorotetradecanoic acid
PFTriA	Perfluorotridecanoic acid
PFUnA	Perfluoroundecanoic acid
PFPrS	Perfluoropropanesulfonic acid

TABLE 6
SUMMARY OF DETECTED PFAS CONSTITUENTS IN SURFACE WATER

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional SWSL (Human Health)			**500**	**10**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ecological (Freshwater)			**1,300,000**	**37,000**																										
Ecological (Marine)			**NOT DETERMINED**	**13,000**																										
SW-1	SW-1	6/23/21	**100**	**240**	2.0 U	**270**	**33**	4.0 U	0.80 U	0.80 U	**15**	**32**	**1.3 I**	**27**	**180**	0.40 U	**18**	2.0 U	**7.8**	**180**	**150**	**320**	0.40 U	**25**	**31**	**720**	2.0 U	2.0 U	**3.9 I**	NM
SW-2	SW-2	6/23/21	**77**	**1,200**	2.0 U	**280**	**29**	4.0 U	0.80 U	0.80 U	**69**	**260**	**3.3**	**47**	**100**	0.40 U	**8.3 I**	2.0 U	**18**	**110**	**420**	**290**	0.40 U	**27**	**53**	**300**	2.0 U	2.0 U	**7.5 I**	NM
SW-3	SW-3	11/30/21	**33**	**340**	2.0 U	**55 I**	2.0 U	4.0 U	0.80 U	0.80 U	**18**	**7.6**	0.40 U	**48**	**35**	0.40 U	4.0 U	2.0 U	**6.9**	**45**	**210**	**100**	0.40 U	**12**	**41**	**140**	2.0 U	2.0 U	2.0 U	**14 I**
SW-4	SW-4	11/30/21	**35**	**330**	2.0 U	**61 I**	2.0 U	4.0 U	0.80 U	0.80 U	**14 I**	**6.2 I**	0.40 U	**85**	**48**	0.40 U	4.0 U	2.0 U	**6.1**	**51**	**270**	**150**	0.40 U	**10**	**69**	**200**	2.0 U	2.0 U	2.0 U	**39**
	DUP-SW-4	11/30/21	**35**	**380**	2.0 U	**57 I**	2.0 U	4.0 U	0.80 U	0.80 U	**12 I**	**6.1 I**	0.40 U	**91**	**49**	0.40 U	4.0 U	2.0 U	**7.2**	**61**	**300**	**150**	0.40 U	**12**	**75**	**200**	2.0 U	2.0 U	2.0 U	**36**
SW-5	SW-5	11/30/21	**310**	**7,200**	**4.6 I**	**3,000 I**	**670**	4.0 U	0.80 U	0.80 U	**270**	**2,100**	**17**	**250**	**310**	0.40 U	**40**	2.0 U	**97**	**500**	**1,800**	**980**	**6.1**	**150**	**160**	**1,400**	2.0 U	2.0 U	**16**	**110**
SW-6	SW-6	11/30/21	**96**	**1,200**	2.0 U	**230 I**	**23**	4.0 U	0.80 U	0.80 U	**86**	**350**	**1.9**	**48**	**89**	0.40 U	**9.0 I**	2.0 U	**16**	**100**	**410**	**280**	**1.0 I**	**25**	**56**	**260**	2.0 U	2.0 U	**5.2 I**	**15 I**
SW-7	SW-7	11/30/21	**12**	**42**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**1.5 I**	**2.5**	0.40 U	**3.2**	**18**	0.40 U	4.0 U	2.0 U	0.80 U	**22**	**18**	**30**	0.40 U	**4.4 I**	**3.0**	**48**	2.0 U	2.0 U	2.0 U	4.0 U
SW-8	SW-8	11/30/21	**11**	**42**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**1.4 I**	**2.5**	0.40 U	**3**	**17**	0.40 U	4.0 U	2.0 U	0.80 U	**22**	**18**	**31**	0.40 U	**3.7 I**	**2.9**	**48**	2.0 U	2.0 U	2.0 U	4.0 U
SW-9	SW-9	11/30/21	**530**	**6,700**	**5.4 I**	**3,400**	**400**	4.0 U	0.80 U	0.80 U	**820**	**4,300**	**43**	**170**	**450**	**0.66 I**	**39**	**2.4 I**	**150**	**690**	**2,000**	**1,400**	**5.1**	**140**	**210**	**1,900**	2.0 U	2.0 U	**17**	**52**
SW-10	SW-10	11/30/21	**820**	**14,000**	**17**	**15,000**	**3,500**	4.0 U	**3.3**	0.80 U	**580**	**6,000**	**120**	**320**	**870**	**3.7**	**120**	2.0 U	**320 I**	**980**	**3,000**	**2,200**	**27**	**240**	**280**	**3,700**	2.0 U	2.0 U	**92**	**140**
	DUP-SW-10	11/30/21	**840**	**13,000**	**18**	**13,000**	**3,400**	4.0 U	**3.7**	0.80 U	**570**	**6,200**	**120**	**310**	**850**	**3.6**	**130**	2.0 U	**300 I**	**990**	**2,800**	**2,000**	**28**	**210**	**300**	**4,000**	2.0 U	2.0 U	**91**	**170**
SW-11	SW-11	11/30/21	**130**	**1,600**	**11**	**110**	2.0 U	4.0 U	0.80 U	0.80 U	**130**	**12**	0.40 U	**2,200**	**550**	0.40 U	4.0 U	2.0 U	**180**	**420**	**6,400**	**2,000**	0.40 U	**17**	**1,200**	**1,500**	2.0 U	2.0 U	2.0 U	**1,000**
SW-12	SW-12	3/8/22	**2.0 I**	**12**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**1.7**	**6.4 I**	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	**6.7**	**3.5 I**	0.40 U	2.0 U	**1.1 I**	**4.5 I**	2.0 U	2.0 U	2.0 U	4.0 U
	DUP-SW-12	3/8/22	**2.0 I**	**12**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**1.7**	**6.3 I**	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	**5.8**	**3.9 I**	0.40 U	2.0 U	**1.1 I**	**4.8 I**	2.0 U	2.0 U	2.0 U	4.0 U

Notes:
Provisional SWSL - FDEP Provisional Surface Water Screening Level
All results are reported in nanograms per liter (ng/L)
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
Highlighted font indicates constituent concentration was reported above the Provisional FDEP Surface Water Screening Level for human health.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
NM - Not Measured

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HODA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid	PFPrS	Perfluoropropanesulfonic acid

TABLE 7
GROUNDWATER ELEVATION SUMMARY

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

WELL DESIGNATION	FSCJ-TMW-1S			FSCJ-TMW-2S			FSCJ-TMW-2SR			FSCJ-TMW-2D			FSCJ-TMW-3S			FSCJ-TMW-4S			FSCJ-TMW-4SR		
DIAMETER	2	in		2	in		1.25	in		2	in		2	in		2	in		2	in	
WELL DEPTH	12	ft		12	ft		11	ft		59	ft		12	ft		11	ft		11	ft	
SCREEN INTERVAL	7 - 12	ft		7 - 12	ft		1 - 11	ft		49 - 59	ft		7 - 12	ft		1 - 11	ft		1 - 11	ft	
TOC ELEVATION[1]	38.58	ft		38.79	ft		38.75	ft		38.54	ft		37.93	ft		54.74	ft		39.23	ft	
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
6/23/2021	35.82	2.76		Abandoned			35.85	2.90		31.88	6.66		35.59	2.34		Abandoned			36.51	2.72	
4/4/2022	35.74	2.84					35.70	3.05		33.35	5.19		35.83	2.10					36.57	2.66	

WELL DESIGNATION	FSCJ-TMW-4D			FSCJ-TMW-4DR			FSCJ-TMW-5S			FSCJ-TMW-5SR			FSCJ-TMW-6S			FSCJ-TMW-6D			FSCJ-TMW-7S		
DIAMETER	2	in		2	in		2	in		1.25	in		1.25	in		2	in		1.25	in	
WELL DEPTH	60	ft		60	ft		11	ft		12	ft		11	ft		60	ft		11	ft	
SCREEN INTERVAL	50 - 60	ft		55 - 60	ft		1 - 11	ft		2 - 12	ft		1 - 11	ft		50 - 60	ft		1 - 11	ft	
TOC ELEVATION[1]	54.74	ft		39.69	ft		51.63	ft		38.31	ft		37.77	ft		37.66	ft		51.63	ft	
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
6/23/2021	Abandoned			31.68	8.01		Well Damaged			36.73	1.58		36.20	1.57		31.63	6.03		Abandoned		
4/4/2022				32.80	6.89					NM	NM		36.05	1.72		32.87	4.79				

WELL DESIGNATION	FSCJ-TMW-7SR			FSCJ-TMW-8S			FSCJ-TMW-9S			FSCJ-TMW-10S			FSCJ-TMW-11S			FSCJ-TMW-12S			FSCJ-TMW-13S		
DIAMETER	1.25	in		1.25	in		1.25	in		1.25	in		1.25	in		1.25	in		1.25	in	
WELL DEPTH	12	ft		11	ft		11	ft		12	ft		12	ft		11	ft		11	ft	
SCREEN INTERVAL	2 - 12	ft		1 - 11	ft		1 - 11	ft		2 - 12	ft		2 - 12	ft		1 - 11	ft		1 - 11	ft	
TOC ELEVATION[1]	38.12	ft		38.57	ft		38.95	ft		38.49	ft		38.36	ft		37.71	ft		36.40	ft	
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
6/23/2021	Well Not Found			35.36	3.21		33.06	5.89		35.69	2.80		36.35	2.01		36.31	1.40		34.82	1.58	
4/4/2022	35.50	2.62		35.26	3.31		34.23	4.72		35.81	2.68		37.14	1.22		37.08	0.63		34.87	1.53	

WELL DESIGNATION	FSCJ-TMW-14S			FSCJ-TMW-15S			FSCJ-TMW-16S			FSCJ-TMW-17S			FSCJ-TMW-18S			FSCJ-TMW-19S			FSCJ-TMW-20S		
DIAMETER	1.25	in		1.25	in		1.5	in		1.5	in		1.5	in		1.5	in		1.5	in	
WELL DEPTH	11	ft		11	ft		12	ft		11	ft		11	ft		12	ft		12	ft	
SCREEN INTERVAL	1 - 11	ft		1 - 11	ft		2 - 12	ft		1 - 11	ft		1 - 11	ft		2 - 12	ft		2 - 12	ft	
TOC ELEVATION[1]	38.00	ft		39.44	ft		38.20	ft		38.63	ft		37.78	ft		36.47	ft		38.41	ft	
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
6/23/2021	34.26	3.74		37.23	2.21		36.68	1.52		36.55	2.08		35.83	1.95		NM	< 0.5		34.93	3.48	
4/4/2022	35.09	2.91		36.82	2.62		37.30	0.90		37.82	0.81		36.88	0.90		NM	NM		35.35	3.06	

TABLE 7
GROUNDWATER ELEVATION SUMMARY

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

WELL DESIGNATION	DEPMW-1S			DEPMW-2S			DEPMW-3S			DEPMW-4S			DEPMW-5S			DEPMW-6S			DEPMW-7S		
DIAMETER		0.75	in		0.75	in		0.75	in		0.75	in		0.75	in		0.75	in		0.75	in
WELL DEPTH		12	ft		12	ft		12	ft		12	ft		12	ft		12	ft		12	ft
SCREEN INTERVAL		2 - 12	ft		2 - 12	ft		2 - 12	ft		2 - 12	ft		2 - 12	ft		2 - 12	ft		2 - 12	ft
TOC ELEVATION[1]		38.28	ft		39.52	ft		38.86	ft		38.51	ft		38.81	ft		38.13	ft		38.36	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
4/4/2022	36.38	1.90		37.93	1.59		36.61	2.25		36.83	1.68		36.89	1.92		36.45	1.68		36.01	2.35	
WELL DESIGNATION	DEPMW-8S			DEPMW-9S			DEPMW-10S			DEPMW-1D			DEPMW-2D			DEPMW-3D			DEPMW-4D		
DIAMETER		0.75	in		0.75	in		0.75	in		2	in		2	in		2	in		2	in
WELL DEPTH		12	ft		12	ft		12	ft		50	ft		49	ft		49	ft		49.5	ft
SCREEN INTERVAL		2 - 12	ft		2 - 12	ft		2 - 12	ft		40 - 50	ft		39 - 49	ft		39 - 49	ft		39.5 - 49.5	ft
TOC ELEVATION[1]		38.09	ft		37.14	ft		42.44	ft		38.46	ft		39.36	ft		38.82	ft		38.59	ft
DATE	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP	ELEV	DTW	FP
4/4/2022	36.76	1.33		36.38	0.76		37.70	4.74		33.84	4.62		33.42	5.94		32.67	6.15		33.29	5.30	

Notes:

[1]Survey data provided by Banks & Banks Consulting, Inc. (June 2022)

in - inch
ft - feet
UNK - Unknown
NI - not installed

ELEV - elevation (feet)
DTW - depth to water (feet)
FP - free product (feet)
NM - not measured

TABLE 8
SUMMARY OF DETECTED PFAS CONSTITUENTS IN GROUNDWATER
VERTICAL PROFILING LOCATIONS

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	PFOA + PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS
Provisional GCTL (ng/L)			**70**	**70**	**70**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
VP-1	VP-1-20-24	3/8/22	**330**	**12,000**	**12,330**	2.0 U	**82**	**8.9**	4.0 U	0.80 U	0.80 U	**270**	**360**	0.40 U	**180**	**270**	0.40 U	4.0 U	2.0 U	**120**	**360**	**2,400**	**420**	0.40 U	**230**	**320**	**610**	2.0 U	2.0 U	2.0 U	**38**
	VP-1-36-40	3/8/22	**1,400**	**8,900**	**10,300**	**7.1 I**	**950**	2.0 U	4.0 U	0.80 U	0.80 U	**2,200**	**130**	0.40 U	**3,600**	**590**	0.40 U	4.0 U	2.0 U	**760**	**770**	**20,000**	**3,000**	0.40 U	**210**	**4,100**	**1,400**	2.0 U	2.0 U	2.0 U	**1,700**
	VP-1-48-52	3/8/22	**34**	**310**	**344**	**3.3 I**	**130**	2.1 U	4.1 U	0.83 U	0.83 U	**47**	**6.9**	0.41 U	**170**	**48**	0.41 U	4.1 U	2.1 U	**8.3**	**45**	**380**	**170**	0.41 U	**5.2 I**	**160**	**140**	2.1 U	2.1 U	2.1 U	**76**
VP-2	VP-2-20-24	3/8/22	**370**	**5,300**	**5,670**	2.1 U	**810**	2.1 U	4.1 U	0.83 U	0.83 U	**690**	**88**	0.41 U	**330**	**300**	0.41 U	4.1 U	2.1 U	**200**	**390**	**3,200**	**470**	0.41 U	**3.4 I**	**330**	**700**	2.1 U	2.1 U	2.1 U	**130**
	DUP-VP-2-20-24	3/8/22	**340**	**4,900**	**5,240**	2.1 U	**740**	2.1 U	4.1 U	0.83 U	0.83 U	**630**	**87**	0.41 U	**350**	**290**	0.41 U	4.1 U	2.1 U	**200**	**430**	**3,000**	**570**	0.41 U	**2.5 I**	**360**	**730**	2.1 U	2.1 U	2.1 U	**130**
	VP-2-36-40	3/8/22	**18**	**39**	**57**	**4.9 I**	**17 I**	2.1 U	4.1 U	0.83 U	0.83 U	**210**	**0.94 I**	0.41 U	**460**	**190**	0.41 U	4.1 U	2.1 U	**2.0 I**	**270**	**4,000**	**740**	0.41 U	2.1 U	0.41 U	**380**	2.1 U	2.1 U	2.1 U	**250**
	VP-2-48-52	3/8/22	**3.1 I**	**55**	**58.1**	2.0 U	16 U	2.0 U	4.1 U	0.81 U	0.81 U	**4.3**	**1.2 I**	0.41 U	**3.3**	4.1 U	0.41 U	4.1 U	2.0 U	0.81 U	**2.1 I**	**39**	**3.8 I**	0.41 U	2.0 U	**5.9**	**4.0 I**	2.0 U	2.0 U	2.0 U	4.1 U
VP-3	VP-3-20-24	12/14/21	2.0 U	2.0 U	2.0 U	2.0 U	**24 I**	2.0 U	4.0 U	0.80 U	0.80 U	**1.3 I**	0.80 U	0.40 U	**9.0**	**98**	0.40 U	4.0 U	2.0 U	0.80 U	**18**	**12**	**140**	0.40 U	2.0 U	**4.0**	**410**	2.0 U	2.0 U	2.0 U	4.0 U
	VP-3-20-24	3/7/22	2.0 U	2.0 U	2.0 U	2.0 U	**37 I**	2.0 U	4.0 U	0.80 U	0.80 U	**2.0 I**	0.80 U	0.40 U	**14**	**110**	0.40 U	4.0 U	2.0 U	0.80 U	**20**	**10**	**170**	0.40 U	2.0 U	**5.0**	**290**	2.0 U	2.0 U	2.0 U	**10 I**
	VP-3-36-40	3/7/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**6.3**	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	**1.1 I**	**7.4 I**	0.40 U	2.0 U	**2.2**	**4.0 I**	2.0 U	2.0 U	2.0 U	4.0 U
	VP-3-48-52	3/7/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**0.77 I**	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	**1.2 I**	2.0 U	0.40 U	2.0 U	**0.85 I**	2 U	2.0 U	2.0 U	**2.3 I**	4.0 U
VP-4	VP-4-20-24	3/8/22	**23**	**300**	**323**	2.0 U	**99**	2.0 U	4.0 U	0.80 U	0.80 U	**36**	**10**	0.4 U	**35**	**37**	0.40 U	4.0 U	2.0 U	**15**	**32**	**160**	**83**	0.40 U	**16**	**35**	**120**	2.0 U	2.0 U	2.0 U	**8.2 I**
	VP-4-36-40	3/8/22	**6.3 I**	**15**	**21.3**	2.0 U	16 U	2.0 U	4.1 U	0.81 U	0.81 U	**1.9 I**	0.81 U	0.41 U	**57**	**15 I**	0.41 U	4.1 U	2.0 U	**0.93 I**	**10**	**150**	**61**	0.41 U	2.0 U	**42**	**34**	2.0 U	2.0 U	2.0 U	**34**
	VP-4-48-52	3/8/22	**67**	**740**	**807**	**4.3 I**	**410**	2.0 U	4.0 U	0.80 U	0.80 U	**120**	**5.1**	0.40 U	**180**	**84**	0.40 U	4.0 U	2.0 U	**30**	**57**	**570**	**250**	0.40 U	**52**	**170**	**310**	2.0 U	2.0 U	2.0 U	**74**

Notes:
Provisional GCTL - FDEP Provisional Groundwater Cleanup Target Level
All results are reported in nanograms per liter (ng/L)
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
Highlighted font indicates constituent concentration was reported above the Provisional FDEP Groundwater Cleanup Target Level.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
J - Estimated value and/or the analysis did not meet established quality control criteria.

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HODA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid	PFPrS	Perfluoropropanesulfonic acid

TABLE 9
GROUNDWATER FIELD PARAMETERS

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample Date	pH (SU)	Temperature (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
DEPMW-1S	4/4/22	6.24	22.0	292.0	0.34	12.6	-192.1
DEPMW-1D	4/7/22	7.15	23.7	753	0.17	1.77	-131.8
DEPMW-2S	4/7/22	5.48	26.6	108.4	0.45	25.2	44.8
DEPMW-2D	4/7/22	7.04	24.3	793	0.19	5.20	-96.3
DEPMW-3S	4/5/22	5.77	21.7	344.9	0.31	125	-142.2
DEPMW-3D	4/5/22	7.62	23.4	701	0.17	7.21	-348.7
DEPMW-4S	4/5/22	6.57	24.2	352.1	0.22	16.4	-213.7
DEPMW-4D	4/5/22	7.41	24.3	669	0.20	7.54	-205.0
DEPMW-5S	4/6/22	6.22	22.9	371.3	0.36	11.4	-9.4
DEPMW-6S	4/4/22	5.94	21.5	365.8	0.18	53.8	-240.2
DEPMW-7S	4/4/22	5.52	22.1	416.2	0.34	20.1	-199.2
DEPMW-8S	4/7/22	6.33	24.9	362.3	0.36	13.3	-133.9
DEPMW-9S	4/4/22	6.30	24.0	331.3	0.38	15.1	-84.5
DEPMW-10S	4/4/22	5.54	25.1	179.4	0.61	101.3	20.8
FSCJ-TMW-1S	4/7/22	7.30	22.3	493.1	1.71	6.20	-26.2
FSCJ-TMW-2SR	4/7/22	7.12	22.3	854	0.37	15.8	-61.9
FSCJ-TMW-2D	4/5/22	8.65	23.3	442.1	0.29	1.01	-117.4
FSCJ-TMW-3S	4/7/22	6.73	22.7	500.0	0.25	1.60	-218.1

TABLE 9
GROUNDWATER FIELD PARAMETERS

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample Date	pH (SU)	Temperature (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
FSCJ-TMW-4SR	4/6/22	5.66	22.4	267.7	0.28	7.40	-206.7
FSCJ-TMW-4DR	4/6/22	7.49	24.1	621	0.27	16.5	-87.2
FSCJ-TMW-6S	4/5/22	4.64	22.8	300.6	0.28	9.88	-99.4
FSCJ-TMW-6D	4/5/22	7.30	23.5	567	0.69	89.4	-111.3
FSCJ-TMW-7SR	4/6/22	3.84	21.4	736	0.66	4.69	39.2
FSCJ-TMW-8S	4/6/22	5.64	22.9	134.3	0.38	3.06	-117.9
FSCJ-TMW-9S	4/6/22	3.95	21.3	288.0	0.42	1.91	138.9
FSCJ-TMW-10S	4/6/22	4.34	24.2	97.9	0.25	25.7	52.1
FSCJ-TMW-11S	4/8/22	6.83	21.1	601	2.17	3.87	-119.2
FSCJ-TMW-12S	4/8/22	5.97	22.9	233.9	0.97	4.88	-165.0
FSCJ-TMW-13S	4/6/22	6.06	19.7	348.6	0.65	3.04	-52.0
FSCJ-TMW-14S	4/5/22	5.52	23.9	435.1	0.46	9.61	-64.9
FSCJ-TMW-15S	4/6/22	6.92	22.3	329.5	0.74	2.25	-98.7
FSCJ-TMW-16S	4/8/22	6.41	22.3	442.6	0.47	1.37	-137.7
FSCJ-TMW-17S	4/8/22	6.57	21.1	313.0	1.95	1.29	13.2
FSCJ-TMW-18S	4/8/22	6.23	22.4	255.4	0.69	2.07	20.2
FSCJ-TMW-20S	4/6/22	4.12	23.2	195.8	0.32	36.2	56.8
Well 1	4/5/22	7.56	24.6	149.3	0.73	0.68	-185.8

TABLE 9
GROUNDWATER FIELD PARAMETERS

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample Date	pH (SU)	Temperature (°C)	Conductivity (µS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)
Well 5	4/5/22	7.69	25.1	1,273	2.16	4.40	-162.7
Well 6	4/5/22	7.87	24.9	705	4.05	1.38	-153.6
Well 7	4/5/22	7.62	23.8	1,679	2.58	0.86	-157.6

Notes:
mg/L - milligrams per liter
SU - standard units
µS/cm - microsiemens per centimeter
°C - degrees Celsius
mV - millivolts
NTU - Nephelometric Turbidity Units
DO - dissolved oxygen
ORP - oxidation-reduction potential

TABLE 10
SUMMARY OF DETECTED PFAS CONSTITUENTS IN GROUNDWATER

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	PFOA + PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS	ADONA
Provisional GCTL (ng/L)			**70**	**70**	**70**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DEPMW-1S	DEPMW-1S	4/4/22	**55**	**490**	**545**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**2.8 I**	**1.2 I**	0.40 U	**20**	**53**	0.40 U	4.0 U	2.0 U	**9.0**	**35**	**180**	**70**	**3.1**	**17**	**18**	**74**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
DEPMW-1D	DEPMW-1D	4/7/22	**1,300**	**5,900**	**7,200**	**11**	**950**	2.0 U	4.0 U	0.80 U	0.80 U	**1,400**	**51**	0.40 U	**3,200**	**450**	0.40 U	4.0 U	2.0 U	**810.0**	**570 J**	**17,000**	**2,200**	0.40 U	**180**	**3,100**	**1,100**	2.0 U	2.0 U	2.0 U	**930**	0.40 U
DEPMW-2S	DEPMW-2S	4/7/22	**14**	**130**	**144**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**5.4**	**14 I**	0.40 U	4.0 U	2.0 U	**2.7 I**	**23**	**39**	**19**	0.40 U	2.0 U	**3.8**	**21**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
DEPMW-2D	DEPMW-2D	4/7/22	2.1 U	2.1 U	2.1 U	2.1 U	17 U	2.1 U	4.2 U	0.83 U	0.83 U	0.83 U	0.83 U	0.42 U	**2.1**	4.2 U	0.42 U	4.2 U	2.1 U	0.83 U	2.1 U	**3.6**	2.1 U	0.42 U	2.1 U	**1.5 I**	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	0.42 U
DEPMW-3S	DEPMW-3S	4/5/22	**82**	**60**	**142**	2.0 U	**220**	2.0 U	4.0 U	0.80 U	0.80 U	**14**	0.80 U	0.40 U	**22**	**140**	0.40 U	4.0 U	2.0 U	0.80 U	**220**	**130**	**210**	0.40 U	**14**	**20**	**430**	2.0 U	2.0 U	2.0 U	**9.6 I**	0.40 U
DEPMW-3D	DEPMW-3D	4/5/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**0.96 I**	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
	DUP-DEPMW-3D	4/5/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**1.4 I**	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
DEPMW-4S	DEPMW-4S	4/5/22	**24**	**1,400**	**1,424**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**27**	**55**	0.40 U	**9.5**	**15 I**	0.40 U	**8.1 I**	2.0 U	**13**	**23**	**290**	**47**	**9.8**	**8.1**	**21**	**35**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
DEPMW-4D	DEPMW-4D	4/5/22	**11**	**11**	**22**	2.0 U	**31 I**	2.0 U	4.0 U	0.80 U	0.80 U	**4.7**	0.80 U	0.40 U	**42**	**15 I**	0.40 U	4.0 U	2.0 U	**2.1 I**	**13**	**150**	**52**	0.40 U	2.0 U	**32**	**32**	2.0 U	2.0 U	2.0 U	**18**	0.40 U
DEPMW-5S	DEPMW-5S	4/6/22	**330**	**5,800**	**6,130**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**50**	**58**	0.40 U	**140**	**58**	0.40 U	**31**	2.0 U	**62**	**200**	**2,800**	**340**	0.40 U	**380**	**120**	**180**	2.0 U	2.0 U	**9.5**	**16**	**0.43 I**
DEPMW-6S	DEPMW-6S	4/4/22	**2,500**	**72,000**	**74,500**	**32**	**140,000**	**5,900**	4.0 U	0.80 U	0.80 U	**240**	**230**	**0.48 I**	**410**	**1,500**	0.40 U	**20**	2.0 U	**230**	**1,500**	**3,900**	**6,100**	**120**	**290**	**320**	**5,200**	2.0 U	2.0 U	2.0 U	**250**	0.40 U
DEPMW-7S	DEPMW-7S	4/4/22	**220**	**420**	**640**	2.0 U	**290**	**140**	4.0 U	0.80 U	0.80 U	**57**	**64**	**0.89 I**	**54**	**230**	0.40 U	**16**	2.0 U	**12**	**320**	**220**	**440**	**1.8**	**30**	**44**	**920**	2.0 U	2.0 U	**4.9 I**	**13 I**	0.40 U
DEPMW-8S	DEPMW-8S	4/7/22	**330**	**9,300**	**9,630**	2.0 U	**87**	**2.6 I**	4.0 U	0.80 U	0.80 U	**130**	**820**	0.40 U	**110**	**150**	0.40 U	**21**	2.0 U	**72**	**290**	**2,300**	**370**	0.40 U	**140**	**170**	**520**	2.0 U	2.0 U	2.0 U	**18**	0.40 U
	DUP-DEPMW-8S	4/7/22	**360**	**7,800**	**8,160**	2.0 U	**75**	**3.5 I**	4.0 U	0.80 U	0.80 U	**130**	**780**	0.40 U	**110**	**140**	0.40 U	**18**	2.0 U	**70**	**280**	**2,500**	**400**	**140**	**120**	**180**	**530**	2.0 U	2.0 U	2.0 U	**20**	0.40 U
DEPMW-9S	DEPMW-9S	4/4/22	**30**	**3,600**	**3,630**	2.0 U	**29 I**	2.0 U	4.0 U	0.80 U	0.80 U	**62**	**400**	**3.6**	**67**	**34**	0.40 U	4.0 U	2.0 U	**43**	**12**	**1,000**	**78**	**22**	**3.5 I**	**92**	**71**	2.0 U	2.0 U	2.0 U	**13 I**	0.40 U
DEPMW-10S	DEPMW-10S	4/4/22	2.0 U	**5.3 I**	**5.3 I**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**0.41 I**	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	**5.2**	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
FSCJ-TMW-1S	FSCJ-TMW-1S	4/7/22	**1,400**	**5,900**	**7,300**	**32**	**29,000**	**17,000**	4.0 U	**4.1**	**1.3 I**	**750**	**6,300**	**230**	**150**	**1,100**	**8.2**	4.0 U	**12**	**57**	**2,300**	**1,900**	**2,800**	**15**	**170**	**170**	**4,000**	2.0 U	2.0 U	**79**	**69**	0.40 U
FSCJ-TMW-2SR	FSCJ-TMW-2SR	4/7/22	**2,200**	**24,000**	**26,200**	**71**	**61,000**	**4,600**	4.0 U	**41**	**1.7 I**	**2200**	**16,000**	**530**	**410**	**1,500**	**24**	**320**	**23**	**170**	**2,200**	**4,800**	**5,500**	**22**	**180**	**420**	**7,900**	2.0 U	2.6 I	160	**220**	0.40 U
FSCJ-TMW-2D	FSCJ-TMW-2D	4/7/22	**26**	**46**	**72**	2.0 U	**96**	2.0 U	4.0 U	0.80 U	0.80 U	**34**	**290**	0.40 U	**55**	**34**	0.40 U	4.0 U	2.0 U	**1.7 I**	**40**	**180**	**97**	0.40 U	2.0 U	**35**	**100**	2.0 U	2.0 U	2.0 U	**29**	0.40 U
FSCJ-TMW-3S	FSCJ-TMW-3S	4/7/22	**1,200**	**9,200**	**10,400**	**10**	**4,600 I**	**3,100**	4.0 U	0.80 U	0.80 U	**350**	**15,000**	**36**	**73**	**690**	0.40 U	**290**	2.0 U	**90**	**1,800**	**2,000**	**1,600**	**32**	**440**	**120**	**3,000**	2.0 U	2.0 U	**300**	**21**	0.40 U
FSCJ-TMW-4SR	FSCJ-TMW-4SR	4/6/22	**300**	**1,600**	**1,900**	2.0 U	**1,300**	**3.9 I**	4.0 U	0.80 U	0.80 U	**33**	**6.9**	0.40 U	**12**	**350**	0.40 U	4.0 U	2.0 U	**13**	**430**	**190**	**600**	0.40 U	**100**	**16**	**1,500**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
	DUP-FSCJ-TMW-4SR	4/6/22	**290**	**1,500**	**1,790**	2.0 U	**1,200**	**3.6 I**	4.0 U	0.80 U	0.80 U	**29**	**6.0**	0.40 U	**13**	**370**	0.40 U	4.0 U	2.0 U	**13**	**410**	**180**	**570**	0.40 U	**120**	**15**	**1,400**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U

TABLE 10
SUMMARY OF DETECTED PFAS CONSTITUENTS IN GROUNDWATER

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	PFOA + PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS	ADONA
FSCJ-TMW-4DR	FSCJ-TMW-4DR	4/6/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	0.40 U	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	**2.7 I**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
FSCJ-TMW-6S	FSCJ-TMW-6S	4/5/22	**70**	**47**	**117**	2.0 U	**31 I**	2.0 U	4.0 U	0.80 U	0.80 U	**1.9 I**	0.80 U	0.40 U	**33**	**200**	0.40 U	4.0 U	2.0 U	**2.9 I**	**310**	**160**	**260**	0.40 U	2.0 U	**36**	**630**	2.0 U	2.0 U	2.0 U	**7.1 I**	0.40 U
FSCJ-TMW-6D	FSCJ-TMW-6D	4/5/22	**2.3 I**	2.0 U	**2.3 I**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**0.49 I**	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	**2.2 I**	2.0 U	0.40 U	2.0 U	0.40 U	**2.2 I**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
FSCJ-TMW-7SR	FSCJ-TMW-7SR	4/6/22	**140**	**1,300**	**1,440**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**5.9**	**1.7 I**	0.40 U	**2.5**	**99**	0.40 U	4.0 U	2.0 U	**5.1**	**120**	**66**	**150**	0.40 U	**140**	**3.2**	**280**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
FSCJ-TMW-8S	FSCJ-TMW-8S	4/6/22	**490**	**1,400**	**1,890**	**4.7 I**	**3,000**	**98**	4.0 U	0.80 U	0.80 U	**140**	**200**	**1.4 I**	**77**	**780**	0.40 U	**13 I**	2.0 U	**19**	**1,100**	**530**	**1300**	**0.61 I**	170	**78**	**3,000**	2.0 U	2.0 U	**3.5 I**	**33**	0.40 U
FSCJ-TMW-9S	FSCJ-TMW-9S	4/6/22	**2.9 I**	**23**	**25.9**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**7.8**	0.80 U	0.40 U	**130**	**24**	0.40 U	4.0 U	2.0 U	**0.91 I**	**4.9 I**	**150**	**13**	0.40 U	2.0 U	**57**	**38**	2.0 U	2.0 U	2.0 U	**94**	0.40 U
FSCJ-TMW-10S	FSCJ-TMW-10S	4/6/22	**90**	**82**	**172**	2.0 U	**87**	2.0 U	4.0 U	0.80 U	0.80 U	**7.9**	0.80 U	0.40 U	**24**	**120**	0.40 U	4.0 U	2.0 U	**3.1 I**	**120**	**300**	**190**	0.40 U	**18**	**20**	**380**	2.0 U	2.0 U	2.0 U	**9.4 I**	0.40 U
FSCJ-TMW-11S	FSCJ-TMW-11S	4/8/22	**1,100**	**12,000**	**13,100**	**20**	**13,000**	**2,500**	4.0 U	**10**	0.80 U	**480**	**15,000**	**420**	**120**	**780**	**18**	**230**	**5.4 I**	**120**	**1,400**	**3,300**	**1,800**	**36**	**310**	**210**	**3,400**	2.0 U	**2.7 I**	**340**	**49**	**0.69 I**
FSCJ-TMW-12S	FSCJ-TMW-12S	4/8/22	**350**	**3,500**	**3,850**	**6.0 I**	**3200**	**820**	4.0 U	**2.2 I**	0.80 U	**280**	**3,800**	**110**	**95**	**230**	**7.9**	**71**	**29**	**55**	**580**	**2,100**	**630**	**17**	**180**	**180**	**1,200**	2.0 U	2.0 U	**110**	**39**	0.40 U
FSCJ-TMW-13S	FSCJ-TMW-13S	4/6/22	**270**	2.0 U	**270**	2.0 U	**84**	**8.6**	4.0 U	0.80 U	0.80 U	**140**	**250**	**1.7**	**710**	**240**	0.40 U	**29**	2.0 U	**93**	**530**	**4,200**	**630 I**	0.40 U	**150**	**800**	**610**	2.0 U	2.0 U	**4.1 I**	**280**	0.40 U
	Dup_FSCJ-TMW-13S	4/6/22	**230**	2.0 U	**230**	2.0 U	**78**	**9.4**	4.0 U	0.80 U	0.80 U	**120**	**260**	**1.5 I**	**700**	**250**	0.40 U	**29**	2.0 U	**90**	**460**	**4,000**	**630 I**	0.40 U	**130**	**730**	**560**	2.0 U	2.0 U	**2.9 I**	**290**	0.40 U
FSCJ-TMW-14S	FSCJ-TMW-14S	4/5/22	**26**	**34**	**60**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	**8.2**	**38**	0.40 U	4.0 U	2.0 U	0.80 U	**64**	**42**	**58**	0.40 U	**5.4 I**	**4.9**	**96**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
FSCJ-TMW-15S	FSCJ-TMW-15S	4/6/22	**57**	**70**	**127**	2.0 U	16 U	**2.1 I**	4.0 U	0.80 U	0.80 U	**2.1 I**	**6.5**	0.40 U	**1.1 I**	**51**	0.40 U	**4.6 I**	2.0 U	0.80 U	**88**	**14**	**57**	0.40 U	**6.5 I**	**0.96 I**	**130**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
FSCJ-TMW-16S	FSCJ-TMW-16S	4/8/22	**1,500**	**10,000**	**11,500**	2.0 U	**1,100**	**45**	4.0 U	0.80 U	0.80 U	**160**	**800**	**0.91 I**	**99**	**560**	**1.0 I**	**230**	2.0 U	**110**	**2,700**	**2,100**	**1,600**	**14**	**1,100**	**130**	**1,800**	2.0 U	2.0 U	**20**	**29**	0.80 U
FSCJ-TMW-17S	FSCJ-TMW-17S	4/8/22	**720**	**6,900**	**7,620**	2.0 U	**180**	**34**	4.0 U	0.80 U	0.80 U	**100**	**480**	**2.8**	**99**	**420**	0.40 U	**340**	2.0 U	**59**	**1,600**	**2,200**	**950**	**20**	**370**	**130**	**1,200**	2.0 U	2.0 U	**240**	**27**	**0.53 I**
FSCJ-TMW-18S	FSCJ-TMW-18S	4/8/22	**130**	**2,400**	**2,530**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**96**	**240**	**9.6**	**200**	**55**	**2.8**	**49**	2.0 U	**70**	**100**	**3,600**	**210**	**27**	**430**	**290**	**140**	2.0 U	**2.9 I**	**1,800**	**63 I**	0.40 U
	Dup_FSCJ-TMW-18S	4/8/22	**150**	**2,200**	**2,350**	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	**91**	**220**	**8.5**	**190**	**51**	**3.0**	**48**	2.0 U	**67**	**93**	**3,100**	**230**	**31**	**400**	**280**	**150**	2.0 U	**5.7 I**	**1,500**	**60 I**	0.40 U
FSCJ-TMW-20S	FSCJ-TMW-20S	4/6/22	**25**	**110**	**135**	2.0 U	**28 I**	2.0 U	4.0 U	0.80 U	0.80 U	**1.4 I**	0.80 U	0.40 U	**50**	**150**	0.40 U	4.0 U	2.0 U	0.80 U	**66**	**210**	**200**	0.40 U	**7.9 I**	**40**	**370**	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U

TABLE 10
SUMMARY OF DETECTED PFAS CONSTITUENTS IN GROUNDWATER

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	PFOA	PFOS	PFOA + PFOS	4:2 FTS	6:2 FTS	8:2 FTS	HODA	N-Et	N-Me	FBSA	FHxSA	FOSA	PFBS	PFBA	PFDS	PFDA	PFDoA	PFHpS	PFHpA	PFHxS	PFHxA	PFNS	PFNA	PFPeS	PFPeA	PFTeA	PFTriA	PFUnA	PFPrS	ADONA
Well 1	Well 1	4/5/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	0.40 U	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
Well 5	Well 5	4/5/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	0.40 U	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
Well 6	Well 6	4/5/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	0.40 U	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U
Well 7	Well 7	4/5/22	2.0 U	2.0 U	2.0 U	2.0 U	16 U	2.0 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	0.40 U	4.0 U	0.40 U	4.0 U	2.0 U	0.80 U	2.0 U	0.80 U	2.0 U	0.40 U	2.0 U	0.40 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.40 U

Notes:
Provisional GCTL - FDEP Provisional Groundwater Cleanup Target Level
All results are reported in nanograms per liter (ng/L)
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
Highlighted font indicates constituent concentration was reported above the Provisional FDEP Groundwater Cleanup Target Level.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
J - Estimated value and/or the analysis did not meet established quality control criteria.

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HODA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid	PFPrS	Perfluoropropanesulfonic acid
		ADONA	4,8-Dioxa-3H-perfluorononanoic acid

TABLE 11
SUMMARY OF VOCs, SVOCs, AND TRPH IN GROUNDWATER

Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample Date	VOCs (µg/L)	SVOCs (µg/L)	TRPH (mg/L)
Groundwater Cleanup Target Level (GCTL)		**various**	**various**	**5**
Natural Attenuation Default Concentration (NADC)		**various**	**various**	**500**
DEPMW-2S	4/7/22	Below MDLs	Below MDLs	Below MDLs
DEPMW-8S	4/7/22	Below MDLs	Below MDLs	Below MDLs
FSCJ-TMW-2SR	4/7/22	Below MDLs	Below MDLs	Below MDLs
FSCJ-TMW-2D	4/7/22	Below MDLs	Below MDLs	Below MDLs
FSCJ-TMW-3S	4/7/22	Below MDLs	Below MDLs	Below MDLs
FSCJ-TMW-11S	4/8/22	Below MDLs	Below MDLs	Below MDLs
FSCJ-TMW-12S	4/8/22	Below MDLs	Below MDLs	Below MDLs
FSCJ-TMW-17S	4/8/22	Below MDLs	Below MDLs	Below MDLs
FSCJ-TMW-18S	4/8/22	Below MDLs	Below MDLs	Below MDLs

Notes:
MDL - Laboratory Method Detection Limit
VOC - Volatile Organic Compound
SVOC - Semi-volatile Organic Compound
TRPH - Total Recoverable Petroleum Hydrocarbons
µg/L - Micrograms per Liter
mg/L - Milligrams per Liter

TABLE 12
SUMMARY OF PERCENT RELATIVE ABUNDANCE OF PFAS CONSTITUENTS IN SURFACE AND GROUND WATER

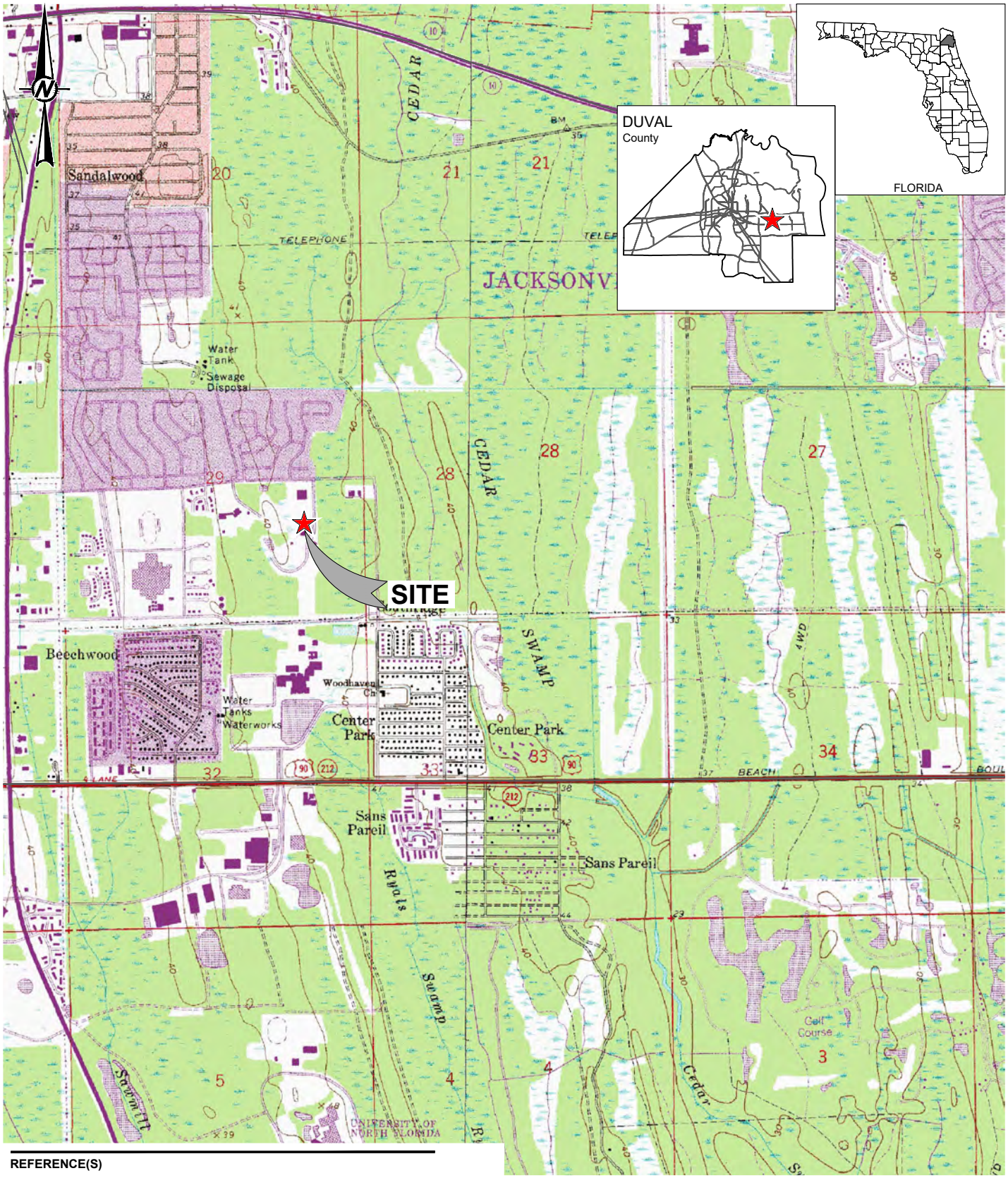
Fire Academy of the South - FSCJ
Jacksonville, Duval County, Florida
Facility ID No. ERIC_17235

Sample Location	Sample ID	Sample Date	Concentration (ng/L)																													Percent Relative Abundance																													Comments
			PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFDoA	PFUnA	PFTriA	PFTeA	PFPrS	PFBS	PFPeS	PFHxS	PFHpS	PFOS	PFNS	PFDS	PFOA + PFOS	4:2 FTS	6:2 FTS	8:2 FTS	N-Me	N-Et	FBSA	FHxSA	FOSA	HODA	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFDoA	PFUnA	PFTriA	PFTeA	PFPrS	PFBS	PFPeS	PFHxS	PFHpS	PFOS	PFNS	PFDS	PFOA + PFOS	4:2 FTS	6:2 FTS	8:2 FTS	N-Me	N-Et	FBSA	FHxSA	FOSA	HODA	
Provisional GCTL (ng/L)			---	---	---	---	70	---	---	---	---	---	---	---	---	---	---	---	70	---	---	70	---	---	---	---	---	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Provisional SWCTL (ng/L)			---	---	---	---	500	---	---	---	---	---	---	---	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SW-1	SW-1	6/23/2021	180	720	320	180	100	25	18	2.0 U	3.9 I	2.0 U	2.0 U	NM	27	31	150	7.8	240	0.40 U	0.40 U	340	2.0 U	270	33	0.80 U	0.80 U	15	32	1.3 I	4.0 U	75%	300%	133%	75%	42%	10%	8%	<0.1%	2%	<0.1%	<0.1%		11%	13%	63%	3%	100%	<0.1%	<0.1%	142%	<0.1%	113%	14%	<0.1%	<0.1%	6%	13%	<1%	<0.1%	PFPrS not measured
SW-2	SW-2	6/23/2021	100	300	290	110	77	27	8.3 I	2.0 U	7.5 I	2.0 U	2.0 U	NM	47	53	420	18	1,200	0.40 U	0.40 U	1,277	2.0 U	280	29	0.80 U	0.80 U	69	260	3.3	4.0 U	8%	25%	24%	9%	6%	2%	<1%	<0.1%	<1%	<0.1%	<0.1%		4%	4%	35%	2%	100%	<0.1%	<0.1%	106%	<0.1%	23%	2%	<0.1%	<0.1%	6%	22%	<1%	<0.1%	PFPrS not measured
SW-3	SW-3	11/30/2021	35	140	100	45	33	12	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	14 I	48	41	210	7	340	0.40 U	0.40 U	373	2.0 U	55 I	2.0 U	0.80 U	0.80 U	18	7.6	0.40 U	4.0 U	10%	41%	29%	13%	10%	4%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	4%	14%	12%	62%	2%	100%	<0.1%	<0.1%	110%	<0.1%	16%	<0.1%	<0.1%	<0.1%	5%	2%	<0.1%	<0.1%	
SW-4	SW-4	11/30/2021	48	200	150	51	35	10	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	39	85	69	270	6.1	330	0.40 U	0.40 U	365	2.0 U	61 I	2.0 U	0.80 U	0.80 U	14 I	6.2 I	0.40 U	4.0 U	15%	61%	45%	15%	11%	3%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	12%	26%	21%	82%	2%	100%	<0.1%	<0.1%	111%	<0.1%	18%	<0.1%	<0.1%	<0.1%	4%	2%	<0.1%	<0.1%	
	DUP-SW-4	11/30/2021	49	200	150	61	35	12	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	36	91	75	300	7	380	0.40 U	0.40 U	415	2.0 U	57 I	2.0 U	0.80 U	0.80 U	12 I	6.1 I	0.40 U	4.0 U	13%	53%	39%	16%	9%	3%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	9%	24%	20%	79%	2%	100%	<0.1%	<0.1%	109%	<0.1%	15%	<0.1%	<0.1%	<0.1%	3%	2%	<0.1%	<0.1%	
SW-5	SW-5	11/30/2021	310	1,400	980	500	310	150	40	2.0 U	16	2.0 U	2.0 U	110	250	160	1,800	97	7,200	6.1	0.40 U	7,510	4.6 I	3,000 I	670	0.80 U	0.80 U	270	2,100	17	4.0 U	4%	19%	14%	7%	4%	2%	<1%	<0.1%	<1%	<0.1%	<0.1%	2%	3%	2%	25%	1%	100%	<0.1%	<0.1%	104%	<0.1%	42%	9%	<0.1%	<0.1%	4%	29%	<1%	<0.1%	
SW-6	SW-6	11/30/2021	89	260	280	100	96	25	9.0 I	2.0 U	5.2 I	2.0 U	2.0 U	15 I	48	56	410	16	1,200	1.0 I	0.40 U	1,296	2.0 U	230 I	23	0.80 U	0.80 U	86	350	1.9	4.0 U	7%	22%	23%	8%	8%	2%	<1%	<0.1%	<1%	<0.1%	<0.1%	1%	4%	5%	34%	1%	100%	<0.1%	<0.1%	108%	<0.1%	19%	2%	<0.1%	<0.1%	7%	29%	<1%	<0.1%	
SW-7	SW-7	11/30/2021	18	48	30	22	12	4.4 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	3.2	3	18	0.80 U	42	0.40 U	0.40 U	54	2.0 U	16 U	2.0 U	0.80 U	0.80 U	1.5 I	2.5	0.40 U	4.0 U	43%	114%	71%	52%	29%	10%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	8%	7%	43%	<0.1%	100%	<0.1%	<0.1%	129%	<0.1%	<38%	<0.1%	<0.1%	<0.1%	4%	6%	<0.1%	<0.1%	
SW-8	SW-8	11/30/2021	17	48	31	22	11	3.7 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	3	2.9	18	0.80 U	42	0.40 U	0.40 U	53	2.0 U	16 U	2.0 U	0.80 U	0.80 U	1.4 I	2.5	0.40 U	4.0 U	40%	114%	74%	52%	26%	9%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	7%	7%	43%	<0.1%	100%	<0.1%	<0.1%	126%	<0.1%	<38%	<0.1%	<0.1%	<0.1%	3%	6%	<0.1%	<0.1%	
SW-9	SW-9	11/30/2021	450	1,900	1,400	690	530	140	39	2.4 I	17	2.0 U	2.0 U	52	170	210	2,000	150	6,700	5.1	0.66 I	7,230	5.4 I	3,400	400	0.80 U	0.80 U	820	4,300	43	4.0 U	7%	28%	21%	10%	8%	2%	<1%	<0.1%	<1%	<0.1%	<0.1%	<1%	3%	3%	30%	2%	100%	<0.1%	<0.1%	108%	<0.1%	51%	6%	<0.1%	<0.1%	12%	64%	<1%	<0.1%	
SW-10	SW-10	11/30/2021	870	3,700	2,200	980	820	240	120	2.0 U	92	2.0 U	2.0 U	140	320	280	3,000	320 I	14,000	27	3.7	14,820	17	15,000	3,500	3.3	0.80 U	580	6,000	120	4.0 U	6%	26%	16%	7%	6%	2%	<1%	<0.1%	<1%	<0.1%	<0.1%	1%	2%	2%	21%	2%	100%	<1%	<0.1%	106%	<1%	107%	25%	<0.1%	<0.1%	4%	43%	<1%	<0.1%	
	DUP-SW-10	11/30/2021	850	4,000	2,000	990	840	210	130	2.0 U	91	2.0 U	2.0 U	170	310	300	2,800	300 I	13,000	28	3.6	13,840	18	13,000	3,400	3.7	0.80 U	570	6,200	120	4.0 U	7%	31%	15%	8%	6%	2%	1%	<0.1%	<1%	<0.1%	<0.1%	1%	2%	2%	22%	2%	100%	<1%	<0.1%	106%	<1%	100%	26%	<0.1%	<0.1%	4%	48%	<1%	<0.1%	
SW-11	SW-11	11/30/2021	550	1,500	2,000	420	130	17	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1,000	2,200	1,200	6,400	180	1,600	0.40 U	0.40 U	1,730	11	110	2.0 U	0.80 U	0.80 U	130	12	0.40 U	4.0 U	34%	94%	125%	26%	8%	1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	63%	138%	75%	400%	11%	100%	<0.1%	<0.1%	108%	<1%	7%	<0.1%	<0.1%	<0.1%	8%	<1%	<0.1%	<0.1%	
SW-12	SW-12	3/8/2022	6.4 I	4.5 I	3.5 I	2.0 U	2.0 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	1.7	1.1 I	6.7	0.80 U	12	0.40 U	0.40 U	14	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	53%	38%	29%	<17%	17%	<17%	<33%	<17%	<17%	<17%	<17%	<33%	14%	9%	56%	<0.1%	100%	<0.1%	<0.1%	117%	<17%	<133%	<17%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<33%	
	DUP-SW-12	3/8/2022	6.3 I	4.8 I	3.9 I	2.0 U	2.0 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	1.7	1.1 I	5.8	0.80 U	12	0.40 U	0.40 U	14	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	53%	40%	33%	<17%	17%	<17%	<33%	<17%	<17%	<17%	<17%	<33%	14%	9%	48%	<0.1%	100%	<0.1%	<0.1%	117%	<17%	<133%	<17%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<33%	
VP-1	VP-1-20-24	3/8/2022	270	610	420	360	330	230	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	38	180	320	2,400	120	12,000	0.40 U	0.40 U	12,330	2.0 U	82	8.9	0.80 U	0.80 U	270	360	0.40 U	4.0 U	2%	5%	4%	3%	3%	2%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	2%	3%	20%	1%	100%	<0.1%	<0.1%	103%	<0.1%	<1%	<0.1%	<0.1%	<0.1%	2%	3%	<0.1%	<0.1%	
	VP-1-36-40	3/8/2022	590	1,400	3,000	770	1,400	210	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1,700	3,600	4,100	20,000	760	8,900	0.40 U	0.40 U	10,300	7.1 I	950	2.0 U	0.80 U	0.80 U	2,200	130	0.40 U	4.0 U	7%	16%	34%	9%	16%	2%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	19%	40%	46%	225%	9%	100%	<0.1%	<0.1%	116%	<0.1%	11%	<0.1%	<0.1%	<0.1%	25%	1%	<0.1%	<0.1%	
	VP-1-48-52	3/8/2022	48	140	170	45	34	5.2 I	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	76	170	160	380	8.3	310	0.41 U	0.41 U	344	3.3 I	130	2.1 U	0.83 U	0.83 U	47	6.9	0.41 U	4.1 U	15%	45%	55%	15%	11%	2%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	25%	55%	52%	123%	3%	100%	<0.1%	<0.1%	111%	1%	42%	<0.1%	<0.1%	<0.1%	15%	2%	<0.1%	<0.1%	
VP-2	VP-2-20-24	3/8/2022	300	700	470	390	370	3.4 I	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	130	330	330	3,200	200	5,300	0.41 U	0.41 U	5,670	2.1 U	810	2.1 U	0.83 U	0.83 U	690	88	0.41 U	4.1 U	6%	13%	9%	7%	7%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	2%	6%	6%	60%	4%	100%	<0.1%	<0.1%	107%	<0.1%	15%	<0.1%	<0.1%	<0.1%	13%	2%	<0.1%	<0.1%	
	DUP-VP-2-20-24	3/8/2022	290	730	570	430	340	2.5 I	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	130	350	360	3,000	200	4,900	0.41 U	0.41 U	5,240	2.1 U	740	2.1 U	0.83 U	0.83 U	630	87	0.41 U	4.1 U	6%	15%	12%	9%	7%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	3%	7%	7%	61%	4%	100%	<0.1%	<0.1%	107%	<0.1%	15%	<0.1%	<0.1%	<0.1%	13%	2%	<0.1%	<0.1%	
	VP-2-36-40	3/8/2022	190	380	740	270	18	2.1 U	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	250	460	0.41 U	4,000	2 I	39	0.41 U	0.41 U	57	4.9 I	17 I	2.1 U	0.83 U	0.83 U	210	0.94 I	0.41 U	4.1 U	487%	974%	1897%	692%	46%	<0.1%	<11%	<0.1%	<0.1%	<0.1%	<0.1%	641%	1179%	<0.1%	10256%	5%	100%	<0.1%	<0.1%	146%	13%	44%	<0.1%	<0.1%	<0.1%	538%	2%	<0.1%	<11%	
	VP-2-48-52	3/8/2022	4.1 U	4 I	3.8 I	2.1 I	3.1 I	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	4.1 U	3.3	5.9	39	0.81 U	55	0.41 U	0.41 U	58.1	2.0 U	16 U	2.0 U	0.81 U	0.81 U	4.3	1.2 I	0.41 U	4.1 U	<0.1%	7%	7%	4%	6%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	6%	11%	71%	<0.1%	100%	<0.1%	<0.1%	106%	<0.1%	<29%	<0.1%	<0.1%	<0.1%	8%	2%	<0.1%	<0.1%	
VP-3	VP-3-20-24	12/14/2021	98	410	140	18	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	9.0	4.0	12	0.80 U	2.0 U	0.40 U	0.40 U	2.0 U	2.0 U	24 I	2.0 U	0.80 U	0.80 U	1.3 I	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
	VP-3-20-24	3/7/2022	110	290	170	20	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 I	14	5.0	10	0.80 U	2.0 U	0.40 U	0.40 U	2.0 U	2.0 U	37 I	2.0 U	0.80 U	0.80 U	2.0 I	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
	VP-3-36-40	3/7/2022	4.0 U	4 I	7.4 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	4.0 U	6.3	2.2	1.1 I	0.80 U	2.0 U	0.40 U	0.40 U	2.0 U	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
	VP-3-48-52	3/7/2022	4.0 U	2 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.3 I	2.0 U	2.0 U	4.0 U	0.77 I	0.85 I	1.2 I	0.80 U	2.0 U	0.40 U	0.40 U	2.0 U	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
VP-4	VP-4-20-24	3/8/2022	37	120	83	32	23	16	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.2 I	35	35	160	15	300	0.40 U	0.40 U	323	2.0 U	99	2.0 U	0.80 U	0.80 U	36	10	0.4 U	4.0 U	12%	40%	28%	11%	8%	5%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	3%	12%	12%	53%	5%	100%	<0.1%	<0.1%	108%	<0.1%	33%	<0.1%	<0.1%	<0.1%	12%	3%	<0.1%	<0.1%	
	VP-4-36-40	3/8/2022	15 I	34	61	10	6.3 I	2.0 U	4.1 U	2.0 U	2.0 U	2.0 U	2.0 U	34	57	42	150	0.93 I	15	0.41 U	0.41 U	21.3	2.0 U	16 U	2.0 U	0.81 U	0.81 U	1.9 I	0.81 U	0.41 U	4.1 U	100%	227%	407%	67%	42%	<13%	<27%	<13%	<13%	<13%	<13%	227%	380%	280%	1000%	6%	100%	<0.1%	<0.1%	142%	<13%	<107%	<13%	<0.1%	<0.1%	13%	<0.1%	<0.1%	<27%	
	VP-4-48-52	3/8/2022	84	310	250	57	67	52	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	74	180	170	570	30	740	0.40 U	0.40 U	807	4.3 I	410	2.0 U	0.80 U	0.80 U	120	5.1	0.40 U	4.0 U	11%	42%	34%	8%	9%	7%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	10%	24%	23%	77%	4%	100%	<0.1%	<0.1%	109%	<1%	55%	<0.1%	<0.1%	<0.1%	16%	<1%	<0.1%	<0.1%	
DEPMW-1S	DEPMW-1S	4/4/2022	53	74	70	35	55	17	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	20	18	180	9	490	3.1	0.40 U	545	2.0 U	16 U	2.0 U	0.80 U	0.80 U	2.8 I	1.2 I	0.40 U	4.0 U	11%	15%	14%	7%	11%	3%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	4%	4%	37%	2%	100%	<1%	<0.1%	111%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	<1%	<0.1%	<0.1%	
DEPMW-1D	DEPMW-1D	4/7/2022	450	1,100	2,200	570 J	1,300	180	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	930	3,200	3,100	17,000	810	5,900	0.40 U	0.40 U	7,200	11	950	2.0 U	0.80 U	0.80 U	1,400	51	0.40 U	4.0 U	8%	19%	37%	10%	22%	3%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	16%	54%	53%	288%	14%	100%	<0.1%	<0.1%	122%	<1%	16%	<0.1%	<0.1%	<0.1%	24%	<1%	<0.1%	<0.1%	
DEPMW-2S	DEPMW-2S	4/7/2022	14 I	21	19	23	14	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	5.4	3.8	39	2.7 I	130	0.40 U	0.40 U	144	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	11%	16%	15%	18%	11%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	4%	3%	30%	2%	100%	<0.1%	<0.1%	111%	<0.1%	<12%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	
DEPMW-2D	DEPMW-2D	4/7/2022	4.2 U	2.1 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	4.2 U	2.1	1.5 I	3.6	0.83 U	2.1 U	0.42 U	0.42 U	2.1 U	2.1 U	17 U	2.1 U	0.83 U	0.83 U	0.83 U	0.83 U	0.42 U	4.2 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
DEPMW-3S	DEPMW-3S	4/5/2022	140	430	210	220	82	14	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	9.6 I	22	20	130	0.80 U	60	0.40 U	0.40 U	142	2.0 U	220	2.0 U	0.80 U	0.80 U	14	0.80 U	0.40 U	4.0 U	233%	717%	350%	367%	137%	23%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	16%	37%	33%	217%	<0.1%	100%	<0.1%	<0.1%	237%	<0.1%	367%	<0.1%	<0.1%	<0.1%	23%	<0.1%	<0.1%	<0.1%	
DEPMW-3D	DEPMW-3D	4/5/2022	4.0 U	2.0 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	4.0 U	0.96 I	0.40 U	0.80 U	0.80 U	2.0 U	0.40 U	0.40 U	2.0 U	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
	DEPMW-3D_Dup	4/5/2022	4.0 U	2.0 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	4.0 U	1.4 I	0.40 U	0.80 U	0.80 U	2.0 U	0.40 U	0.40 U	2.0 U	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
DEPMW-4S	DEPMW-4S	4/5/2022	15 I	35	47	23	24	8.1	8.1 I	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	10	21	290	13	1,400	9.8	0.40 U	1,424	2.0 U	16 U	2.0 U	0.80 U	0.80 U	27	55	0.40 U	4.0 U	1%	3%	3%	2%	2%	<1%	<1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	2%	21%	<1%	100%	<1%	<0.1%	102%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	2%	4%	<0.1%	<0.1%	
DEPMW-4D	DEPMW-4D	4/5/2022	15 I	32	52	13	11	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	18	42	32	150	2.1 I	11	0.40 U	0.40 U	22	2.0 U	31 I	2.0 U	0.80 U	0.80 U	4.7	0.80 U	0.40 U	4.0 U	136%	291%	473%	118%	100%	<18%	<36%	<18%	<18%	<18%	<18%	164%	382%	291%	1364%	19%	100%	<0.1%	<0.1%	200%	<18%	282%	<18%	<0.1%	<0.1%	43%	<0.1%	<0.1%	<36%	
DEPMW-5S	DEPMW-5S	4/6/2022	58	180	340	200	330	380	31	2.0 U	9.5	2.0 U	2.0 U	16	140	120	2,800	62	5,800	0.40 U	0.40 U	6,130	2.0 U	16 U	2.0 U	0.80 U	0.80 U	50	58	0.40 U	4.0 U	1%	3%	6%	3%	6%	7%	<1%	<0.1%	<1%	<0.1%	<0.1%	<1%	2%	2%	48%	1%	100%	<0.1%	<0.1%	106%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	1%	<0.1%	<0.1%	
DEPMW-6S	DEPMW-6S	4/4/2022	1,500	5,200	6,100	1,500	2,500	290	20	2.0 U	2.0 U	2.0 U	2.0 U	250	410	320	3,900	230	72,000	120	0.40 U	74,500	32	140,000	5,900	0.80 U	0.80 U	240	230	0.48 I	4.0 U	2%	7%	8%	2%	3%	<1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	<1%	<1%	5%	<1%	100%	<1%	<0.1%	103%	<0.1%	194%	8%	<0.1%	<0.1%	<1%	<1%	<0.1%	<0.1%	
DEPMW-7S	DEPMW-7S	4/4/2022	230	920	440	320	220	30	16	2.0 U	4.9 I	2.0 U	2.0 U	13 I	54	44	220	12	420	1.8	0.40 U	640	2.0 U	290	140	0.80 U	0.80 U	57	64	0.89 I	4.0 U	55%	219%	105%	76%	52%	7%	4%	<0.1%	1%	<0.1%	<0.1%	3%	13%	10%	52%	3%	100%	<1%	<0.1%	152%	<0.1%	69%	33%	<0.1%	<0.1%	14%	15%	<1%	<0.1%	
DEPMW-8S	DEPMW-8S	4/7/2022	150	520	370	290	330	140	21	2.0 U	2.0 U	2.0 U	2.0 U	18	110	170	2,300	72	9,300	0.40 U	0.40 U	9,630	2.0 U	87	2.6 I	0.80 U	0.80 U	130	820	0.40 U	4.0 U	2%	6%	4%	3%	4%	2%	<1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	1%	2%	25%	<1%	100%	<0.1%	<0.1%	104%	<0.1%	<1%	<0.1%	<0.1%	<0.1%	1%	9%	<0.1%	<0.1%	
	Dup_DEPMW-8S	4/7/2022	140	530	400	280	360	120	18	2.0 U	2.0 U	2.0 U	2.0 U	20	110	180	2,500	70	7,800	140	0.40 U	8,160	2.0 U	75	3.5 I	0.80 U	0.80 U	130	780	0.40 U	4.0 U	2%	7%	5%	4%	5%	2%	<1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	1%	2%	32%	<1%	100%	2%	<0.1%	105%	<0.1%	<1%	<0.1%	<0.1%	<0.1%	2%	10%	<0.1%	<0.1%	
DEPMW-9S	DEPMW-9S	4/4/2022	34	71	78	12	30	3.5 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	13 I	67	92	1,000	43	3,600	22	0.40 U	3,630	2.0 U	29 I	2.0 U	0.80 U	0.80 U	62	400	3.6	4.0 U	<1%	2%	2%	<1%	<1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	2%	3%	28%	1%	100%	<1%	<0.1%	101%	<0.1%	<1%	<0.1%	<0.1%	<0.1%	2%	11%	<1%	<0.1%	
DEPMW-10S	DEPMW-10S	4/4/2022	4.0 U	2.0 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	4.0 U	0.41 I	0.40 U	5.2	0.80 U	5.3 I	0.40 U	0.40 U	5.3 I	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	<75%	<38%	<38%	<38%	<38%	<38%	<75%	<38%	<38%	<38%	<38%	<75%	8%	<0.1%	98%	<15%	100%	<0.1%	<0.1%	100%	<38%	<302%	<38%	<15%	<15%	<15%	<15%	<0.1%	<75%	
FSCJ-TMW-1S	FSCJ-TMW-1S	4/7/2022	1,100	4,000	2,800	2,300	1,400	170	4.0 U	12	79	2.0 U	2.0 U	69	150	170	1,900	57	5,900	15	8.2	7,300	32	29,000	17,000	4.1	1.3 I	750	6,300	230	4.0 U	19%	68%	47%	39%	24%	3%	<0.1%	<1%	1%	<0.1%	<0.1%	1%	3%	3%	32%	<1%	100%	<1%	<1%	124%	<1%	492%	288%	<0.1%	<0.1%	13%	107%	4%	<0.1%	
FSCJ-TMW-2SR	FSCJ-TMW-2SR	4/7/2022	1,500	7,900	5,500	2,200	2,200	180	320	23	160	2.6 I	2.0 U	220	410	420	4,800	170	24,000	22	24	26,200	71	61,000	4,600	41	1.7 I	2,200	16,000	530	4.0 U	6%	33%	23%	9%	9%	<1%	1%	<0.1%	<1%	<0.1%	<0.1%	<1%	2%	2%	20%	<1%	100%	<0.1%	<1%	109%	<1%	254%	19%	<1%	<0.1%	9%	67%	2%	<0.1%	
FSCJ-TMW-2D	FSCJ-TMW-2D	4/7/2022	34	100	97	40	26	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	29	55	35	180	1.7 I	46	0.40 U	0.40 U	72	2.0 U	96	2.0 U	0.80 U	0.80 U	34	290	0.40 U	4.0 U	74%	217%	211%	87%	57%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	63%	120%	76%	391%	4%	100%	<0.1%	<0.1%	157%	<0.1%	209%	<0.1%	<0.1%	<0.1%	74%	630%	<0.1%	<0.1%	
FSCJ-TMW-3S	FSCJ-TMW-3S	4/7/2022	690	3,000	1,600	1,800	1,200	440	290	2.0 U	300	2.0 U	2.0 U	21	73	120	2,000	90	9,200	32	0.40 U	10,400	10	4,600 I	3,100	0.80 U	0.80 U	350	15,000	36	4.0 U	8%	33%	17%	20%	13%	5%	3%	<0.1%	3%	<0.1%	<0.1%	<1%	<1%	1%	22%	<1%	100%	<1%	<0.1%	113%	<1%	50%	34%	<0.1%	<0.1%	4%	163%	<1%	<0.1%	
FSCJ-TMW-4SR	FSCJ-TMW-4SR	4/6/2022	350	1,500	600	430	300	100	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	12	16	190	13	1,600	0.40 U	0.40 U	1,900	2.0 U	1,300	3.9 I	0.80 U	0.80 U	33	6.9	0.40 U	4.0 U	22%	94%	38%	27%	19%	6%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	1%	12%	<1%	100%	<0.1%	<0.1%	119%	<0.1%	81%	<1%	<0.1%	<0.1%	2%	<1%	<0.1%	<0.1%	
	Dup_FSCJ-TMW-4SR	4/6/2022	370	1,400	570	410	290	120	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	13	15	180	13	1,500	0.40 U	0.40 U	1,790	2.0 U	1,200	3.6 I	0.80 U	0.80 U	29	6.0	0.40 U	4.0 U	25%	93%	38%	27%	19%	8%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	1%	12%	<1%	100%	<0.1%	<0.1%	119%	<0.1%	80%	<1%	<0.1%	<0.1%	2%	<1%	<0.1%	<0.1%	
FSCJ-TMW-4DR	FSCJ-TMW-4DR	4/6/2022	4.0 U	2.7 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	4.0 U	0.40 U	0.40 U	0.80 U	0.80 U	2.0 U	0.40 U	0.40 U	2.0 U	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
FSCJ-TMW-6S	FSCJ-TMW-6S	4/5/2022	200	630	260	310	70	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	7.1 I	33	36	160	2.9 I	47	0.40 U	0.40 U	117	2.0 U	31 I	2.0 U	0.80 U	0.80 U	1.9 I	0.80 U	0.40 U	4.0 U	426%	1340%	553%	660%	149%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	15%	70%	77%	340%	6%	100%	<0.1%	<0.1%	249%	<0.1%	66%	<0.1%	<0.1%	<0.1%	4%	<0.1%	<0.1%	<0.1%	
FSCJ-TMW-6D	FSCJ-TMW-6D	4/5/2022	4.0 U	2.2 I	2.0 U	2.0 U	2.3 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	0.49 I	0.40 U	2.2 I	0.80 U	2.0 U	0.40 U	0.40 U	2.3 I	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
FSCJ-TMW-7SR	FSCJ-TMW-7SR	4/6/2022	99	280	150	120	140	140	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.5	3.2	66	5	1,300	0.40 U	0.40 U	1,440	2.0 U	16 U	2.0 U	0.80 U	0.80 U	5.9	1.7 I	0.40 U	4.0 U	8%	22%	12%	9%	11%	11%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	<1%	5%	<1%	100%	<0.1%	<0.1%	111%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<1%	<1%	<0.1%	<0.1%	
FSCJ-TMW-8S	FSCJ-TMW-8S	4/6/2022	780	3,000	1,300	1,100	490	170	13 I	2.0 U	3.5 I	2.0 U	2.0 U	33	77	78	530	19	1,400	0.61 I	0.40 U	1,890	4.7 I	3,000	98	0.80 U	0.80 U	140	200	1.4 I	4.0 U	56%	214%	93%	79%	35%	12%	<1%	<0.1%	<1%	<0.1%	<0.1%	2%	6%	6%	38%	1%	100%	<0.1%	<0.1%	135%	<1%	214%	7%	<0.1%	<0.1%	10%	14%	<1%	<0.1%	
FSCJ-TMW-9S	FSCJ-TMW-9S	4/6/2022	24	38	13	4.9 I	2.9 I	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	94	130	57	150	0.91 I	23	0.40 U	0.40 U	25.9	2.0 U	16 U	2.0 U	0.80 U	0.80 U	7.8	0.80 U	0.40 U	4.0 U	104%	165%	57%	21%	13%	<0.1%	<17%	<0.1%	<0.1%	<0.1%	<0.1%	409%	565%	248%	652%	4%	100%	<0.1%	<0.1%	113%	<0.1%	<70%	<0.1%	<0.1%	<0.1%	34%	<0.1%	<0.1%	<17%	
FSCJ-TMW-10S	FSCJ-TMW-10S	4/6/2022	120	380	190	120	90	18	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	9.4 I	24	20	300	3.1 I	82	0.40 U	0.40 U	172	2.0 U	87	2.0 U	0.80 U	0.80 U	7.9	0.80 U	0.40 U	4.0 U	146%	463%	232%	146%	110%	22%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	11%	29%	24%	366%	4%	100%	<0.1%	<0.1%	210%	<0.1%	106%	<0.1%	<0.1%	<0.1%	10%	<0.1%	<0.1%	<0.1%	
FSCJ-TMW-11S	FSCJ-TMW-11S	4/8/2022	780	3,400	1,800	1,400	1,100	310	230	5.4 I	340	2.7 I	2.0 U	49	120	210	3,300	120	12,000	36	18	13,100	20	13,000	2,500	10	0.80 U	480	15,000	420	4.0 U	7%	28%	15%	12%	9%	3%	2%	<0.1%	3%	<0.1%	<0.1%	<1%	1%	2%	28%	1%	100%	<1%	<1%	109%	<1%	108%	21%	<0.1%	<0.1%	4%	125%	4%	<0.1%	
FSCJ-TMW-12S	FSCJ-TMW-12S	4/8/2022	230	1,200	630	580	350	180	71	29	110	2.0 U	2.0 U	39	95	180	2,100	55	3,500	17	7.9	3,850	6.0 I	3,200	820	2.2 I	0.80 U	280	3,800	110	4.0 U	7%	34%	18%	17%	10%	5%	2%	<1%	3%	<0.1%	<0.1%	1%	3%	5%	60%	2%	100%	<1%	<1%	110%	<1%	91%	23%	<0.1%	<0.1%	8%	109%	3%	<0.1%	
FSCJ-TMW-13S	FSCJ-TMW-13S	4/6/2022	240	610	630 I	530	270	150	29	2.0 U	4.1 I	2.0 U	2.0 U	280	710	800	4,200	93	2.0 U	0.40 U	0.40 U	270	2.0 U	84	8.6	0.80 U	0.80 U	140	250	1.7	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
	Dup_FSCJ-TMW-13S	4/6/2022	250	560	630 I	460	230	130	29	2.0 U	2.9 I	2.0 U	2.0 U	290	700	730	4,000	90	2.0 U	0.40 U	0.40 U	230	2.0 U	78	9.4	0.80 U	0.80 U	120	260	1.5 I	4.0 U	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	PFOS not detected
FSCJ-TMW-14S	FSCJ-TMW-14S	4/5/2022	38	96	58	64	26	5.4 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	8.2	4.9	42	0.80 U	34	0.40 U	0.40 U	60	2.0 U	16 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.40 U	4.0 U	112%	282%	171%	188%	76%	16%	<12%	<0.1%	<0.1%	<0.1%	<0.1%	<12%	24%	14%	124%	<0.1%	100%	<0.1%	<0.1%	176%	<0.1%	<47%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<12%	
FSCJ-TMW-15S	FSCJ-TMW-15S	4/6/2022	51	130	57	88	57	6.5 I	4.6 I	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	1.1 I	0.96 I	14	0.80 U	70	0.40 U	0.40 U	127	2.0 U	16 U	2.1 I	0.80 U	0.80 U	2.1 I	6.5	0.40 U	4.0 U	73%	186%	81%	126%	81%	9%	7%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	2%	1%	20%	<0.1%	100%	<0.1%	<0.1%	181%	<0.1%	<23%	3%	<0.1%	<0.1%	3%	9%	<0.1%	<0.1%	
FSCJ-TMW-16S	FSCJ-TMW-16S	4/8/2022	560	1,800	1,600	2,700	1,500	1,100	230	2.0 U	20	2.0 U	2.0 U	29	99	130	2,100	110	10,000	14	1.0 I	11,500	2.0 U	1,100	45	0.80 U	0.80 U	160	800	0.91 I	4.0 U	6%	18%	16%	27%	15%	11%	2%	<0.1%	<1%	<0.1%	<0.1%	<1%	<1%	1%	21%	1%	100%	<1%	<0.1%	115%	<0.1%	11%	<1%	<0.1%	<0.1%	2%	8%	<0.1%	<0.1%	
FSCJ-TMW-17S	FSCJ-TMW-17S	4/8/2022	420	1,200	950	1,600	720	370	340	2.0 U	240	2.0 U	2.0 U	27	99	130	2,200	59	6,900	20	0.40 U	7,620	2.0 U	180	34	0.80 U	0.80 U	100	480	2.8	4.0 U	6%	17%	14%	23%	10%	5%	5%	<0.1%	3%	<0.1%	<0.1%	<1%	1%	2%	32%	<1%	100%	<1%	<0.1%	110%	<0.1%	3%	<1%	<0.1%	<0.1%	1%	7%	<0.1%	<0.1%	
FSCJ-TMW-18S	FSCJ-TMW-18S	4/8/2022	55	140	210	100	130	430	49	2.0 U	1,800	2.9 I	2.0 U	63 I	200	290	3,600	70	2,400	27	2.8	2,530	2.0 U	16 U	2.0 U	0.80 U	0.80 U	96	240	9.6	4.0 U	2%	6%	9%	4%	5%	18%	2%	<0.1%	75%	<1%	<0.1%	3%	8%	12%	150%	3%	100%	1%	<1%	105%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	4%	10%	<1%	<0.1%	
	Dup_FSCJ-TMW-18S	4/8/2022	51	150	230	93	150	400	48	2.0 U	1,500	5.7 I	2.0 U	60 I	190	280	3,100	67	2,200	31	3.0	2,350	2.0 U	16 U	2.0 U	0.80 U	0.80 U	91	220	8.5	4.0 U	2%	7%	10%	4%	7%	18%	2%	<0.1%	68%	<1%	<0.1%	3%	9%	13%	141%	3%	100%	1%	<1%	107%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	4%	10%	<1%	<0.1%	
FSCJ-TMW-20S	FSCJ-TMW-20S	4/6/2022	150	370	200	66	25	7.9 I	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	50	40	210	0.80 U	110	0.40 U	0.40 U	135	2.0 U	28 I	2.0 U	0.80 U	0.80 U	1.4 I	0.80 U	0.40 U	4.0 U	136%	336%	182%	60%	23%	7%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	45%	36%	191%	<0.1%	100%	<0.1%	<0.1%	123%	<0.1%	25%	<0.1%	<0.1%	<0.1%	1%	<0.1%	<0.1%	<0.1%	
Ansulite 3 x 3	Ansulite 3 x 3	12/15/2021	210	250	2,800	50 U	25	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	50 U	240	25 U	25 U	265	25 U	7,700	25 U	25 U	25 U	50 U	25 UJ	25 U	25 U	88%	104%	1167%	<10%	10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<10%	<21%	100%	<10%	<10%	110%	<10%	3208%	<10%	<10%	<10%	<21%	<10%	<10%	<10%	Raw product sampled onsite

Notes:
Provisional GCTL - FDEP Provisional Groundwater Cleanup Target Level
Provisional SWCTL - FDEP Provisional Surface Water Cleanup Target Level
All results are reported in nanograms per liter (ng/L)
Please refer to Table 10 for additional details regarding groundwater analytical results.
Concentrations of carboxylates and sulfonates sorted from shortest to longest carbon chain compounds
Percent relative abundance (to PFOS) calculated by dividing compound concentration by the PFOS concentration
Cells highlighted in blue indicate constituent concentration was reported above the Provisional FDEP Groundwater Cleanup Target Level.
Cells highlighted in orange indicate percent relative abundance greater than 100%.
Bold font indicates constituent concentration was reported above the laboratory method detection limit.
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
J - Estimated value and/or the analysis did not meet established quality control criteria.

PFOA	Perfluorooctanoic acid	PFDA	Perfluorodecanoic acid
PFOS	Perfluorooctanesulfonic acid	PFDoA	Perfluorododecanoic acid
4:2 FTS	4:2 Fluorotelomer sulfonate	PFHpS	Perfluoroheptanesulfonic acid
6:2 FTS	6:2 Fluorotelomer sulfonate	PFHpA	Perfluoroheptanoic acid
8:2 FTS	8:2 Fluorotelomer sulfonate	PFHxS	Perfluorohexanesulfonic acid
HODA	Hexafluoropropylene oxide dimer acid	PFHxA	Perfluorohexanoic acid
N-Et	N-Et perfluorooctanesulfonamidoAc acid	PFNS	Perfluorononanesulfonic acid
N-Me	N-Me perfluorooctanesulfonamidoAc acid	PFNA	Perfluorononanoic acid
FBSA	Perfluoro-1-butane sulfonamide	PFPeS	Perfluoropentanesulfonic acid
FHxSA	Perfluoro-1-hexane sulfonamide	PFPeA	Perfluoropentanoic acid
FOSA	Perfluoro-1-octane sulfonamide	PFTeA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid	PFTriA	Perfluorotridecanoic acid
PFBA	Perfluorobutanoic acid	PFUnA	Perfluoroundecanoic acid
PFDS	Perfluorodecanesulfonic acid		

FIGURES



REFERENCE(S)

1. USGS TOPOGRAPHIC MAP, 7.5 MIN. QUADRANGLE MAP SERIES: ARLINGTON QUADRANGLE, DUVAL COUNTY, FLORIDA.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

TITLE
SITE LOCATION MAP

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C001		1

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- PARCEL BOUNDARY

REFERENCE(S)

1. AERIAL IMAGERY COURTESY OF USGS, MICROSOFT CORPORATION, AND bing©
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

0 300 600
SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
wsp GOLDER

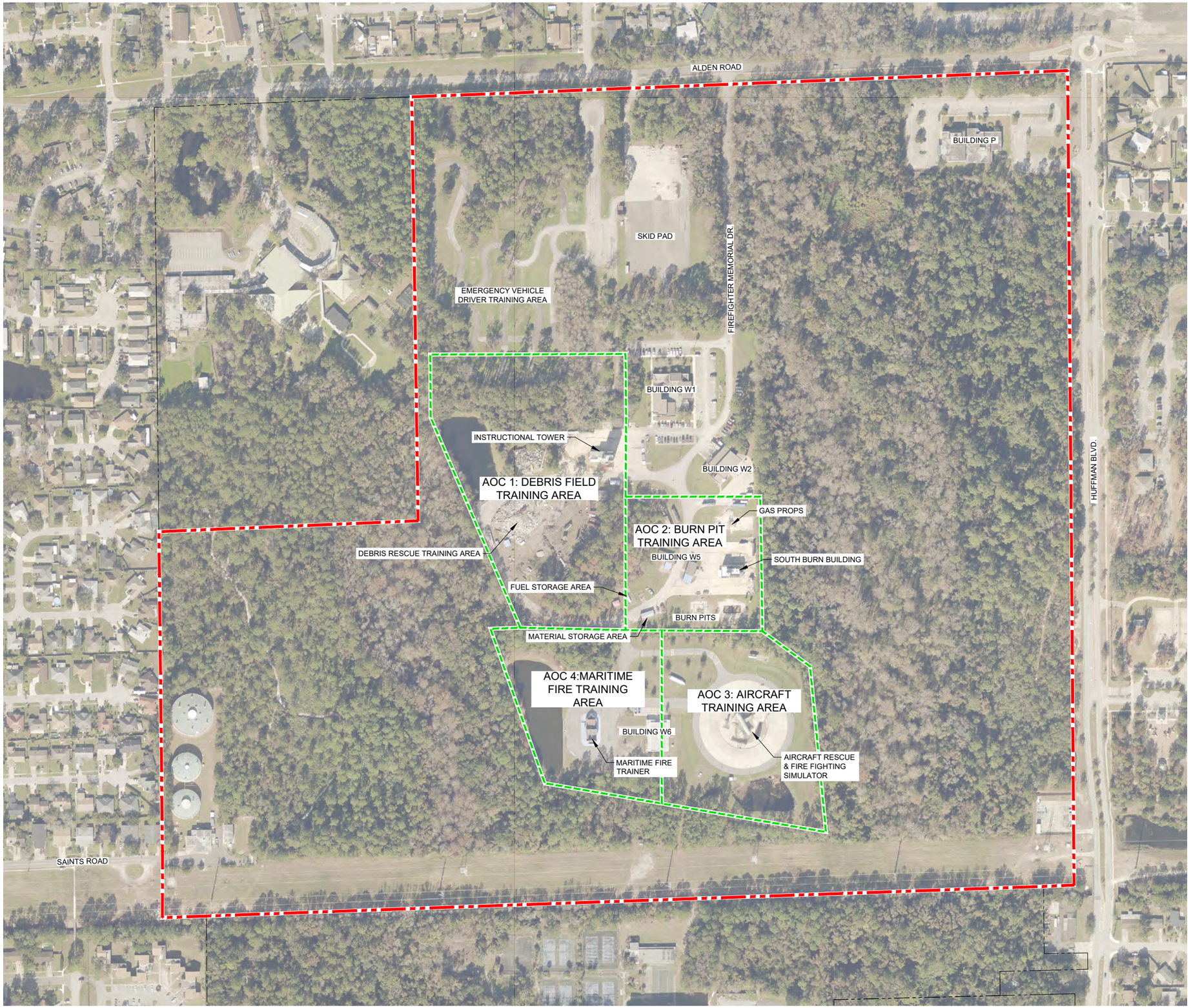
YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SITE VICINITY MAP

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C002A		2

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- APPROXIMATE SUBJECT PROPERTY
- PARCEL BOUNDARY
- AREAS OF CONCERN

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

0 150 300
SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SITE MAP

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C002		3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- SOIL SAMPLE LOCATIONS
- SEDIMENT SAMPLE LOCATIONS
- VERTICAL GROUNDWATER PROFILING LOCATIONS
- SEDIMENT SURFACE WATER SAMPLE LOCATIONS
- EXPLORATORY SOIL BORING

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

0 80 160
SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
MONITORING WELL LOCATION MAP

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C003		4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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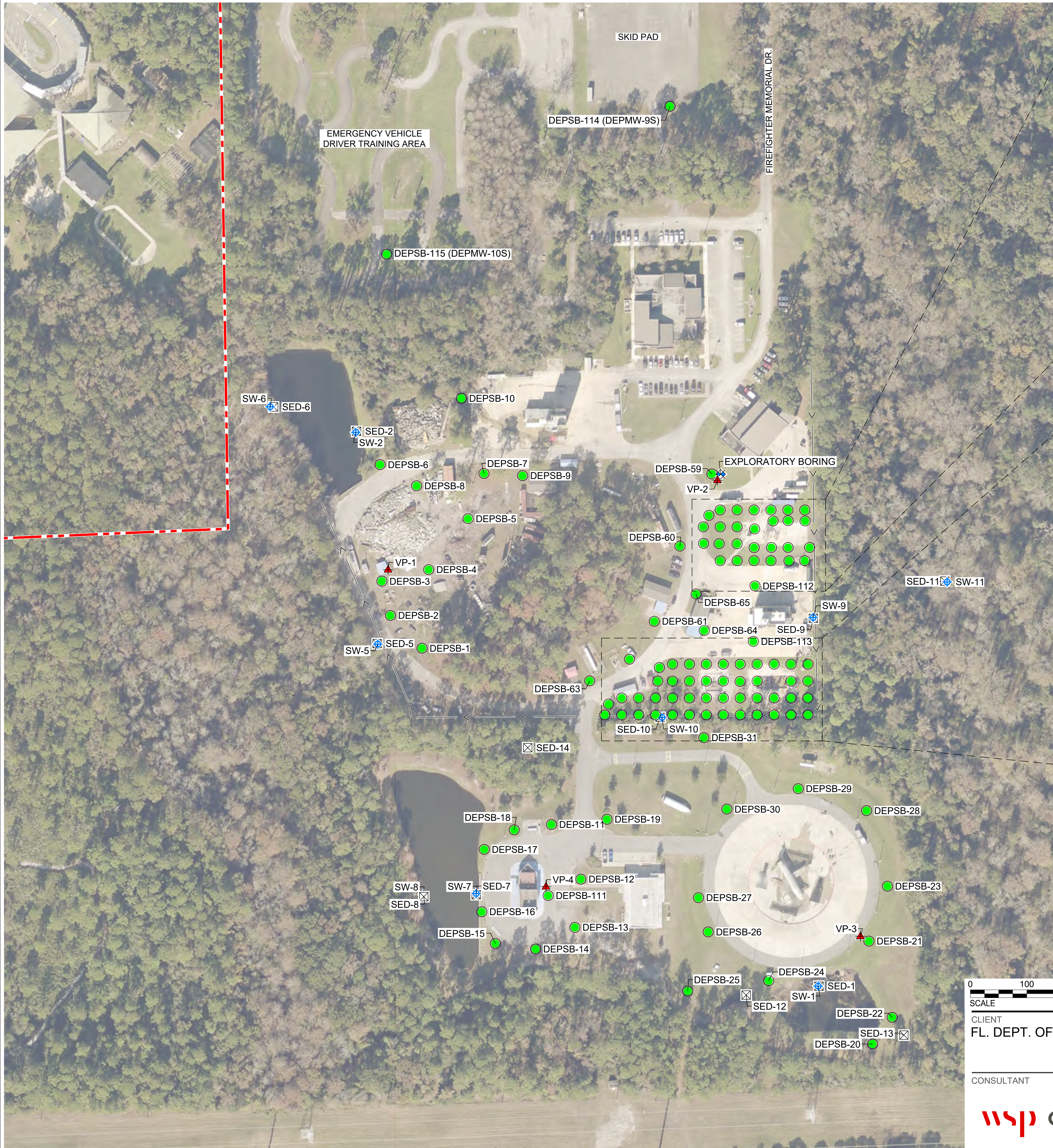
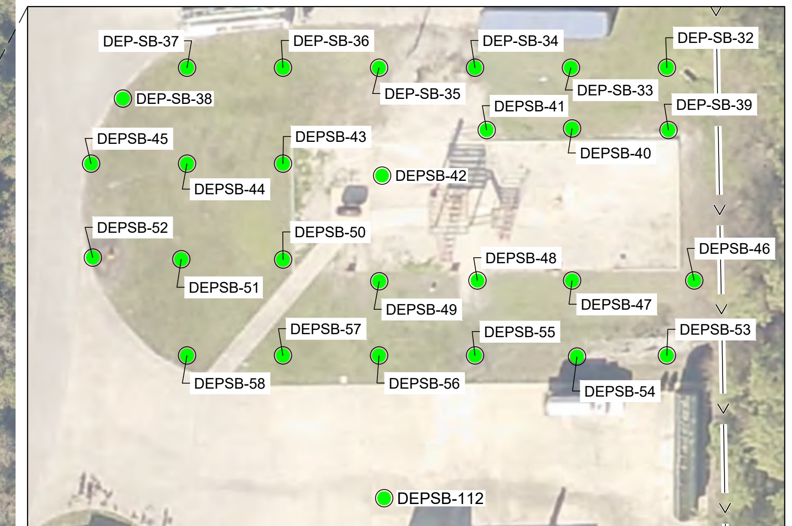
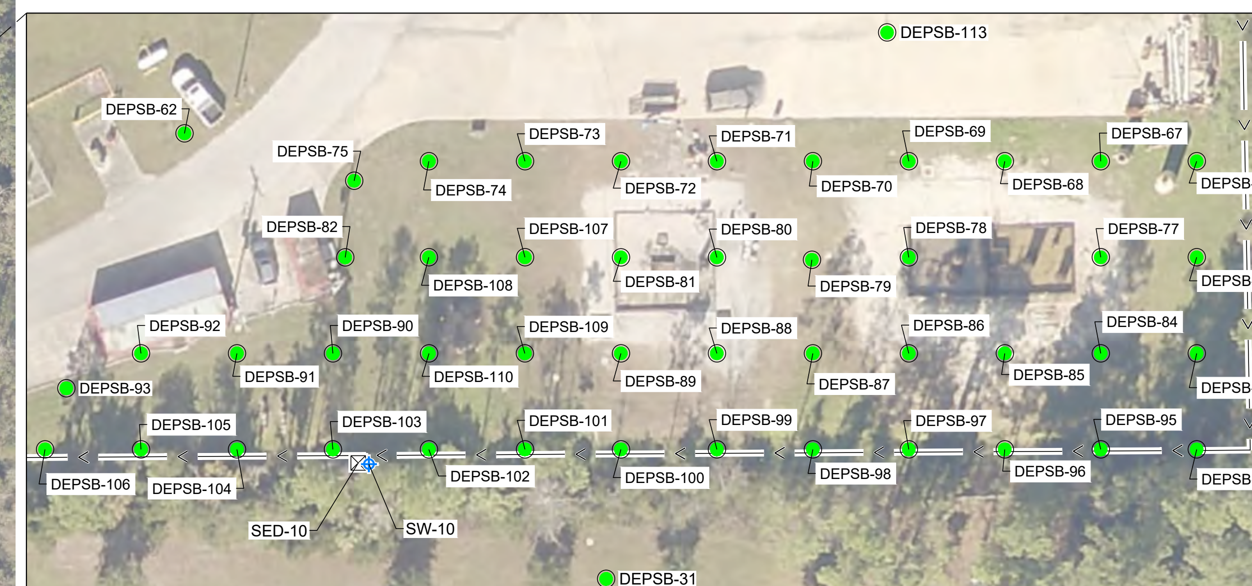

SKID PAD
EMERGENCY VEHICLE DRIVER TRAINING AREA
FIREFIGHTER MEMORIAL DR
DEPSB-114 (DEPMW-9S)
DEPSB-115 (DEPMW-10S)
SW-6
SED-6
SED-2
SW-2
DEPSB-10
DEPSB-6
DEPSB-7
DEPSB-9
DEPSB-8
DEPSB-5
DEPSB-59
EXPLORATORY BORING
VP-2
DEPSB-60
VP-1
DEPSB-4
DEPSB-3
DEPSB-112
DEPSB-65
SED-11
SW-11
SW-9
DEPSB-61
DEPSB-64
SED-9
DEPSB-113
DEPSB-2
SED-5
SW-5
DEPSB-1
DEPSB-63
SED-10
SW-10
DEPSB-31
SED-14
DEPSB-29
DEPSB-30
DEPSB-28
DEPSB-18
DEPSB-11
DEPSB-19
DEPSB-17
VP-4
DEPSB-12
SW-8
SED-8
SW-7
SED-7
DEPSB-111
DEPSB-16
DEPSB-27
DEPSB-23
DEPSB-13
DEPSB-15
DEPSB-26
VP-3
DEPSB-21
DEPSB-14
DEPSB-24
DEPSB-25
SED-1
SW-1
SED-12
DEPSB-22
SED-13
DEPSB-20
0 100 200
SCALE FEET



AOC 2: BURN PIT TRAINING AREA (NORTH)

0 30 60
SCALE FEET


DEPSB-113
DEPSB-62
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DEPSB-69
DEPSB-67
DEPSB-74
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DEPSB-70
DEPSB-68
DEPSB-66
DEPSB-82
DEPSB-107
DEPSB-80
DEPSB-78
DEPSB-77
DEPSB-108
DEPSB-81
DEPSB-79
DEPSB-76
DEPSB-92
DEPSB-90
DEPSB-109
DEPSB-88
DEPSB-86
DEPSB-84
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DEPSB-93
DEPSB-83
DEPSB-105
DEPSB-103
DEPSB-101
DEPSB-99
DEPSB-97
DEPSB-95
DEPSB-106
DEPSB-104
DEPSB-102
DEPSB-100
DEPSB-98
DEPSB-96
DEPSB-94
SED-10
SW-10
DEPSB-31

AOC 2: BURN PIT TRAINING AREA (SOUTH)

0 30 60
SCALE FEET

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SOIL SAMPLE LOCATIONS
- SEDIMENT SAMPLE LOCATIONS
- VERTICAL GROUNDWATER PROFILING LOCATIONS
- SEDIMENT SURFACE WATER SAMPLE LOCATIONS
- EXPLORATORY SOIL BORING

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

TITLE
SOIL, SEDIMENT, SURFACE WATER, & VERTICAL GROUNDWATER PROFILE LOCATIONS

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C004		5

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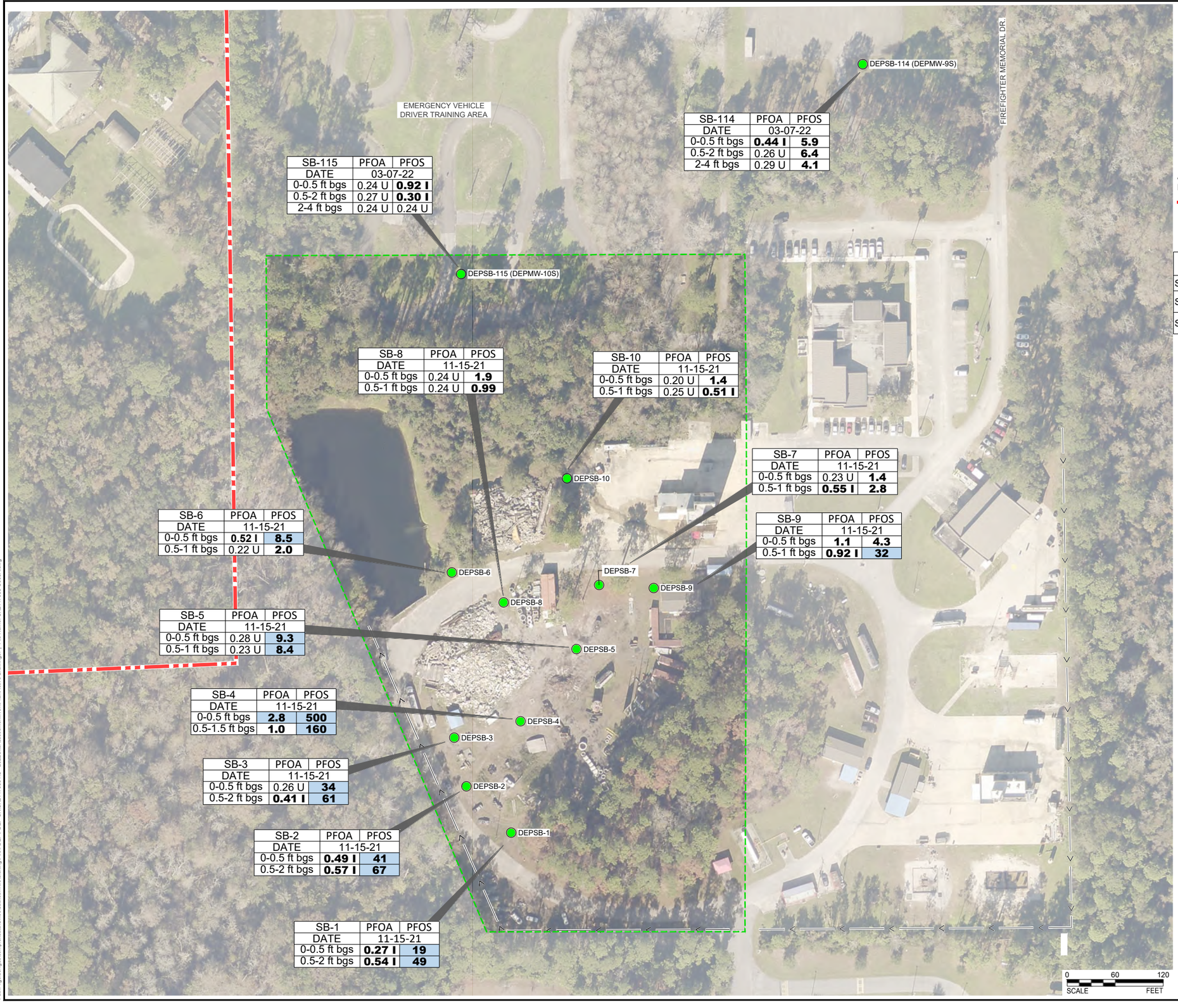

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SOIL SAMPLE LOCATIONS

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

NOTE(S)

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. FEET-BGS - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
wsp GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SOIL SAMPLE ANALYTICAL RESULTS (AOC 1 AND EMERGENCY VEHICLE DRIVER TRAINING AREA)

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C005A		5A

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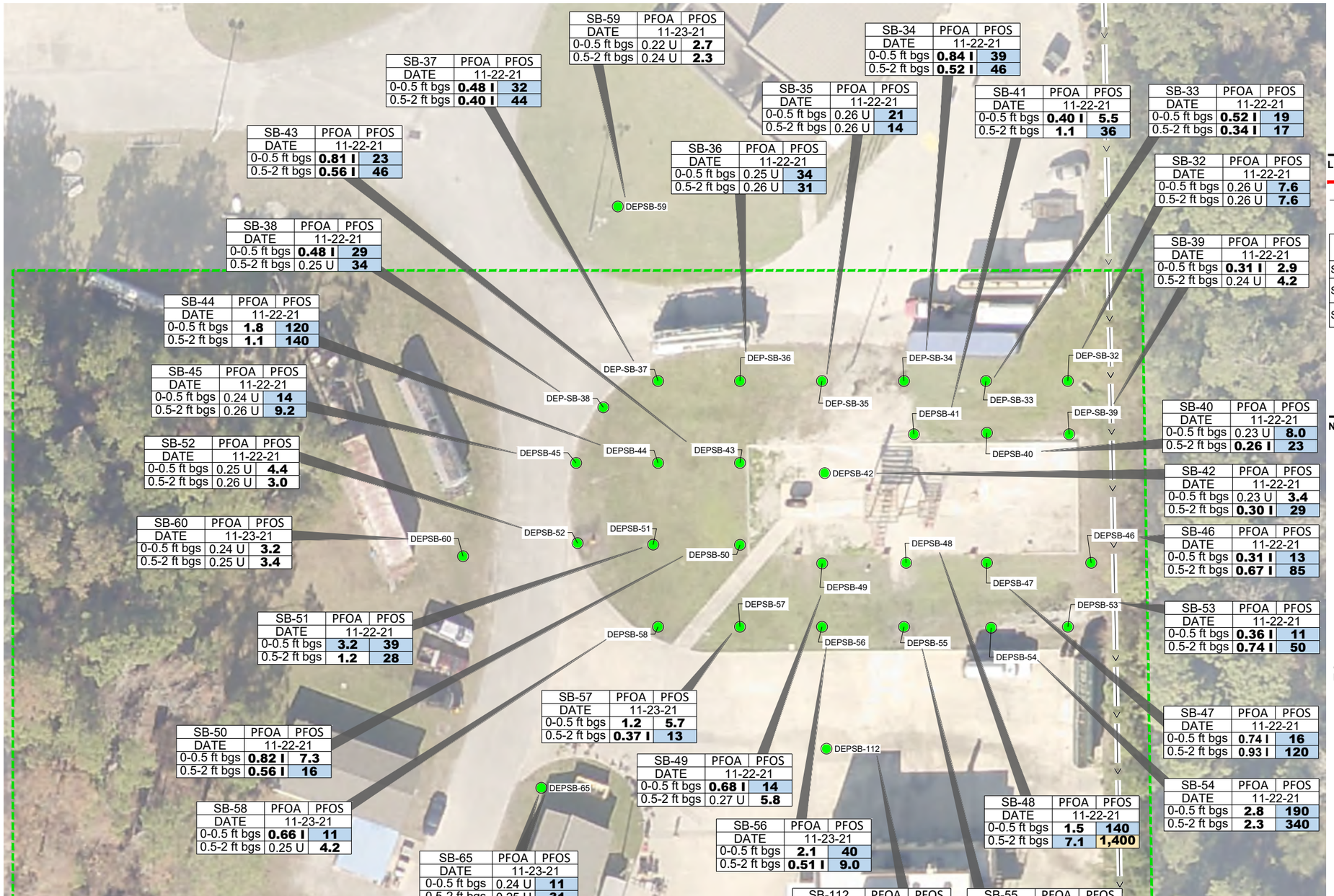

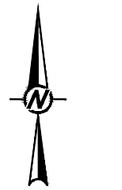

0 20 40
SCALE FEET

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SOIL SAMPLE LOCATIONS

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

NOTE(S)

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. FEET-BGS - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SOIL SAMPLE ANALYTICAL RESULTS (AOC 2 NORTH)

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C005A		5B

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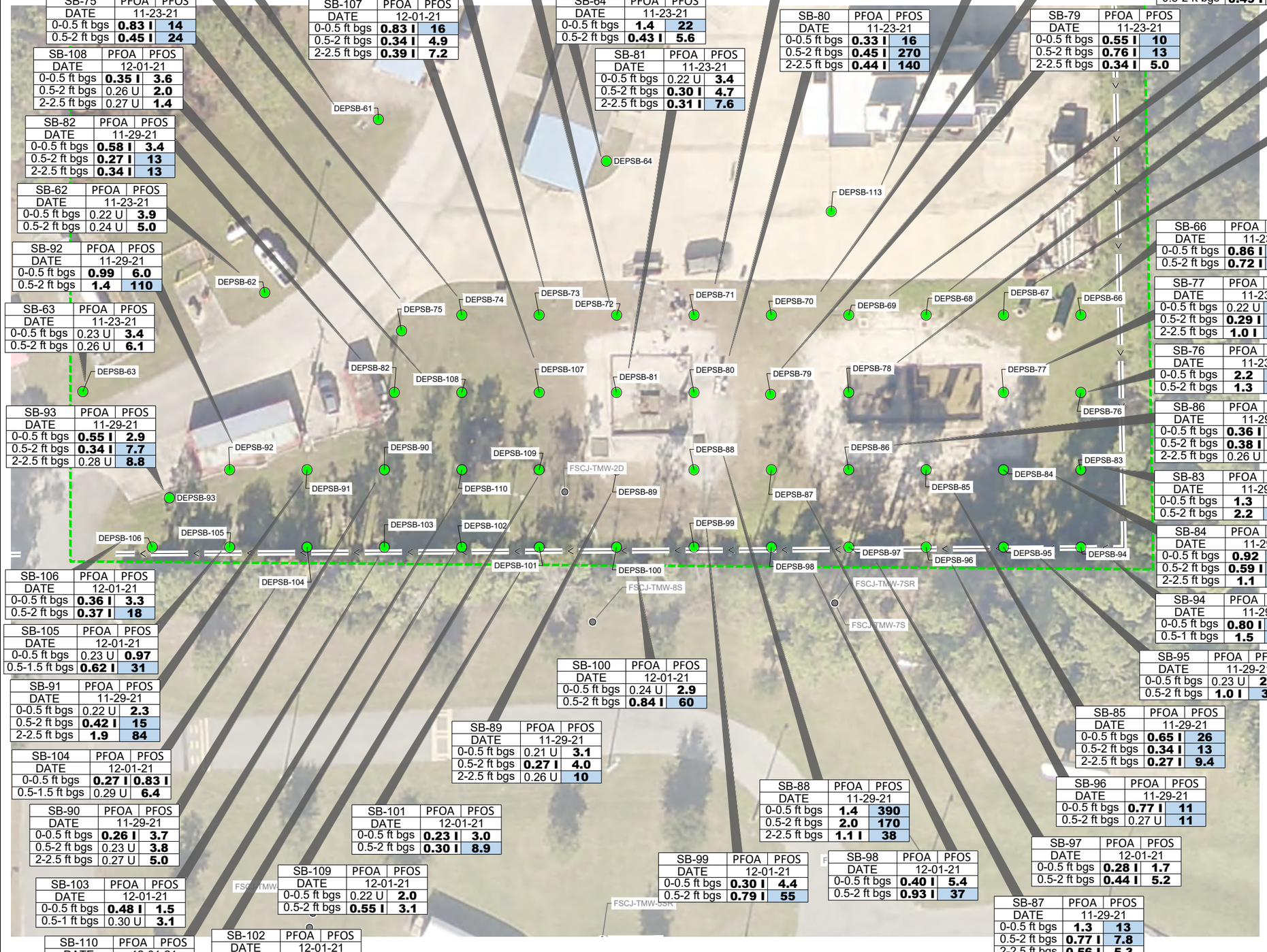

SB-74	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**4.7**	**3.7**
0.5-2 ft bgs	**1.0**	**3.2**

SB-61	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	0.23 U	**3.7**
0.5-2 ft bgs	0.24 U	**1.9**

SB-73	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.67 I**	**9.4**
0.5-2 ft bgs	**0.32 I**	**4.1**

SB-72	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.64 I**	**5.5**
0.5-2 ft bgs	**1.1**	**42**

SB-71	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.56 I**	**7.1**
0.5-2 ft bgs	0.25 U	**1.6**

SB-113	PFOA	PFOS
DATE	12-15-21	
0-0.5 ft bgs	**1.8**	**2.5**
0.5-2 ft bgs	**0.50 I**	**1.9**

SB-70	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	0.22 U	**5.6**
0.5-2 ft bgs	**0.36 I**	**2.3**

SB-69	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**1.1**	**7.2**
0.5-2 ft bgs	**0.49 I**	**2.9**

SB-68	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**2.0**	**37**
0.5-2 ft bgs	**1.6**	**47**

SB-78	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.78 I**	**21**
0.5-2 ft bgs	0.21 U	**7.7**
2-2.5 ft bgs	0.22 U	**6.2**

SB-67	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.78 I**	**17**
0.5-2 ft bgs	**2.4**	**50**

SB-75	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.83 I**	**14**
0.5-2 ft bgs	**0.45 I**	**24**

SB-107	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.83 I**	**16**
0.5-2 ft bgs	**0.34 I**	**4.9**
2-2.5 ft bgs	**0.39 I**	**7.2**

SB-64	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**1.4**	**22**
0.5-2 ft bgs	**0.43 I**	**5.6**

SB-81	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	0.22 U	**3.4**
0.5-2 ft bgs	**0.30 I**	**4.7**
2-2.5 ft bgs	**0.31 I**	**7.6**

SB-80	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.33 I**	**16**
0.5-2 ft bgs	**0.45 I**	**270**
2-2.5 ft bgs	**0.44 I**	**140**

SB-79	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.55 I**	**10**
0.5-2 ft bgs	**0.76 I**	**13**
2-2.5 ft bgs	**0.34 I**	**5.0**

SB-108	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.35 I**	**3.6**
0.5-2 ft bgs	0.26 U	**2.0**
2-2.5 ft bgs	0.27 U	**1.4**

SB-82	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.58 I**	**3.4**
0.5-2 ft bgs	**0.27 I**	**13**
2-2.5 ft bgs	**0.34 I**	**13**

SB-62	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	0.22 U	**3.9**
0.5-2 ft bgs	0.24 U	**5.0**

SB-92	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.99**	**6.0**
0.5-2 ft bgs	**1.4**	**110**

SB-63	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	0.23 U	**3.4**
0.5-2 ft bgs	0.26 U	**6.1**

SB-93	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.55 I**	**2.9**
0.5-2 ft bgs	**0.34 I**	**7.7**
2-2.5 ft bgs	0.28 U	**8.8**

SB-106	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.36 I**	**3.3**
0.5-2 ft bgs	**0.37 I**	**18**

SB-105	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	0.23 U	**0.97**
0.5-1.5 ft bgs	**0.62 I**	**31**

SB-91	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	0.22 U	**2.3**
0.5-2 ft bgs	**0.42 I**	**15**
2-2.5 ft bgs	**1.9**	**84**

SB-104	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.27 I**	**0.83 I**
0.5-1.5 ft bgs	0.29 U	**6.4**

SB-90	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.26 I**	**3.7**
0.5-2 ft bgs	0.23 U	**3.8**
2-2.5 ft bgs	0.27 U	**5.0**

SB-103	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.48 I**	**1.5**
0.5-1 ft bgs	0.30 U	**3.1**

SB-110	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.93 I**	**30**
0.5-2 ft bgs	**0.52 I**	**16**

SB-102	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**1.7**	**85**
0.5-1 ft bgs	**0.78 I**	**60**

SB-109	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	0.22 U	**2.0**
0.5-2 ft bgs	**0.55 I**	**3.1**

SB-100	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	0.24 U	**2.9**
0.5-2 ft bgs	**0.84 I**	**60**

SB-89	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	0.21 U	**3.1**
0.5-2 ft bgs	**0.27 I**	**4.0**
2-2.5 ft bgs	0.26 U	**10**

SB-101	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.23 I**	**3.0**
0.5-2 ft bgs	**0.30 I**	**8.9**

SB-88	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**1.4**	**390**
0.5-2 ft bgs	**2.0**	**170**
2-2.5 ft bgs	**1.1 I**	**38**

SB-99	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.30 I**	**4.4**
0.5-2 ft bgs	**0.79 I**	**55**

SB-98	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.40 I**	**5.4**
0.5-2 ft bgs	**0.93 I**	**37**

SB-87	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**1.3**	**13**
0.5-2 ft bgs	**0.77 I**	**7.8**
2-2.5 ft bgs	**0.56 I**	**5.3**

SB-66	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**0.86 I**	**8.5**
0.5-2 ft bgs	**0.72 I**	**37**

SB-77	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	0.22 U	**8.1**
0.5-2 ft bgs	**0.29 I**	**42**
2-2.5 ft bgs	**1.0 I**	**85**

SB-76	PFOA	PFOS
DATE	11-23-21	
0-0.5 ft bgs	**2.2**	**14**
0.5-2 ft bgs	**1.3**	**34**

SB-86	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.36 I**	**5.9**
0.5-2 ft bgs	**0.38 I**	**2.9**
2-2.5 ft bgs	0.26 U	**4.6**

SB-83	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**1.3**	**6.5**
0.5-2 ft bgs	**2.2**	**23**

SB-84	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.92**	**9.7**
0.5-2 ft bgs	**0.59 I**	**18**
2-2.5 ft bgs	**1.1**	**52**

SB-94	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.80 I**	**61**
0.5-1 ft bgs	**1.5**	**57**

SB-95	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	0.23 U	**2.7**
0.5-2 ft bgs	**1.0 I**	**39**

SB-85	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.65 I**	**26**
0.5-2 ft bgs	**0.34 I**	**13**
2-2.5 ft bgs	**0.27 I**	**9.4**

SB-96	PFOA	PFOS
DATE	11-29-21	
0-0.5 ft bgs	**0.77 I**	**11**
0.5-2 ft bgs	0.27 U	**11**

SB-97	PFOA	PFOS
DATE	12-01-21	
0-0.5 ft bgs	**0.28 I**	**1.7**
0.5-2 ft bgs	**0.44 I**	**5.2**

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SCALE FEET

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SOIL SAMPLE LOCATIONS

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

NOTE(S)

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. FEET-BGS - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SOIL SAMPLE ANALYTICAL RESULTS (AOC 2 SOUTH)

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C005A		5C

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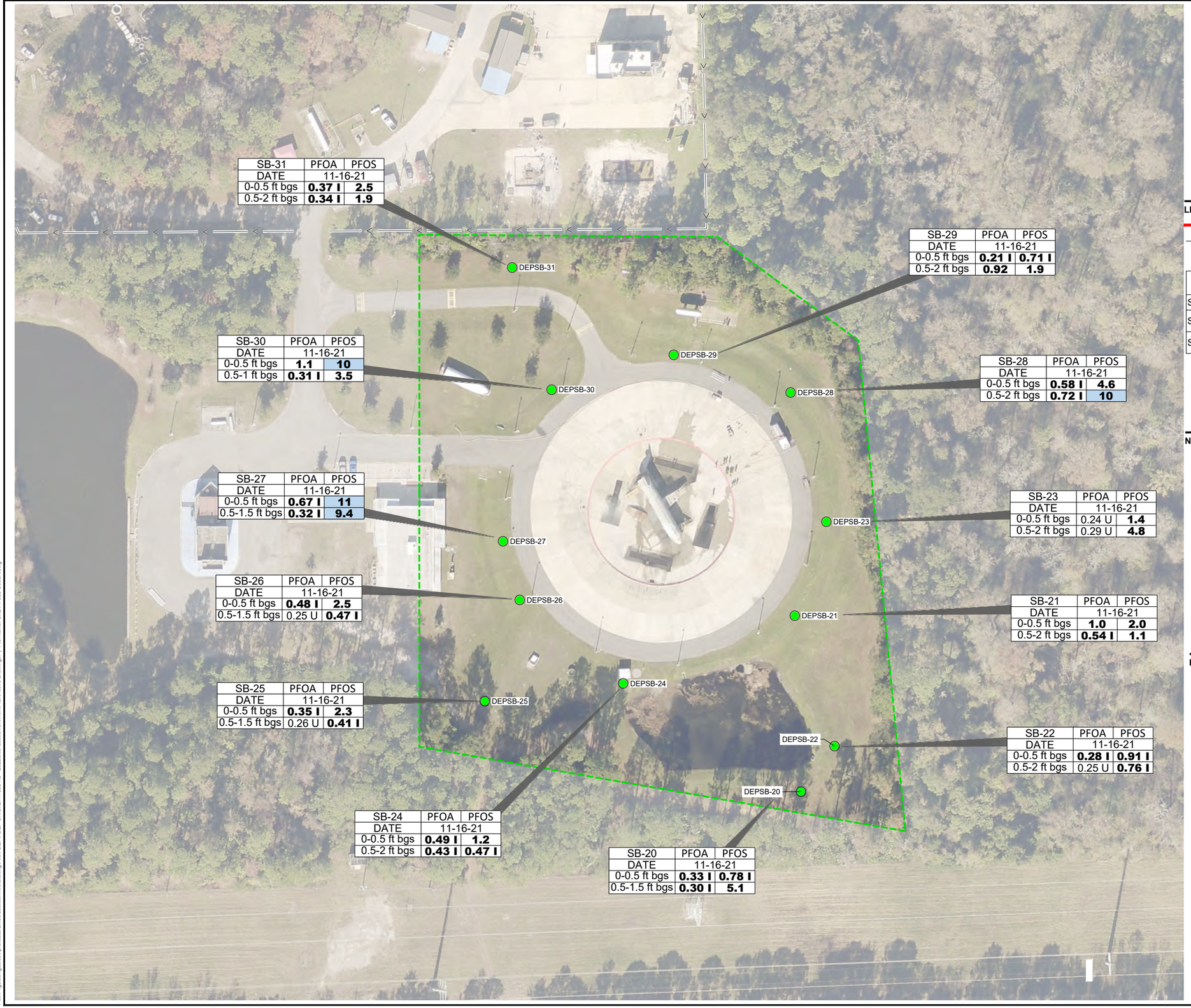

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SCALE FEET

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SOIL SAMPLE LOCATIONS

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

NOTE(S)

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. FEET-BGS - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

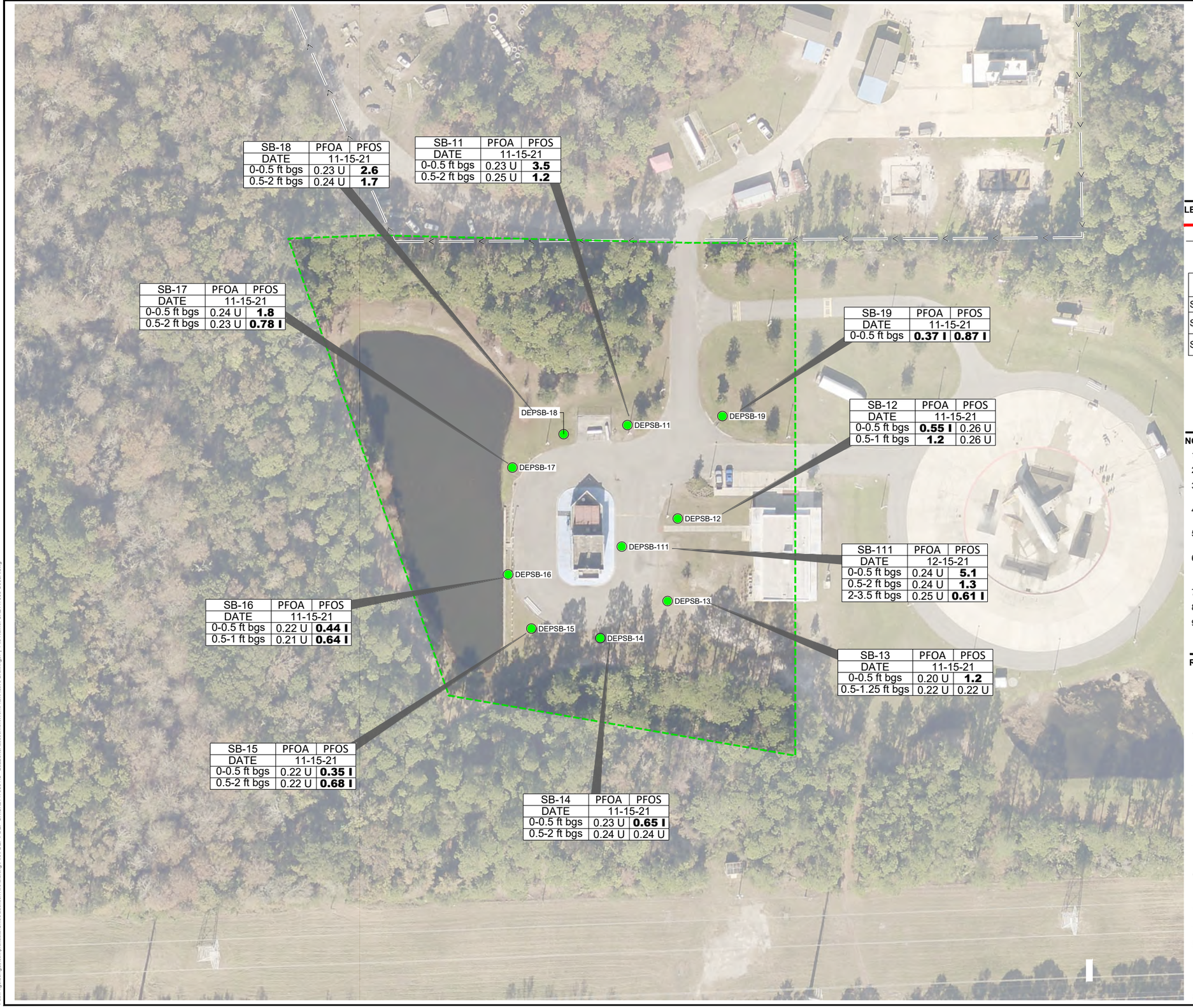
CONSULTANT
wsp GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SOIL SAMPLE ANALYTICAL RESULTS (AOC 3)

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C005A		5D



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SCALE FEET

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SOIL SAMPLE LOCATIONS

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

NOTE(S)

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. FEET-BGS - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

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PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SOIL SAMPLE ANALYTICAL RESULTS (AOC 4)

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C005A		5E

LEGEND

APPROXIMATE SUBJECT PROPERTY

APPROXIMATE DITCH LAYOUT

SEDIMENT SAMPLE LOCATIONS

PROVISIONAL SOIL CLEANUP TARGET LEVELS (SCTL)	PFOA IN µg/Kg	PFOS IN µg/Kg
SCTL-LEACHABILITY	2	7
SCTL-RESIDENTIAL	1,300	1,300
SCTL-INDUSTRIAL	25,000	25,000

NOTE(S)

1. PROVISIONAL SCTL - FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER KILOGRAM (µg/kg).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE FDEP PROVISIONAL SOIL CLEANUP TARGET LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. FEET-BGS - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

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SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT

WSP GOLDER

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PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SEDIMENT SAMPLE ANALYTICAL RESULTS

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C006		6

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SEDIMENT SURFACE WATER SAMPLE LOCATIONS
- EXPLORATORY SOIL BORING

PROVISIONAL SURFACE WATER SCREENING LEVELS	PFOA IN ng/L	PFOS IN ng/L
HUMAN HEALTH (Based on consumption of freshwater and estuarine finfish and shellfish)	500	10
ECOLOGICAL (FRESHWATER)	1,300,000	37,000
ECOLOGICAL (MARINE)	NOT DETERMINED	13,000

NOTE(S)

1. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
2. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
3. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL FDEP SURFACE WATER SCREENING LEVEL FOR HUMAN HEALTH.
4. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
5. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
6. PFOA - PERFLUORO-N-OCTANOIC ACID.
7. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

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FL. DEPT. OF ENVIRONMENTAL PROTECTION

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WSP GOLDER

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PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
SURFACE WATER ANALYTICAL RESULTS

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C006		7

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LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- SOIL SAMPLE LOCATIONS
- SEDIMENT SAMPLE LOCATIONS
- VERTICAL GROUNDWATER PROFILING LOCATIONS
- SEDIMENT SURFACE WATER SAMPLE LOCATIONS
- EXPLORATORY SOIL BORING
- (36.36) GROUNDWATER ELEVATION
- 37.00 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- ESTIMATED GROUNDWATER FLOW DIRECTION

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

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SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

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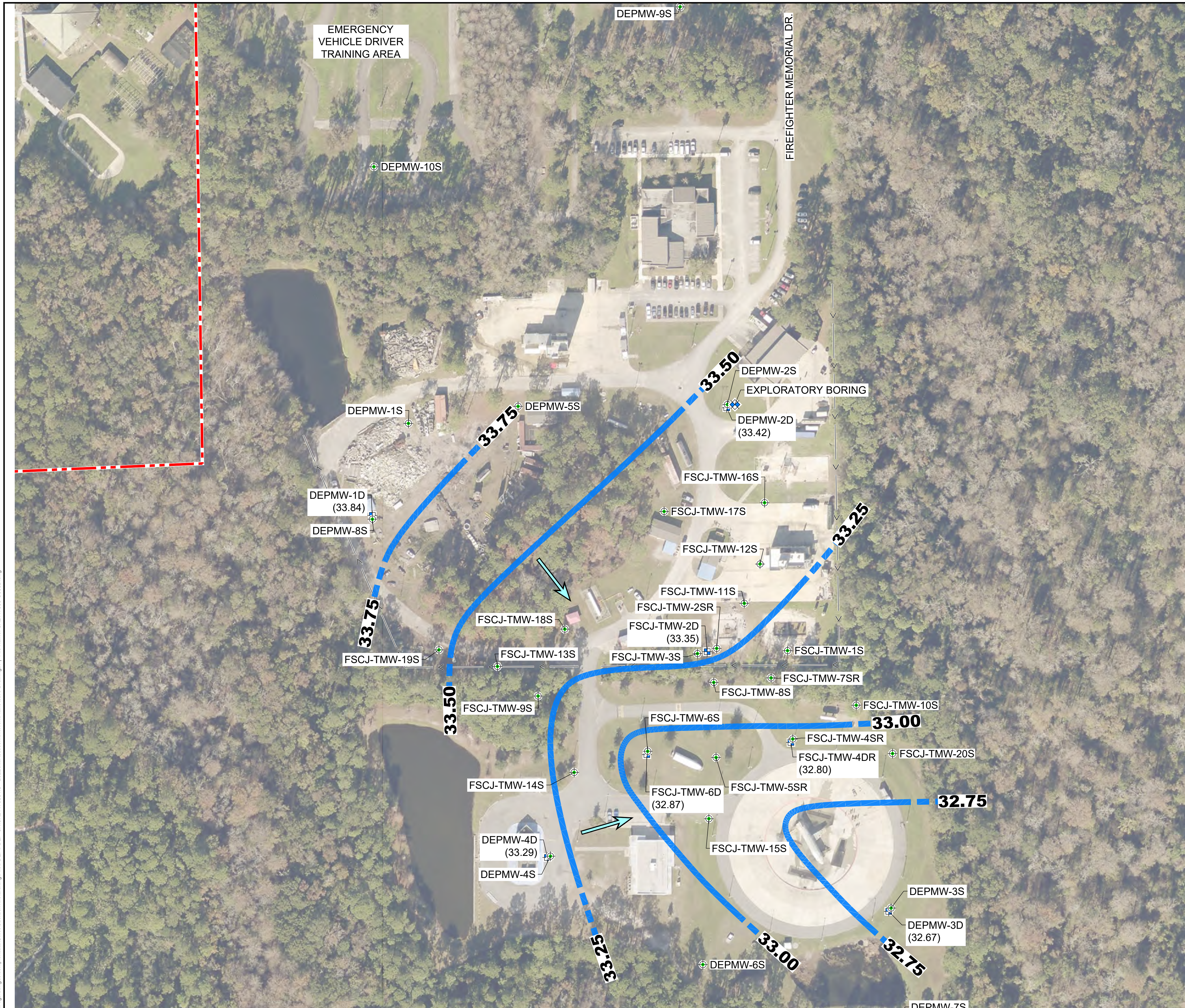
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
POTENTIOMETRIC SURFACE MAP OF THE SHALLOW SURFICIAL AQUIFER
(APRIL 2022)

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C009A		8



LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SHALLOW MONITORING WELL LOCATION
- DEEP MONITORING WELL LOCATION
- SOIL SAMPLE LOCATIONS
- SEDIMENT SAMPLE LOCATIONS
- VERTICAL GROUNDWATER PROFILING LOCATIONS
- SEDIMENT SURFACE WATER SAMPLE LOCATIONS
- EXPLORATORY SOIL BORING
- (36.36) GROUNDWATER ELEVATION
- 37.00 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- ESTIMATED GROUNDWATER FLOW DIRECTION

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

0 80 160
SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
POTENTIOMETRIC SURFACE MAP OF THE DEEP SURFICIAL AQUIFER
(APRIL 2022)

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C009B		9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

VP-1	PFOA	PFOS	PFOA + PFOS
DATE	03-08-22		
20-24 ft bgs	**330**	**12,000**	**12,330**
36-40 ft bgs	**1,400**	**8,900**	**10,300**
48-52 ft bgs	**34**	**310**	**344**

VP-2	PFOA	PFOS	PFOA + PFOS
DATE	03-08-22		
20-24 ft bgs	**370**	**5,300**	**5,670**
36-40 ft bgs	**18**	**39**	**57**
48-52 ft bgs	**3.1 I**	**55**	**58**

VP-4	PFOA	PFOS	PFOA + PFOS
DATE	03-08-22		
20-24 ft bgs	**23**	**300**	**323**
36-40 ft bgs	**6.3 I**	**15**	**21**
48-52 ft bgs	**67**	**740**	**807**

VP-3	PFOA	PFOS	PFOA + PFOS
DATE	12-14-21		
20-24 ft bgs	2.0 U	2.0 U	2.0 U
DATE	03-07-22		
20-24 ft bgs	2.0 U	2.0 U	2.0 U
36-40 ft bgs	2.0 U	2.0 U	2.0 U
48-52 ft bgs	2.0 U	2.0 U	2.0 U

LEGEND

APPROXIMATE SUBJECT PROPERTY

APPROXIMATE DITCH LAYOUT

VERTICAL GROUNDWATER PROFILING LOCATIONS

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
GCTL	70	70	70

REFERENCE(S)

1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. PFOA - PERFLUORO-N-OCTANOIC ACID.
8. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-05-27
DESIGNED	SCN/JWS
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
VERTICAL GROUNDWATER PROFILING ANALYTICAL RESULTS

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C006		10

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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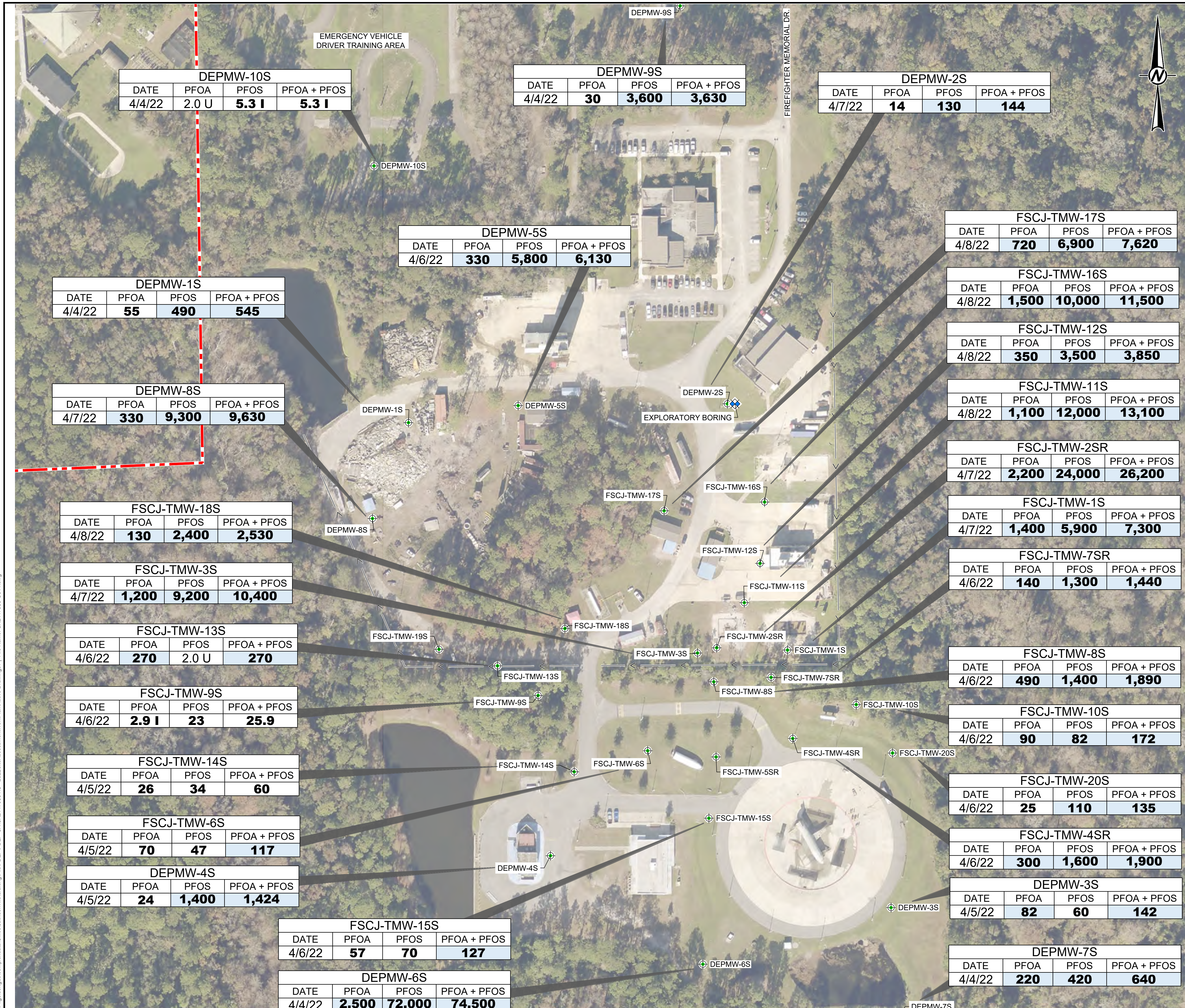


DEPMW-10S			
DATE	PFOA	PFOS	PFOA + PFOS
4/4/22	2.0 U	**5.3 I**	**5.3 I**

DEPMW-9S			
DATE	PFOA	PFOS	PFOA + PFOS
4/4/22	**30**	**3,600**	**3,630**

DEPMW-2S			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	**14**	**130**	**144**

DEPMW-5S			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**330**	**5,800**	**6,130**

DEPMW-1S			
DATE	PFOA	PFOS	PFOA + PFOS
4/4/22	**55**	**490**	**545**

DEPMW-8S			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	**330**	**9,300**	**9,630**

FSCJ-TMW-18S			
DATE	PFOA	PFOS	PFOA + PFOS
4/8/22	**130**	**2,400**	**2,530**

FSCJ-TMW-3S			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	**1,200**	**9,200**	**10,400**

FSCJ-TMW-13S			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**270**	2.0 U	**270**

FSCJ-TMW-9S			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**2.9 I**	**23**	**25.9**

FSCJ-TMW-14S			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	**26**	**34**	**60**

FSCJ-TMW-6S			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	**70**	**47**	**117**

DEPMW-4S			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	**24**	**1,400**	**1,424**

FSCJ-TMW-15S			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**57**	**70**	**127**

DEPMW-6S			
DATE	PFOA	PFOS	PFOA + PFOS
4/4/22	**2,500**	**72,000**	**74,500**

FSCJ-TMW-17S			
DATE	PFOA	PFOS	PFOA + PFOS
4/8/22	**720**	**6,900**	**7,620**

FSCJ-TMW-16S			
DATE	PFOA	PFOS	PFOA + PFOS
4/8/22	**1,500**	**10,000**	**11,500**

FSCJ-TMW-12S			
DATE	PFOA	PFOS	PFOA + PFOS
4/8/22	**350**	**3,500**	**3,850**

FSCJ-TMW-11S			
DATE	PFOA	PFOS	PFOA + PFOS
4/8/22	**1,100**	**12,000**	**13,100**

FSCJ-TMW-2SR			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	**2,200**	**24,000**	**26,200**

FSCJ-TMW-1S			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	**1,400**	**5,900**	**7,300**

FSCJ-TMW-7SR			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**140**	**1,300**	**1,440**

FSCJ-TMW-8S			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**490**	**1,400**	**1,890**

FSCJ-TMW-10S			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**90**	**82**	**172**

FSCJ-TMW-20S			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**25**	**110**	**135**

FSCJ-TMW-4SR			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	**300**	**1,600**	**1,900**

DEPMW-3S			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	**82**	**60**	**142**

DEPMW-7S			
DATE	PFOA	PFOS	PFOA + PFOS
4/4/22	**220**	**420**	**640**

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- SHALLOW MONITORING WELL LOCATION
- EXPLORATORY SOIL BORING

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
PGCTL	70	70	70

NOTE(S)

1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. ft bgs - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

0 80 160
SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

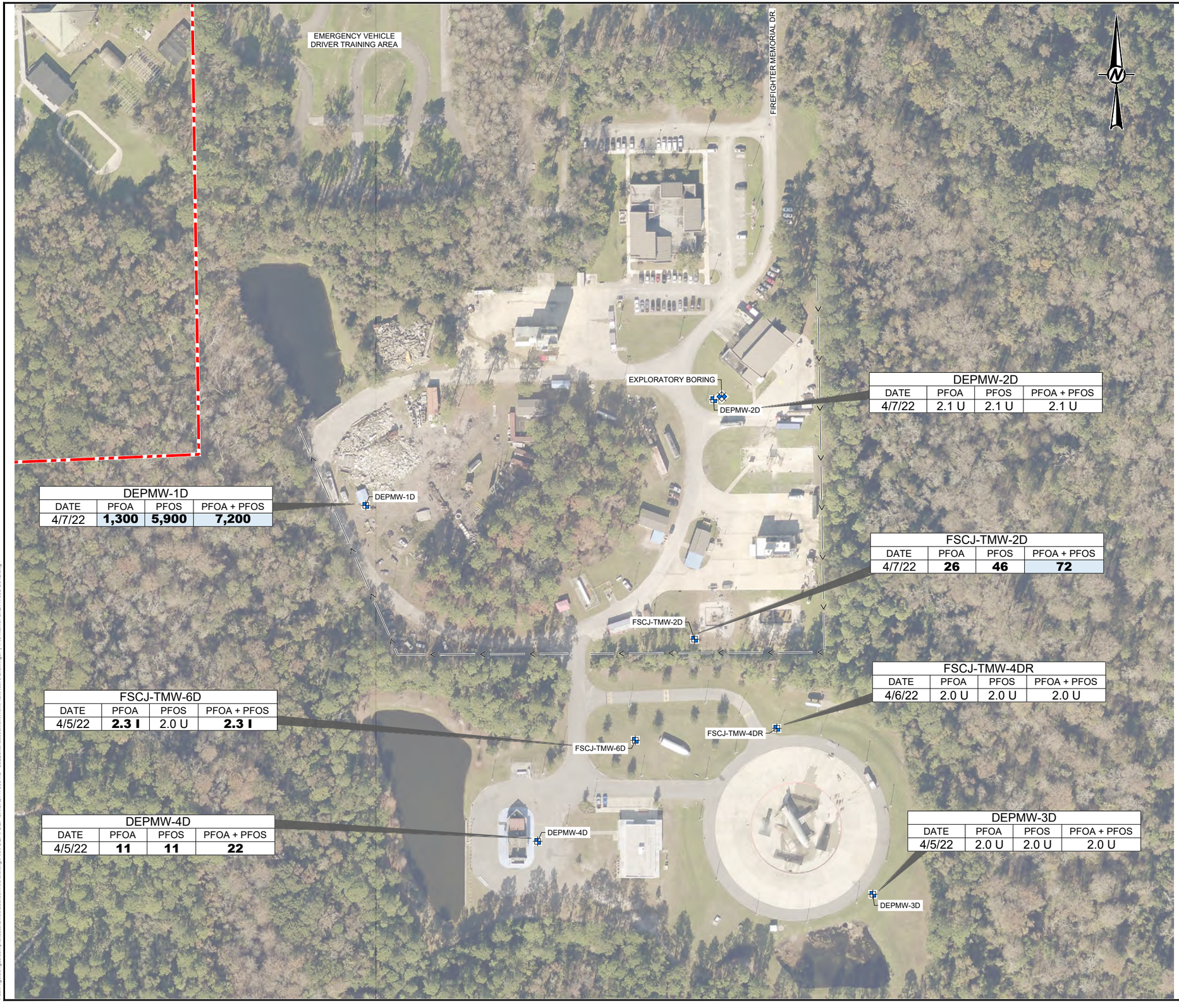
CONSULTANT
WSP GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
GROUNDWATER ANALYTICAL RESULTS FOR THE SHALLOW SURFICIAL AQUIFER

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C011		11



DEPMW-1D			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	**1,300**	**5,900**	**7,200**

DEPMW-2D			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	2.1 U	2.1 U	2.1 U

FSCJ-TMW-2D			
DATE	PFOA	PFOS	PFOA + PFOS
4/7/22	**26**	**46**	**72**

FSCJ-TMW-4DR			
DATE	PFOA	PFOS	PFOA + PFOS
4/6/22	2.0 U	2.0 U	2.0 U

FSCJ-TMW-6D			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	**2.3 I**	2.0 U	**2.3 I**

DEPMW-4D			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	**11**	**11**	**22**

DEPMW-3D			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	2.0 U	2.0 U	2.0 U

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- DEEP MONITORING WELL LOCATION
- EXPLORATORY SOIL BORING

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
PGCTL	70	70	70

NOTE(S)

1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. ft bgs - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

0 80 160
SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
wsp GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
GROUNDWATER ANALYTICAL RESULTS FOR THE DEEP SURFICIAL AQUIFER

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C012		12

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1 in

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Well 1			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	2.0 U	2.0 U	2.0 U

Well 5			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	2.0 U	2.0 U	2.0 U

Well 7			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	2.0 U	2.0 U	2.0 U

Well 6			
DATE	PFOA	PFOS	PFOA + PFOS
4/5/22	2.0 U	2.0 U	2.0 U

LEGEND

- APPROXIMATE SUBJECT PROPERTY
- APPROXIMATE DITCH LAYOUT
- MUNICIPAL SUPPLY WELL LOCATION

PROVISIONAL GROUND WATER CLEANUP TARGET LEVEL (GCTL)	PFOA IN ng/L	PFOS IN ng/L	SUM OF PFOA + PFOS IN ng/L
PGCTL	70	70	70

NOTE(S)

1. PROVISIONAL GCTL - FDEP PROVISIONAL GROUNDWATER CLEANUP TARGET LEVEL.
2. ALL RESULTS ARE REPORTED IN NANOGRAMS PER LITER (ng/L).
3. BOLD FONTS INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE LABORATORY METHOD DETECTION LIMIT.
4. HIGHLIGHTED FONT INDICATES CONSTITUENT CONCENTRATION WAS REPORTED ABOVE THE PROVISIONAL GROUNDWATER CLEANUP LEVEL.
5. I- REPORTED VALUE IS BETWEEN THE LABORATORY METHOD DETECTION LIMIT AND LABORATORY PRACTICAL QUANTITATION LIMIT.
6. U - THE COMPOUND WAS ANALYZED FOR, BUT NOT DETECTED. THE REPORTED VALUE IS THE METHOD DETECTION LIMIT FOR THE SAMPLE ANALYZED.
7. ft bgs - FEET BELOW GROUND SURFACE.
8. PFOA - PERFLUORO-N-OCTANOIC ACID.
9. PFOS - PERFLUOROOCTANESULFONIC ACID.

REFERENCE(S)

1. AERIAL IMAGE TAKEN FROM FDEP BUREAU OF SURVEY AND MAPPING (LAND BOUNDARY INFORMATION SYSTEM), DATED FEBRUARY 2020.
2. PROPERTY BOUNDARY TAKEN FROM FLORIDA DEPARTMENT OF REVENUE.

0 200 400
SCALE FEET

CLIENT
FL. DEPT. OF ENVIRONMENTAL PROTECTION

CONSULTANT
wsp GOLDER

YYYY-MM-DD	2022-02-10
DESIGNED	SCN
PREPARED	BCL
REVIEWED	SCN
APPROVED	MCC

PROJECT
FIRE ACADEMY OF THE SOUTH
JACKSONVILLE, DUVAL COUNTY, FLORIDA

TITLE
GROUNDWATER ANALYTICAL RESULTS FOR JEA MUNICIPAL SUPPLY WELLS

PROJECT NO.	Control No.	REV.	FIGURE
CX21470834A	CX2147083-C013		13

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

1 in 0

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APPENDIX A

Field Documentation

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal + Kirk Fraley
Sampling Location: AOC-1

Sample ID: DEPSB-1 → DEPSB-10
Date: 11 / 15 / 2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

AOC-1 (DEPSB-1 through DEPSB-10)

All samples analyzed for PFAS

Depth to Groundwater: ≤2' bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-1-0.5	0940	0' - 0.5'	Dark Brn FS, M, No Odor
DEPSB-1-2.0	0945	0.5' - 2.0'	" " " "
~~DEPSB-1-2.5~~	~~0950~~	~~2.0'-4.0'~~	~~Dark gray FS, M, N.O~~
DEPSB-2-0.5	0940	0' - 0.5'	Dark Brn FS w/ debris, M, N.O
DEPSB-2-2.0	0945	0.5' - 2.0'	Dark Brn FS w/organics, M, N.O
DEPSB-2-4.0 (FW)	~~0950~~	2.0'-4.0'	~~wet~~ wet at ~2.5", no sample
DEPSB-3-0.5	1005	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-3-2.0	1010	0.5' - 2.0'	Dark Brn FS, M, N.O.
~~DEPSB-3~~ (FW)	None	2.0'-4.0'	wet at 2.0 ft bgs
DEPSB-4-0.5	1035	0' - 0.5'	Dark Brn FS, M, N.O
(FW) DEPSB-4-1.5	1040	0.5' - ~~2.0~~ 1.5'	Brn + gray FS, M, N.O.
(FW)		2.0'-4.0'	Wet at 1.5' bgs
DEPSB-5-0.5	1045	0' - 0.5'	Dark Brn FS, M, N.O.
(FW) DEPSB-5-1.0	1050	0.5' - ~~2.0~~ 1.0	Gray FS, M, N.O
(FW)		2.0'-4.0'	Wet at 1.0' bgs
DEPSB-6-0.5	1100	0' - 0.5'	Dark Brn FS, M, N.O
DEPSB-6-1.0	1105	0.5' - ~~2.0~~ 1.0	Gray FS, M, N.O.
		2.0'-4.0'	water @ bgs
DEPSB-7-0.5	1110	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-7-1.0	1115	0.5' - ~~2.0~~ 1.0	Gray FS, M, N.O
		2.0'-4.0'	Water @ 1.0' bgs
DEPSB-8-0.5	1145	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-8-1.0	1150	0.5' - 2.0'	" " " ", organic odor
		2.0'-4.0'	water @ 1.0' bgs
DEPSB-9-0.5	1155	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-9-1.0	1200	0.5' - 2.0'	DK Brn + gray FS, M, N.O.
		2.0'-4.0'	Water (FW) 1.0' bgs
DEPSB-10-0.5	1210	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-10-1.0	1215	0.5' - 2.0'	Brown + gray FS, M, organic odor
		2.0'-4.0'	water at 1.0' bgs

(FW) Water at 2.0'

Pg 1/1 for AOC-1

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal & Kirk Fraley
Sampling Location: AOC-4

Sample ID: DEPSB-11 → DEPSB-19
Date: 11/15/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

* All soil with slight organics

All to be sampled for lab analysis of PFAS

Depth to Groundwater: 0.5'-2.0'

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-11-0.5	1345	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-11-1.0	1350	0.5' - ~~2.0'~~ 1.0'	" " " "
—	—	2.0'-4.0'	water @ 1.0' bgs
DEPSB-12-0.5	1355	0' - 0.5'	Dark Brown FS, M, N.O.
DEPSB-12-1.0	1400	0.5' - 2.0'	" " " "
—	—	2.0'-4.0'	Water at ~1.0' bgs
DEPSB-13-0.5	1410	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-13-1.25	1415	0.5' - ~~2.0'~~ 1.25'	" " " "
—	—	2.0'-4.0'	water at ~15" bgs
DEPSB-14-0.5	1420	0' - 0.5'	Dark Brown FS, M, N.O.
DEPSB-14-2.0	1425	0.5' - 2.0'	" " " "
—	—	2.0'-4.0'	water at ~24" bgs
DEPSB-15-0.5	1445	0' - 0.5'	Dark Brown FS, M, N.O.
DEPSB-15-2.0	1450	0.5' - 2.0'	" " " "
—	—	2.0'-4.0'	Water at ~2' bgs
DEPSB-16-0.5	1455	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-16-1.0	1500	0.5' - ~~2.0'~~ 1.0'	" " " "
—	—	2.0'-4.0'	Water at ~1.0' bgs
DEPSB-17-0.5	1510	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-17-2.0	1515	0.5' - 2.0'	DK Brn & gray FS, M, organic odor
—	—	2.0'-4.0'	Water @ ~2.0'
~~DEPSB-18~~ DEPSB-18-0.5	1520	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-18-2.0	1525	0.5' - 2.0'	Dark Brn & gray FS, M, organic odor
—	—	2.0'-4.0'	Water @ ~2'0" bgs
DEPSB-19-0.5	1545	0' - 0.5'	Dark Brn FS, Moist → wet, organic odor
—	—	0.5' - 2.0'	wet @ ~6" bgs
—	—	2.0'-4.0'	—
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal & Kirk Fraley
Sampling Location: AOC-3

Sample ID: DEPSB-20 → DEPSB-29
Date: 11/16/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

All soils have slight organic component

All samples collected for Analysis of PFAS

Depth to Groundwater: ≤ 2' bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-20-0.5	0920	0' - 0.5'	Dark Brown Fine Sand, M, No Odor
DEPSB-20-1.5	0925	0.5' ~~-2.0~~ 1.5	Dark Brown & Gray FS, M, No odor
—	—	2.0'-4.0'	Water at 1.5" bgs
DEPSB-21-0.5	0930	0' - 0.5'	Dark Brn FS, M, No odor
DEPSB-21-2.0	0935	0.5' - 2.0'	Dark Brown & Gray FS, M, No Odor
—	—	2.0'-4.0'	water at ~26" bgs
DEPSB-22-0.5	0955	0' - 0.5'	Brown & gray FS, M, N.O.
DEPSB-22-2.0	1000	0.5' - 2.0'	DK Brn & gray FS, M, N.O.
—	—	2.0'-4.0'	water @ ~28"
DEPSB-23-0.5	1005	0' - 0.5'	Brown & Gray FS, M, N.O.
DEPSB-23-2.0	1010	0.5' - 2.0'	" " " "
—	—	2.0'-4.0'	water @ ~24"
DEPSB-24-0.5	1025	0' - 0.5'	gray & Brn FS, M, N.O
DEPSB-24-2.0	1030	0.5' - 2.0'	Gray FS, M, No odor
—	—	2.0'-4.0'	Wet at ~27"
DEPSB-25-0.5	1035	0' - 0.5'	Gray & Brn FS, M, No odor
DEPSB-25-1.5	1040	0.5' ~~-2.0~~ 1.5	Gray FS, M, N.odor
—	—	2.0'-4.0'	wet @ ~17"
DEPSB-26-0.5	1055	0' - 0.5'	gray & Brn FS, M, N.O
DEPSB-26-1.5	1100	0.5' - ~~2.0~~ 1.5	" " " " "
—	—	2.0'-4.0'	wet at 2.0' bgs
DEPSB-27-0.5	1105	0' - 0.5'	Gray FS, M, N.O
DEPSB-27-1.5	1110	0.5' - ~~2.0~~ 1.5	Gray & light gray FS, M, N.O
—	—	2.0'-4.0'	Wet at 2.0' bgs
DEPSB-28-0.5	1140	0' - 0.5'	Brown & Dark gray FS, M, N.O.
DEPSB-28-2.0	1145	0.5' - 2.0'	" " " " " "
—	—	2.0'-4.0'	wet @ ~23" bgs
DEPSB-29-0.5	1150	0' - 0.5'	Dark Gray & Brn FS, M, N.O.
DEPSB-29-2.0	1155	0.5' - 2.0'	Dark gray FS, M, N.O.
—	—	2.0'-4.0'	wet @ ~2' bgs

★ EQB-HA-1 collected at ~~0945~~ 0915 from hand Auger
EQB-HA-2 collected at 1045

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal + Kirk Fraley
Sampling Location:

Sample ID: DEPSB-30 + DEPSB-31
Date: 11 / 16 / 2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

All samples collected for Analysis of PFAS

Depth to Groundwater: ≥ 2' bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-30-0.5	1220	0' - 0.5'	Gray + Brn FS, M, N.O
DEPSB-30-1.0	1225	0.5' - 2.0'	" " " " "
—	~	2.0'-4.0'	wet @ ~12" bgs
DEPSB-31-0.5	1230	0' - 0.5'	Brown + Gray FS, M, N.O.
DEPSB-31-2.0	1235	0.5' - 2.0'	Gray + Brown FS, M, N.O
—	–	2.0'-4.0'	wet at ~2' bgs
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	

EQB-HA-3 collected at 1245

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Justin Spengler & Scott Neal
Sampling Location: AOC-2, Jacksonville, FL Fire Academy - FSCJ

Sample ID: DEPSB-32 → DEPSB-41
Date: 11/22/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

Northern Portion of AOC-2, See MAP & GPS

Depth to Groundwater: _____

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-32-0.5	1005	0' - 0.5'	Dark Brn, M, No odor
DEPSB-32-2.0	1010	0.5' - 2.0'	Dark Brn & Gray, M, N.O
~~DEPS~~ SW	—	2.0'-4.0'	Wet at 2.0' bgs
DEPSB-33-0.5	1015	0' - 0.5'	Dark Brown, M, N.O.
DEPSB-33-2.0	1020	0.5' - 2.0'	Dark Brn & Gray, M, N.O.
~~DEPSB-33~~ SW	—	2.0'-4.0'	Wet @ 2.0' bgs
DEPSB-34-0.5	1025	0' - 0.5'	Dark Brn, M, N.O.
DEPSB-34-2.0	1030	0.5' - 2.0'	Dark Brn & Gray, M, N.O.
—	—	2.0'-4.0'	wet @ 2.0' bgs
DEPSB-35-0.5	1035	0' - 0.5'	Dark Brown, Moist, No odor
DEPSB-35-2.0	1040	0.5' - 2.0'	Dark Brn & Gray, M, N.O.
—	—	2.0'-4.0'	wet @ 2.0' bgs
DEPSB-36-0.5	1050	0' - 0.5'	Gray FS, M, N.O
DEPSB-36-2.0	1055	0.5' - 2.0'	Light gray FS, M, N.O,
—	—	2.0'-4.0'	Wet at 2.0 ft bgs
DEPSB-37-0.5	1100	0' - 0.5'	Gray FS, M, N.O.
DEPSB-37-2.0	1105	0.5' - 2.0'	Light gray FS, M, N.O.
—	—	2.0'-4.0'	Wet at 2.0' bgs
DEPSB-38-0.5	1110	0' - 0.5'	Gray FS, M, No odor
DEPSB-38-2.0	1115	0.5' - 2.0'	Light gray FS, M, N.O.
—	—	2.0'-4.0'	Wet at 2.0' bgs
DEPSB-39-0.5	1120	0' - 0.5'	Dark Brn FS & gravel, M, N.O.
DEPSB-39-2.0	1125	0.5' - 2.0'	Brown & Gray FS, M, N.O.
—	—	2.0'-4.0'	Wet @ 2.0' bgs
DEPSB-40-0.5	1140	0' - 0.5'	Gray FS, M, N.O.
DEPSB-40-2.0	1145	0.5' - 2.0'	Light gray, FS, M, N.O.
—	—	2.0'-4.0'	Wet @ 2.0' bgs
DEPSB-41-0.5	1150	0' - 0.5'	Gray FS, M, N.O.
DEPSB-41-2.0	1155	0.5' - 2.0'	Light gray FS, M, N.O.
—	—	2.0'-4.0'	Wet @ 2.0' bgs

EQB-HA-4 collected at 1200

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal + Justin Spengler
Sampling Location: Fire Academy - FSCJ AOC-2, Jacksonville, FL

Sample ID: DEPSB-42 → DEPSB-51
Date: 11/22/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

Northern portion of AOC-2
See Map + GPS

Depth to Groundwater: ~2' bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-42-0.5	1325	0' - 0.5'	LS gravel + dark brown FS, M, N.O.
DEPSB-42-2.0	1330	0.5' - 2.0'	gray + light gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2.0' bgs
DEPSB-43-0.5	1335	0' - 0.5'	Dark Brown FS, Moist, N.O.
DEPSB-43-2.0	1340	0.5' - 2.0'	Dark Brown + gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2' bgs
DEPSB-44-0.5	1345	0' - 0.5'	dark Brown FS, M, N.O
DEPSB-44-2.0	1350	0.5' - 2.0'	Brown + gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2' bgs
DEPSB-45-0.5	1355	0' - 0.5'	Dark Brown FS, M, N.O.
DEPSB-45-2.0	~~1354~~ 1400	0.5' - 2.0'	Brown + gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2' bgs
DEPSB-46-0.5	1405	0' - 0.5'	Brown + dark Brown FS, M, N.O.
DEPSB-46-2.0	1410	0.5' - 2.0'	Brown + gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2.0' BGS
DEPSB-47-0.5	1415	0' - 0.5'	dark Brown FS, M, N.O.
DEPSB-47-2.0	1420	0.5' - 2.0'	Brown + gray FS, M, N.O
—	—	2.0'-4.0'	water @ 2.0' BGS
DEPSB-48-0.5	1425	0' - 0.5'	Dark Brown FS
DEPSB-48-2.0	1430	0.5' - 2.0'	dark Brn + gray FS, M, N.O.
—	—	2.0'-4.0'	Wet @ 2.0' bgs
DEPSB-49-0.5	1435	0' - 0.5'	dark brn FS, M, No odor
DEPSB-49-2.0	1440	0.5' - 2.0'	Brown + gray FS, M, N.O.
—	—	2.0'-4.0'	wet @ ~2.0' bgs
DEPSB-50-0.5	1445	0' - 0.5'	Dark Brn FS, M, N.O
★ DEPSB-50-2.0	1450	0.5' - 2.0'	Brown + gray FS, M, N.O
—		2.0'-4.0'	— wet @ 2' bgs
DEPSB-51-0.5	1500	0' - 0.5'	Dark Brown FS, M, N.O.
DEPSB-51-2.0	1505	0.5' - 2.0'	Dark Brown + gray FS, M, N.O.
—		2.0'-4.0'	— wet @ 2' bgs

★ EQBHA-5 collected at 1455

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal & Justin Spengler
Sampling Location: Fire Academy of the South - FSCJ

Sample ID: DEPSB-52 → DEPSB-54
Date: 11 / 22 / 2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

Northern Portion of AOC-2. See Map & GPS

Depth to Groundwater: ~2.0'

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-52-0.5	1515	0' - 0.5'	~~DEPSB-52~~ Dark Gray FS, M, N.O.
DEPSB-52-2.0	1520	0.5' - 2.0'	gray FS, M, N.O.
No sample	—	2.0'-4.0'	wet at 2.0' bgs
DEPSB-53-0.5	1530	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-53-2.0	1540	0.5' - 2.0'	Brown & gray FS, M, N.O.
—	—	2.0'-4.0'	wet at 2.0' bgs
DEPSB-54-0.5	1545	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-54-2.0	1550	0.5' - 2.0'	Brown & gray FS, M, No odor
—	—	2.0'-4.0'	wet at 2.0' bgs
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
EOM		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
11/22		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal + Justin Spengler
Sampling Location:

Sample ID: DEPSB-55 → DEPSB-64
Date: 11/23/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

AOC-1, See Maps

Sunny, 50°

Depth to Groundwater: ~2.0' bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-55-0.5	0840	0' - 0.5'	Dark Brown Fine Sand, M, N. odor
DEPSB-55-2.0	0845	0.5' - 2.0'	Dark Brown + gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2.0' bgs
DEPSB-56-0.5	0850	0' - 0.5'	Dark Brn FS, M, N.O.
DEPSB-56-2.0	0855	0.5' - 2.0'	Brown + gray FS, M, N.O.
—	—	2.0'-4.0'	Water @ 2.0' bgs
DEPSB-57-0.5	0900	0' - 0.5'	Dark Brown FS, M, N.O.
DEPSB-57-2.0	0905	0.5' - 2.0'	gray FS, M, N.O.
—	—	2.0'-4.0'	Water @ 2.0' bgs
DEPSB-58-0.5	0910	0' - 0.5'	Dark Brown FS,
DEPSB-58-2.0	0915	0.5' - 2.0'	gray FS, M, N.O.
—	—	2.0'-4.0'	Water @ 2.0' bgs
DEPSB-59-0.5	0920	0' - 0.5'	Brown FS, M, N.O.
DEPSB-59-2.0	0925	0.5' - 2.0'	gray FS, M, N.O
—	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-60-0.5	0930	0' - 0.5'	gray FS, M, No odor
★ DEPSB-60-2.0	0935	0.5' - 2.0'	gray FS, M, N.O.
—	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-61-0.5	0950	0' - 0.5'	gray FS, M, N.O.
DEPSB-61-2.0	0955	0.5' - 2.0'	" " " "
—	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-62-0.5	1000	0' - 0.5'	gray FS, M, N.O.
DEPSB-62-2.0	1005	0.5' - 2.0'	" " " "
No Sample	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-63-0.5	1010	0' - 0.5'	Brown Fine Sand, Moist, No odor
DEPSB-63-2.0	1015	0.5' - 2.0'	gray FS, " "
—		2.0'-4.0'	wet @ 2.0' bgs
DEPSB-64-0.5	1020	0' - 0.5'	Brown FS, M, No odor
DEPSB-64-2.0	1025	0.5' - 2.0'	gray FS, M, No odor
—		2.0'-4.0'	wet at 2.0' bgs

★ EQB-HA-6 collected at 0940

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal & Justin Spengler
Sampling Location: AOC-2, Fire Academy of the South, Jacksonville, FL

Sample ID: DEPSB-65 → DEPSB-74
Date: 11/23/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

AOC-2, See Map
Southern Portion

52°, sunny

Depth to Groundwater: ~2.0' bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-65-0.5	1035	0' - 0.5'	Dark gray FS, M, No odor
DEPSB-65-2.0	1040	0.5' - 2.0'	Gray FS, M, N.O.
—	—	2.0'-4.0'	wet at 2' bgs
DEPSB-66-0.5	1210	0' - 0.5'	Dark Brown FS, M, No odor
DEPSB-66-2.0	1215	0.5' - 2.0'	Brown & gray FS, M, N.O.
—	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-67-0.5	1220	0' - 0.5'	Dark Brn FS, M, N.odor
DEPSB-67-2.0	1225	0.5' - 2.0'	Brown & gray FS, M, No odor
—	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-68-0.5	1235	0' - 0.5'	Dark Gray FS, M, N.O.
DEPSB-68-2.0	1240	0.5' - 2.0'	Gray FS, M, No odor
~~DEPSB-69~~ —	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-69-0.5	1245	0' - 0.5'	Dark Gray FS, M, N.O.
DEPSB-69-2.0	1250	0.5' - 2.0'	Gray FS, M, N.O.
—	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-70-0.5	1305	0' - 0.5'	Gray FS & some gravel, M, No odor
DEPSB-70-2.0	1310	0.5' - 2.0'	Light gray FS, M, No odor
—	—	2.0'-4.0'	water @ 2' bgs
DEPSB-71-0.5	1315	0' - 0.5'	Gray FS, M, N.odor
DEPSB-71-2.0	1320	0.5' - 2.0'	Light gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2' bgs
DEPSB-72-0.5	1325	0' - 0.5'	Gray FS, M, N.O.
DEPSB-72-2.0	1330	0.5' - 2.0'	Light gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2' bgs
DEPSB-73-0.5	1345	0' - 0.5'	Gray FS, M, N.O.
DEPSB-73-2.0	1350	0.5' - 2.0'	Light gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2' bgs
DEPSB-74-0.5	1355	0' - 0.5'	Gray & Brn FS, M, N.O.
DEPSB-74-2.0	1400	0.5' - 2.0'	Light gray FS, M, N.O.
—	—	2.0'-4.0'	water @ 2' bgs

* 1335 - Collect EQB-HA-7 for PFAS

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Seth Neal + Justin Spengler
Sampling Location: Fire Academy - FSCJ, Jacksonville, FL AOC-2
Sample ID: DEPSB-75 → DEPSB-81
Date: 11/23/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

AOC-2, Southern Portion
See GPS + Map

56°, Sunny

Depth to Groundwater: ~2.0' ~~BGS~~ to ~2.5' bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-75-0.5	1410	0' - 0.5'	gray FS, M, N.O.
DEPSB-75-2.0	1415	0.5' - 2.0'	" " "
—		2.0'-4.0'	wet @ 2' bgs
DEPSB-76-0.5	1420	0' - 0.5'	Light gray FS, M, N.O.
DEPSB-76-2.0	1425	0.5' - 2.0'	gray + dark gray FS, M, N.O.
—	—	2.0'-4.0'	wet @ 2' bgs
DEPSB-77-0.5	1430	0' - 0.5'	gray FS + gravel, M, No odor
DEPSB-77-2.0	1435	0.5' - 2.0'	dark gray FS, M, N.O.
DEPSB-77-2.5	1440	2.0'-~~4.0~~2.5'	" " " " " , wet @ 2.5' bgs
DEPSB-78-0.5	1445	0' - 0.5'	gravel w/ some gray fine sand, M, N.O.
DEPSB-78-2.0	1450	0.5' - 2.0'	gray FS + light brn FS, M, N.O.
DEPSB-78-2.5	1455	2.0'-~~4.0~~2.5'	Light brn. fine to coarse Sand, M, N.O. wet @ 2.5'
DEPSB-79-0.5	1500	0' - 0.5'	gray fine Sand, M, N.O.
DEPSB-79-2.0	1505	0.5' - 2.0'	Brown + gray FS, M, N.O.
★ DEPSB-79-2.5	1510	2.0'-~~4.0~~2.5'	" " " " wet @ 2.5'
DEPSB-80-0.5	1525	0' - 0.5'	gravel w/ some brown FS, M, chem odor, salts on surface ★★
DEPSB-80-2.0	1530	0.5' - 2.0'	gray + brn FS, M, slight chem. odor
DEPSB-80-2.5	1535	2.0'-~~4.0~~2.5'	Light gray FS, M, slight chem odor wet @ 2.5'
DEPSB-81-0.5	1540	0' - 0.5'	gravel w/ some brown fine sand, M, N.O.
DEPSB-81-2.0	1545	0.5' - 2.0'	gray + Brown FS, M, No odor
DEPSB-81-2.5	1550	2.0'-~~4.0~~2.5'	gray FS, M, No odor. wet @ 2.5' bgs
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	

SV 11/23

1515 ★ EQB-HA-8 collected for PFAS

★★ - White salts on surface possibly from fire extinguisher powder/residue. Chemical odor in soil + in area

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal & Justin Spengler
Sampling Location: Southern Portion of AOC-2
Sample ID: DEPSB-82 → DEPSB-91
Date: 11/29/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

Southern Portion of AOC-2

See Map

Depth to Groundwater: ~2.5 (2 - 2.75' bgs)

Sample ID	Time Collected	Depth Interval	Soil Description
(N) ~~SB~~ DEPSB-82-0.5	1055	0' - 0.5'	light gray FS, Dry, No odor
DEPSB-82-2.0	1100	0.5' - 2.0'	gray + dark Brn FS, Moist, N.O.
DEPSB-82-2.5	1105	2.0'-~~4.0~~'2.5	Brown FS, M, N.O., wet @ 2.5' bgs
DEPSB-83-0.5	1110	0' - 0.5'	Light Brn FS, M, N.O.
DEPSB-83-2.0	1115	0.5' - 2.0'	Light Brn + gray FS, M, N.O.
—	—	2.0'-4.0'	water @ ~2' bgs
DEPSB-84-0.5	1130	0' - 0.5'	light gray FS, M, N.O.
DEPSB-84-2.0	1135	0.5' - 2.0'	gray FS, M, N.O.
★ DEPSB-84-2.5	1140	2.0'-~~4.0~~'2.5	" " " " water @ ~2.5'
DEPSB-85-0.5	1150	0' - 0.5'	light gray FS, M, No odor
DEPSB-85-2.0	1155	0.5' - 2.0'	gray FS, M, N.O.
DEPSB-85-2.5	1200	2.0'-~~4.0~~'2.5	" " " " water @ ~2.5'
DEPSB-86-0.5	1205	0' - 0.5'	Dark gray FS, M, No odor
DEPSB-86-2.0	1210	0.5' - 2.0'	gray, FS, M, N.O.
★★ DEPSB-86-2.5	1215	2.0'-~~4.0~~'2.5	" " " " water @ ~2.5'
DEPSB-87-0.5	1225	0' - 0.5'	Dark gray FS, M, No odor
DEPSB-87-2.0	1230	0.5' - 2.0'	gray FS, M, N.O.
DEPSB-87-2.5	1235	2.0'-~~4.0~~'2.5	gray FS, M, N.O. water @ ~2.5'
DEPSB-88-0.5	1240	0' - 0.5'	White + gray FS, M, No odor
DEPSB-88-2.0	1245	0.5' - 2.0'	gray FS, M, N.O.
DEPSB-88-2.5	1250	2.0'-4.0'	Brown + gray FS, M, N.O. water @ ~2.5'
DEPSB-89-0.5	1350	0' - 0.5'	Dark gray FS, Moist, No odor
DEPSB-89-2.0	1355	0.5' - 2.0'	gray FS, M, N.O.
DEPSB-89-2.5	1400	2.0'-~~4.0~~'2.5	" " " " water @ ~2.5'
DEPSB-90-0.5	1405	0' - 0.5'	Gray Fine Sand, Moist, No odor
DEPSB-90-2.0	1410	0.5' - 2.0'	" " " " "
DEPSB-90-2.5	1415	2.0'-~~4.0~~'2.5	" " " " water @ ~2.5'
DEPSB-91-0.5	1420	0' - 0.5'	Light gray FS, M, N.O.
DEPSB-91-2.0	1425	0.5' - 2.0'	" " " "
DEPSB-91-2.5	1430	2.0'-~~4.0~~'2.5	Dark Brown organic silty Sand, M, N.O.

★ 1145 - Collect Field Reagent blank FRB-SB-85

★★ EQB-HA-9 equip blank sampled off hand auger - 1220

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by:
Sampling Location: Southern Portion of AOC-2

Sample ID: DEPSB-92 → DEPSB-96
Date: 11/29/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

AOC-2, Southern Portion.
See Map

Depth to Groundwater: ~2.5'

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-92-0.5	1435	0' - 0.5'	Gray FS, M, No odor
DEPSB-92-2.0	1440	0.5' - 2.0'	" " " "
~~DEPSB-92-2.5~~ No sample	~~1445~~ SW	~~2.0'-4.0'~~	Wet @ ~2.0' bgs
DEPSB-93-0.5	1445	0' - 0.5'	Gray FS, Moist, No odor
DEPSB-93-2.0	1450	0.5' - 2.0'	" " "
DEPSB-93-2.5	1455	2.0'-~~4.0'~~ 2.5	" " " wet@~2.5'
DEPSB-94-0.5	1510	0' - 0.5'	Gray FS, M, No odor
DEPSB-94-1.0	1515	0.5' - ~~2.0'~~ 1.0	Brown FS, M, No odor
No Sample	—	~~2.0'-4.0'~~	No sample. Wet @ ~1.0' bgs
DEPSB-95-0.5	1520	0' - 0.5'	Gray FS, Moist, N.O.
DEPSB-95-2.0	1525	0.5' - 2.0'	Gray & dark gray FS, M, N.O.
—	—	2.0'-4.0'	Wet @ 2.0' bgs
DEPSB-96-0.5	1530	0' - 0.5'	Gray FS w/ limestone gravel, M, N.O.
DEPSB-96-2.0	1535	0.5' - 2.0'	Gray & dark gray FS, M, N.O.
		2.0'-4.0'	Wet @ ~2.0' bgs
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	

SW 11/29

1500 - EQB-HA-10 collected off Hand Auger. Equip Blank

1545 - USH

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal & Justin Spengler
Sampling Location: Southern portion of AOC-2

Sample ID: DEPSB-97 → DEPSB-106
Date: 12 / 1 / 2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

Southern Portion of AOC-2. See Map.

Depth to Groundwater: 1.0 - 2.0 ft bgs

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-97-0.5	0920	0' - 0.5'	Light gray Fine Sand, M, No odor
DEPSB-97-2.0	0925	0.5' - 2.0'	" " " "
—	—	2.0'-4.0'	— water @ ~2' bgs
DEPSB-98-0.5	0930	0' - 0.5'	light gray Fine Sand, M, No odor
DEPSB-98-2.0	0935	0.5' - 2.0'	light gray & dark brown FS, M, N.O.
—	—	2.0'-4.0'	water @ ~2' bgs
DEPSB-99-0.5	0940	0' - 0.5'	Light gray fine Sand, M, No odor
DEPSB-99-2.0	0945	0.5' - 2.0'	gray & dark gray fs w/organics, M, N.O.
—	—	2.0'-4.0'	water @ ~2.0' bgs
DEPSB-100-0.5	0950	0' - 0.5'	Light gray FS, M, No odor
DEPSB-100-2.0	0955	0.5' - 2.0'	gray & dark brown FS w/ organics, M, N.O.
—	—	2.0'-4.0'	water @ ~2' bgs
DEPSB-101-0.5	1000	0' - 0.5'	gray FS, M, No odor
DEPSB-101-2.0	1005	0.5' - 2.0'	Dark gray & Brn FS, M, N.O.
—	—	2.0'-4.0'	water at ~2' bgs
DEPSB-102-0.5	1010	0' - 0.5'	gray FS, M, organic
DEPSB-102 ~~2.0~~ 1.0 (SM)	1015	0.5' ~~2.0~~ 1.0'	grdy & Brown FS, M, organic
—	—	2.0'-4.0'	water @ ~1.0' bgs
DEPSB-103-0.5	1020	0' - 0.5'	gray FS, M, No odor
DEPSB-103-1.0	1025	0.5' ~~2.0~~ 1.0'	Brown Sandy Silt, M, no odor
—	—	2.0'-4.0'	water @ 1.0' bgs
DEPSB-104-0.5	1030	0' - 0.5'	gray Fine Sand, M, No odor
DEPSB-104-1.5	1035	0.5' ~~2.0~~ 1.5'	(M) ~~wet~~ Dark gray FS, M, No odor
—	—	2.0'-4.0'	water @ 1.5' bgs
DEPSB-105-0.5	1040	0' - 0.5'	Light gray FS, M, No odor
DEPSB-105-2.0	1045	0.5' - 2.0'	Dark gray & gray FS, M, No odor
—	—	2.0'-4.0'	water at 2.0' bgs
DEPSB-106-0.5	1050	0' - 0.5'	Light gray FS, M, N.O.
DEP-SB-106-1.5	1055	0.5' - 2.0'	Dark gray silty Sand, M, No odor
—	—	2.0'-4.0'	— water @ ~1.5' bgs

0905 - Collect Equipment blank EQB-HA-11 off hand auger for PFAS
1110 - Collect Equipment blank EQB-HA-12 off hand Auger " "

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: Scott Neal + Justin Spangler
Sampling Location: AOC-2

Sample ID: DEPSB-107 → DEPSB-110
Date: 12/1 /2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

Southern Portion of AOC-2 near oil-water separator

All samples also sampled for hydrocarbons (FL-Pro/TrPH, PAHs, BTEX/MTBE) + PFAS

Depth to Groundwater: _____

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-107-0.5	1250	0' - 0.5'	Brown & dark gray fine Sand, M, No odor
DEPSB-107-2.0	1300	0.5' - 2.0'	Gray fine Sand, M, No odor
DEPSB-107-2.5	1310	2.0'-~~4.0'~~ 2.5	Gray & Brown FineSand, M, No odor
DEPSB-108-0.5	1325	0' - 0.5'	Gray & Brn FS, M, No odor
DEPSB-108-2.0	1335	0.5' - ~~2.0'~~ 2.0	light gray FS, M, No odor
DEPSB-108-2.5	(FD) ~~1335~~ 1345	2.0'-~~4.0'~~ 2.5	" " " " " , wet @ ~2.5' bgs
DEPSB-109-0.5	1355	0' - 0.5'	Brown & gray FS, M, No odor
DEPSB-109-2.0	1405	0.5' - 2.0'	Dark Brown & gray FS, M, No odor
~~DEPSB-109-2.5~~ (SW)	—	2.0'-~~4.0'~~ 2.5	wet at ~2' bgs
DEPSB-110-0.5	1415	0' - 0.5'	
DEPSB-110-2.0	1430	0.5' - 2.0'	
~~DEPSB-110-2.5~~ (SW)	—	2.0'-~~4.0'~~ 2.5	wet/water @ ~2' bgs
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	

1500 - Collect EQB-HA-13 for PFAS, TRPH, PAHs, & VOCs

SOIL SAMPLE COLLECTION FORM

Project Name: Fire Academy of the South - FSCJ
Project Number: 214570834
Sampled by: DEPSB-111 to DEPSB-113
Sampling Location: AOC-4, AOC-2

Sample ID: DEPSB-111 to DEPSB-113
Date: 12/15/2021
Type of Sampling Equipment: Hand Auger
Sampling Method: Grab

SAMPLE COLLECTION LOCATION SKETCH:

See maps and GPS data

Depth to Groundwater: 2' - 3.5'

Sample ID	Time Collected	Depth Interval	Soil Description
DEPSB-111-0.5	0950	0' - 0.5'	Dark Brown FS, M, No odor
DEPSB-111-2.0	0955	0.5' - 2.0'	" " " , slight sulfur odor
DEPSB-111-3.5	1000	2.0'~~-4.0'~~ 3.5	Brown + Tan FS, M→W, ~~No~~ slight sulfur. wet @ ~3.5'
		~~0' - 0.5'~~	
SED-B	1020	~~0.5' - 2.0'~~	Brown + Tan silty sand (sediment sample)
		~~2.0'-4.0'~~	
DEPSB-112-0.5	1055	0' - 0.5'	gray FS, M, No odor
DEPSB-112-2.0	1100	0.5' - 2.0'	gray FS, M→W, No odor
	~~1105~~	2.0'-4.0'	Water @ 2.0' bgs
DEPSB-113-0.5	1110	0' - 0.5'	gray FS, M, N.O.
DEPSB-113-2.0	1115	0.5' - 2.0'	gray FS, M, N.O. wet @ 2.0'
		2.0'-4.0'	water @ 2.0' bgs
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	
		0' - 0.5'	
		0.5' - 2.0'	
		2.0'-4.0'	

"Ansulite 3x3" product sampled @ 1300
EQB-HA-14 @ 1315

0.2 1.00 D

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID; ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
~~WELL NO:~~	SAMPLE ID: SW-3	DATE: 11/30/2021

PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= [0 gallons + (0.0014 gallons/foot X 20 feet) + 0 ~~0.07~~] 3 gallons = 0.1 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~6"	FINAL PUMP OR TUBING DEPTH IN WELL (feet): ~6"	PURGING INITIATED AT: 0931	PURGING ENDED AT: 0934	TOTAL VOLUME PURGED (gallons): 0.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0934	0.2	0.2	0.08	—	5.93	13.1	329	3.38 / 31.8	3.62	254	Brown tint / none
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: Scott Neal/Golder	SAMPLER(S) SIGNATURE(S): Scott Neal	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: 0936
PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
SW-3	2	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	APP	~300
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID; ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
~~WELL NO:~~	SAMPLE ID: SW-4	DATE: 11/30/2021

PURGING DATA

WELL DIAMETER (inches): N/A	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): —	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) ——— = (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = [0 gallons + (0.0014 gallons/foot X 20 feet) + 0.13 gallons = 0.1 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1001	PURGING ENDED AT: 1004	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1004	0.2	0.2	0.08	—	6.97	13.4	359	3.80/36.3	3.63	128	SI. Brn tint/none
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: Scott Neal	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT: 1006
PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: —— µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SW-4	2	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	APP	~300
DUP-SW-4.2		HDPE	125mL	ICE	NA	*	EPA 8321B PFAS	APP	~300
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
Duplicate Sample DUP-SW-4 collected for PFAS

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID: ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
WELL NO: —	SAMPLE ID: SW-5	DATE: 11/30/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: DIP
—	—		—	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
— = (feet – feet) X gallons/foot = gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
—	—	—	—	—

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1046	—	—	—	—	7.30	12.2	729	1.27 / 11.7	5.21	180	SL. Brown tint/
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT: 1041
Scott Neal	Scott Neal		

PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SW-5	2	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	DIP	—
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
Water ~ 4" deep. Dipped bottles in ditch then laid YSI meter in ditch. Suspended detritus

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID; ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
WELL NO: —	SAMPLE ID: SW-6	DATE: 11/30/2021

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: DIP
—	—		—	

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
— = (feet – feet) X gallons/foot = gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
—	—	—	—	—

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1204	—	—	—	—	7.69	16.2	372.7	3.18 / 32.2	8.03	152.9	SL. Brown tint
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Scott Neal	Scott Neal	1205	1206

PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SW-6	2	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	DIP	—
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
could not access with pump. Collected via dip in ~18" water.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID; ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
WELL NO: —	SAMPLE ID: SW-7	DATE: 11/30/21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= [0 gallons + (0.0014 gallons/foot X 20 feet) + 0]3 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1346	PURGING ENDED AT: 1349	TOTAL VOLUME PURGED (gallons): 0.25
—	—			

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1349	0.25	0.25	~0.08	—	7.74	16.9	313.9	4.30 / 44.1	4.57	146.3	clear/none
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1351
Scott Neal	Scott Neal		

PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SW-7	2	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	APP	~300
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
collected via Peristaltic pump in ~4' water

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID; ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
WELL NO: —	SAMPLE ID: SW-8	DATE: 11/30/21

PURGING DATA

WELL DIAMETER (inches): —	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): —	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)
= (feet – feet) X gallons/foot = gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
—	—	—	—	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1434	NA	NA	NA	NA	7.86	17.3	312	5.05 / 52	6.01	146	clear/none
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Scott Neal	Scott Neal	1435	1436

PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm

FIELD DECONTAMINATION: PUMP ~~Y~~ ~~N~~ TUBING ~~Y~~ ~~N~~ (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	2	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	DP	—
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab. Field Reagent Blank FRB-SW-8 collected prior collected ~6" below surface in ~2' of water.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID; ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
WELL NO: —	SAMPLE ID: SW-9	DATE: 11/30/21

PURGING DATA

WELL DIAMETER (inches): —	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): —	PURGE PUMP TYPE OR BAILER: DIP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable) —
= (feet – feet) X gallons/foot = gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): —

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1503	NA	NA	NA	NA	7.53	14.7	551	2.87/28.3	10.3	164	SL. Brown
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: Scott Neal	SAMPLER(S) SIGNATURE(S): Scott Neal	SAMPLING INITIATED AT: 1500	SAMPLING ENDED AT: 1502
PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SW-9	24	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	DIP	—
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
collected by hand/dip in ≤6" water. YSI Reading taken after

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South – FSCJ; FacID; ERIC_7421	SITE LOCATION: Fire Fighter Memorial Drive, Jacksonville, FL	
WELL NO: —	SAMPLE ID: SW-10	DATE: 11/30/21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 0.25	WELL SCREEN INTERVAL DEPTH: — feet to — feet	STATIC DEPTH TO WATER (feet): —	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)
— = (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0 gallons + (0.0014 gallons/foot X 20 feet) + 0.3 gallons = 0.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1521	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
—	—			

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1524	0.25	0.25	0.08	—	7.37	14.1	799	0.16 / 1.6	5.44	145	slight brown/no odor
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1525	SAMPLING ENDED AT: 1529
Scott Neal			

PUMP OR TUBING DEPTH IN WELL (feet): NA – Surface Water	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: — µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SW-10	2	HDPE	125 mL	ICE	NA	*	EPA 8321B - PFAS	APP	~300
DUP-SW-10	2	HDPE	125mL	ICE	NA	*	EPA 8321B PFAS	APP	~300
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab. Dupliate Sample DUP-SW-10 collected
Collected ~ 2" below surface in ~6" water.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

Golder Associates

SUBJECT FIRE ACADEMY OF THE SOUTH-FSCJ; ~~ERIC-7421~~ (SN) ERIC-17235		
Job No. 21470834A Ref. ~~Jacksonville~~, FL	Made by Scott Neal-Golder Checked (SN) X 70°, clear Reviewed	Date 11/09/2021 Sheet 1 of 1

0755- Golder (Scott Neal) on site. Bud Connor (GeoTek) on site
0800- Meet with Jason Carpenter (Fire Academy). Discuss sow.
0815- Golder & GeoTek review HASP
0830- Mark soil/well locations using GPS.
0840- GeoTek begins scanning northern portion of AOC-2 (grid area) using EMI wand and GPR sled.
1000- Check historic pond location in far NW corner of site north of driving course. Area is holding water, but has filled with sediment & is heavily vegetated with pines, bay trees, palmettos.
1030- Photograph sample locations & utilities. Water, ~~P~~propane, & electric lines in northern portion of AOC-2
1130- Mark sample locations in southern portion of AOC-2 near burn pits.
1230-1310- lunch
1330- GeoTek begins utility location in southern portion of AOC-2. Propane, gasoline, electrical, in area. Mark locations in AOC-1
1430- Check access to sediment/surface water sampling locations. for access
1630- Pack equipment. off site
1700- Office. off job

(SN)

Golder Associates

Scott Neal, GeoTek

SUBJECT Fire Academy of the South; ERIC-17235		
Job No.	Made by Scott Neal	Date 11/10/2021
Ref: Jacksonville, FL	Checked 73°, clear	Sheet 1 of 1
	Reviewed	

0800 - Golder (Scott Neal) + GeoTek (Bud Connor) on site. Review HASP + SOW.
0820 - Bud Resumes scan of Burn Pit area of AOC-2. using EMI wand + GPR sled.
0825 - Speak with Fire Academy + FSCJ Personnel (Jason Carpenter + Charles Johnson) + get access to designs/as-builts of Maritime Training Area + Aircraft ~~training~~ training areas in the southern portion of the site (AOC-3 + AOC-4). Photo scan utility + drainage info. + make notes on site maps.
0900 - Bud moves to AOC-1 + begins utility scan. Photograph sample locations + utilities. Map any major underground utilities. No location moved more than ~3 feet.
1100 - Move to AOC-4 and scan proposed soil boring and well locations
1300-1400 - Lunch
1400 - Scan proposed location in AOC-3.
1415 - Mark moved locations on gps unit. Photograph locations in vicinity of marked buried utilities
1545 - Bud done scanning. Review locations
1630 - Pack vehicles
1645 - Off site
1720 - Office. off job

SW 11/10

Golder Associates

SUBJECT Fire Academy of the South - FSCJ; ERIC_17235		
Job No. 21470834A	Made by Scott Neal	Date 11/15/21
Ref. Jacksonville, FL	~~Checked~~ ~~Reviewed~~ 60°, clear	Sheet 1 of 1

Scott Neal, Kirk Fraley

0700 - Meet at office & pack truck with coolers & sampling equipment
0800 - Leave Golder office
0815 - Buy 55-gal drum at Atlantic Drilling Supply
0855 - On site. Check in with Jason Carpenter.
0905 - Review HASP, SOW, & PFAS SOPs
0920 - Set up sampling equipment and begin sampling in AOC-1. Hand Augers decontaminated between borings/samples per FDEP PFAS SOPs. See Soil Sample collection form for sample times & lithologies. + times
1230 - 1325 - lunch
1330 - Set up for soil sampling in AOC-4. Will wait to sample at Proposed well cluster/vertical profile location until drill rig is on site. See Soil Sample Collection Forms for sample times & lithologies. Samples SB-11 through SB-19 in AOC-4
1550 - End Sampling
1605 - Drum decon water. Stage equipment
1630 - off site
1700 - office. off job

Golder Associates

SUBJECT Fire Academy of the South; ERIC-17235		
Job No. 21457083A	Made by Scott Neal - Golder	Date 11/16/2021
~~Ref:~~ Jacksonville, FL	~~Checked~~ (SN) ~~Reviewed~~ 60°, clear	Sheet 1 of 1

Scott Neal, Kirk Fraley

0800 - Meet at Golder, Jacksonville office
0810 - MOB to site in Rental Truck
0840 - On site. Check in with Fire Academy
0850 - Review SOW, Safety, & PFAS SOPs
0900 - Set up Sampling equipment & decon Augers.
0920 - Begin soil sampling in AOC-3. See Soil Sample Collection Forms for sample times & lithologies. Samples collected off of disposable LDPE sheeting & Augers decontaminated according to FDEP PFAS SOPs.
(SN) ★ 0915 - Equip. Blank EQB-HA-1 collected at 0915 from hand Auger bucket
1045 - EQB-HA-2 collected for PFAS analysis from Hand Auger
1240 - End Soil sampling
1245 - EQB-HA-3 collected
1300 - drum decon water + pack truck
1320 - off site, lunch
~~1345 - Golder~~ (SN) 11/16
1440 - Golder office. Unpack. off job

☆ 11/17/21 - 2 coolers shipped to FDEP Tallahassee Lab via FedEx Express overnight
(SN) 11/17

(SN)

Golder Associates

SUBJECT Fire Academy of the South; ERIC-17235		
Job No. 21470834 A	Made by Scott Neal	Date 11/22/2021
~~Ref.~~ Jacksonville, FL	~~Checked~~ ~~Reviewed~~ 65°, cloudy	Sheet 1 of 1

Scott Neal, Justin Spengler

0745 - Meet at Golder, Jacksonville office. Pack vehicle.
0845 - Leave office
0915 - On site. Check in with site personnel.
0930 - Review HASP, SOW, + PFAS SOPs.
0945 - Decon + set up sampling equipment in the northern portion of AOC-2
1000 - Begin soil sampling for analysis of PFAS. Sampling to top of water table/ vadose zone. See Soil sample Collection forms for sample times and lithologies
1200 - Equipment Blank sample EQB-HA-4 collected at 1200 from hand auger bucket
1220 - 1310 - Lunch
1310 - Resume sampling
1455 - EQB-HA-5 collected
1600 - End Sampling. Drum decon water. Secure staging area.
1645 - Golder office, off job

SN 11/22

SUBJECT Fire Academy of the South; ERIC - 17235		
Job No. 21470434A ~~Ref:~~ 50°, clear 10-15 mph	Made by Scott Neal ~~Checked~~ ~~Reviewed~~ Jacksonville, FL	Date 11/23/21 Sheet 1 of 1

Golder Associates

Justin Spengler, Scott Neal

0730 - Meet at Golder Jacksonville office
0805 - On site. Check in with site personnel.
0815 - Review HASP, SOW, & PFAS SOPs
0825 - Setup / Decon. Move to AOC-2
0835 - Begin Soil Sampling vadose zone for analysis of PFAS. See Soil Sample Collection Forms for lithologies & sample times.
0940 - Collect Equipment Blank sample EQB-HA-6 from hand auger bucket
1050 - Complete sampling in northern portion & outside areas of AOC-2. Set up equipment near southern Burn Pit in AOC-2
1110 - 1200 - lunch
1200 - Continue soil sampling
1335 - Collect EQB-HA-7 from hand auger bucket for PFAS
1515 - EQB-HA-8 collected from hand auger bucket for PFAS
1600 - End Sampling. Drum decon water. Clean/secure staging area.
1645 - Golder office. off job

SR

SUBJECT Fire Academy of the South		
Job No. 21470834A	Made by Scott Neal	Date 11/29/2021
~~Ref.~~ Clear, 54°, 5-10mph	~~Checked~~ ~~Reviewed~~ Jacksonville, FL	Sheet 1 of 1

Golder Associates

Scott Neal, Justin Spengler

0800 - Meet at Golder office Pack truck
0825 - Leave office
0850 - Buy drum at Atlantic Drilling Supply
0910 - Ice
0935 - On site. Meet/check-in with ~~TA~~ (SN) site personnel. Check work area availability.
0950 - Review SOW, HASP, & PFAS SOPs
1010 - Decon equip
1030 - Begin soil sampling activities. See Soil Sample Collection form for lithologies and sample times.
1145 - Collect Field Reagent Blank sample FRB-SB-85 at soil sample SB-85 location while collecting soil sample
1220 - Collect EQB-HA-9 equipment blank sample off of cleaned hand auger
1500 - Collect EQB-HA-10 equipment blank sample " " " " "
1535 - End soil sampling. Drum decon water
1548 - off site
1600-1625 - lunch
1700 - Golder office, off Job

(SN) 11/29

Golder Associates

SUBJECT Fire Academy of the South - FSCJ; ERIC - 442T17235		
~~Job No.~~ Ref. Jacksonville, FL	Made by Scott Neal ~~Checked~~ ~~Reviewed~~ 65°, ~5mph	Date 11/30/2021 Sheet 1 of 1

SNeal, JSpengler

0740 - Golder office. Justin Spengler & Scott Neal Pack Truck
0800 - Calibrate YSI Multimeter and Hach Turbidimeter. See calibration log
0830 - Mob ~~to~~ site
0900 - On site. Meet with Jason (FSCJ). Set up decon area. Review HASP & PFAS SOP.
0915 - Go to creek south of JEA Easment south of AOCs 3 & 4 & begin sediment & surface water sampling. See Water Sampling forms for surface water parameters. SW samples collected using peristaltic pump & disposable tubing. Sediment samples collected after using decontaminated Stainless steel hand auger.
0935 - Collect SW-3 for PFAS
0945 - Collect SED-3 for PFAS. Gray Sandy with silt.
1005 - Collect SW-4 & duplicate sample DUP-SW-4
1025 - collect SED-4. Dark Brown silty gravel with organics
moved SED-4/SW-4 location east near outfall of wetland drainage coming south from wetland east of Fire Academy
1045 - Collect SED-13. No surface water at location to sample. Dark Brown & gray Silty Sand
1055 - Collect SED-1 at SW-1 location. Gray silty Sand & Dark Brown silty organics
1110 - Collect SED-12. No SW at location. Light gray & brown fine Sand
1125 - Collect SED-14. No SW at location. Dark Brown organic silt/muck
1140 - Collect SW-5 for PFAS
1145 - Collect SED-5 for PFAS. Black organic silt with gravel
1155 - Collect SED-2 at SW-2 location. Dark Brown coarse sand and silt.
1205 Collect SW-6 for PFAS. See Collection sheet
1210 - Collect SED-6 for PFAS. Brown Silty Sand with organics
1220 - Decon equip. Staging area.
1230 - 1325 - lunch
1335 - AOC-4 & continue SED & SW sampling
1350 - Collect SW-7 for PFAS. See Collection sheet
1400 - Collect ~~SW SED 8 for PFAS~~. SED-7 for PFAS - Dark Brown & gray silty sand
~~1407~~ SW 11/30
1410 - Collect equipment blank EQB-PP-1 through peristaltic pump, hdpe tubing, & silicon tubing
1430 - Collect FRB-SW-8 field reagent blank
1435 - Collect SW-8 for PFAS. See Collection form
1440 - Collect SED-8. Brown sandy silt with organics
1500 - SW-9 for PFAS & MS/MSD
1505 - SED-9 collected for PFAS. Dark brown organic silt and gravel
1525 - Collect SW-10 & duplicate Sample DUP-SW-10
1530 - Collect SED-10. Broad organic silt & Sand. Slight petroleum odor
1605 - Collect SW-11 for PFAS. Could not access with YSI due to location beyond fence
1608 - Collect SED-11 for PFAS. Organics with some brown silt
1620 - Unpack equip. at staging area. dump decon water into drums
1635 - off site
1710 - office. Unpack equip
1730 - off job

SW

Golder Associates

SUBJECT Fire Academy of the South; ERIC-17235		
Job No. 21470834A	Made by Scott Neal - Golder	Date 12/1/2021
~~Ref.~~ Jacksonville, FL	~~Checked~~ ~~Reviewed~~ 60°-70°, ~5 MPH	Sheet 1 of 1

Scott Neal, Justin Spengler

0745 - Meet at Golder Jacksonville office
0800 - MOB to site
0830 - Check in with Fire Academy Personnel
0840 - Review HASP, PFAS SOPs, + SOW
0900 - Set up sampling equipment, Decon, + begin soil sampling. See Soil Sampling Collection Forms for sample times + lithology. Working near burn pits in southern portion of AOC-2
0905 - Collect EQB-HA-11 from decontaminated hand Auger bucket.
1110 - Collect equipment blank sample EQB-HA-12 from decontaminated HA bucket
1250 - Soil samples from DEPSB-107, DEPSB-108, DEPSB-109, + DEPSB-110 also sampled for analysis of TRPH, PAHs, + BTEX in addition to PFAS
★ (SN) 12/1 1130-1230 - Lunch
1500 - Collect equipment blank EQB-HA-13 from hand Auger bucket. Includes TRPH, PAHs, BTEX
~~(SN) 0905 Collect EQB-HA-11~~
~~(SN) 1~~ (SN)
1445 - Drum decon water. Two 55-gal drums of decon water staged + labeled
1500 - Pack equipment
1610 - Off site
1645 - Golder office, off Job

(SN)

(SN) 12/2 5 sample coolers shipped to FDEP Tallahasse Lab via FedEx for samples collected 11/29 - 12/1

Daily PFAS Sampling Checklist

Date: 11/15/2021

Site Name: Fire Academy of the South - FSCJ

Weather (*temperature/precipitation*): 65°, 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:

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

Field Equipment:

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

Decontamination:

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

Food and Drink:

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

Notes:

Soil Sampling w/ SS Hand Augers

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 11/15/21 0730

Daily PFAS Sampling Checklist

Date: 11/16/21

Site Name: Fire Academy of the South - FSCJ

Weather (*temperature/precipitation*): 60°, 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:

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

Notes:

QA/QC Equip blanks collected

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 11/16/21 0900

Daily PFAS Sampling Checklist

Date: 11/22/2021

Site Name: Fire Academy of the South

Weather (*temperature/precipitation*): 65°, cloudy, no 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:

Equip Blanks collected. Sampling on disposable ldpe sheeting

Field Team Leader Name (Print): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 11/22/21 0930

Daily PFAS Sampling Checklist

Date: 11/23/2021

Site Name: Fire Academy of the South, ERIC - 17235

Weather (*temperature/precipitation*): 50°, clear, 10-15 mph

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:

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

Field Equipment:

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

Decontamination:

- [x] Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- [x] "PFAS-free" water is on-site for decontamination of field equipment
- [x] 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:

Equip blanks collected

Samples collected from disposable poly sheeting

Field Team Leader Name (Print): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 11/23/21 / 0820

Daily PFAS Sampling Checklist

Date: 11/29/2021

Site Name: Fire Academy of the South - FSCS; EPIC - 7421 17235

Weather (*temperature/precipitation*): Sunny, 60°

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:

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

Notes:

Field Team Leader Name (Print): Scott Neal

Field Team Leader Signature: Scott Neal

Date/Time: 11/29/21 1030

Daily PFAS Sampling Checklist

Date: 11/30/2021

Site Name: Fire Academy of the South; ERIL-17235

Weather (*temperature/precipitation*): 65°, some clouds, ~5 mph

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:

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

Field Equipment:

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

Decontamination:

- [x] Reusable field equipment (e.g., inner drill rods, samplers) decontaminated prior to reuse
- [x] "PFAS-free" water is on-site for decontamination of field equipment
- [x] 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): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 11/30/2021 / 0900

Daily PFAS Sampling Checklist

Date: 12/1/2021

Site Name: Fire Academy of the South; ERIC_17235

Weather (*temperature/precipitation*): 60°, ~5mph

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): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 12/1/2021/0845

GOLDER

Field Instrument Dissolved Oxygen & Oxidation-Reduction Potential Calibration Records

INSTRUMENT (MAKE/MODEL NO.) YSI Pro Plus **INSTRUMENT NO.** 6

STANDARD INFORMATION

Project Number: 21470834A **Project Name:** Fire Academy of the South ; ERIC-17235

Standard Vendor: GEOTECH

Prepared Date: NA **Where Prepared:** NA

Grade: N/A **DO Units:** mg/L **OR Units:** mV

ORP Standard: 220@25 °C Lot # 1GE739 Exp: Date Feb 2022 Pur. Date: May 2021

DO Standard Air Calibration Chamber in Air (Table FS 2200-2)

Standard

Standard

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	CHART 100% VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/30/21	0752	18.1	9.448	9.38	< 0.3	P	No	(Init) Cont Final	JS
11/30/21	1625	19.0	9.276	9.07	< 0.3	P	No	Init Cont (Final)	JS
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
ORP									
11/30/21	0806	19.8	228	230.0	<10 mV	P	No	(Init) Cont Final	JS
11/30/21	1639	20.0	228	223.7	<10 mV	P	No	Init Cont (Final)	JS
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.3 mg/L of the value of appropriate calibration standard. Need to record DO readings in mg/L and use Table FS 2200-2 "Dissolved Oxygen Saturation". ORP calibration reading must be within +/- 10 mV from the theoretical redox standard value at that temperature.

Field Instrument pH Calibration Records

INSTRUMENT (MAKE/MODEL NO.) *YSI Pro Plus* **INSTRUMENT NO.** 6

STANDARD INFORMATION

Project Number: _____ **Project Name:** _____

Standard Vendor: *GEOTECH*

Prepared Date: *NOV 2020* **Where Prepared:** *NA*

Purchase Date: *SEE BELOW* **Expiration Date:** *Varies* **Grade:** *N/A* **Units:** *Standard Units*

Standard *4.00 @25 °C* **Lot #** *0GH202* **Exp Date** *AUG 2022* **Purch Date** *JUL 2020*

Standard *7.00 @25 °C* **Lot #** *0GH349* **Exp Date** *AUG 2022* **Purch Date** *JUL 2020*

Standard *10.0 @25 °C* **Lot #** *0GG709* **Exp Date** *JUL 2022* **Purch Date** *JUL 2020*

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/30/21	0800	19.9	7.02	7.03	< 0.2	P	No	(Init) Cont Final	JS
11/30/21	0802	19.9	10.05	9.95	< 0.2	P	No	(Init) Cont Final	JS
11/30/21	0804	19.6	4.00	4.12	< 0.2	P	No	(Init) Cont Final	JS
11/30/21	1633	20.0	7.02	7.06	< 0.2	P	No	Init Cont (Final)	JS
11/30/21	1635	20.0	10.05	10.06	< 0.2	P	No	Init Cont (Final)	JS
11/30/21	1637	20.1	4.00	4.17	< 0.2	P	No	Init Cont (Final)	JS
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.2 pH units of the value of appropriate calibration standard.

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Field Instrument Conductivity Calibration Records

INSTRUMENT (MAKE/MODEL NO.) YSI Pro Plus **INSTRUMENT NO.** 6

STANDARD INFORMATION

Project Number: **Project Name:**

Standard Vendor: Geotech

Prepared Date: NA **Where Prepared:** NA

Grade: N/A **Units:** umhos/uS-cm

Standard 200 @25 °C Lot # 1GE217 Exp Date May 2022 Pur Date Apr 2021

Standard 1000@25 °C Lot # 1GF443 Exp Date Jun 2022 Pur Date Apr 2021

Standard 2000@25 °C Lot # 1GE871 Exp Date Feb 2022 Pur Date Jun 2021

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C°	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/30/21	0854	19.9	200	202	5%		No	**(Init)** Cont Final	JS
11/30/21	0756	19.9	1,000	986	< 5%	P	No	**(Init)** Cont Final	JS
11/30/21	0758	19.9	2,000	1970	< 5%	P	No	**(Init)** Cont Final	JS
11/30/21	1627	19.9	200	202	5%		No	Init Cont **(Final)**	JS
11/30/21	1629	20.0	1,000	964	< 5%	P	No	Init Cont **(Final)**	JS
11/30/21	1631	20.1	2,000	1933	< 5%	P	No	Init Cont **(Final)**	JS
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 5% of the appropriate calibration standard.

Note: Standards and instrument response readings are corrected to 25°C.

GOLDER

Field Instrument Turbidity Calibration Records

INSTRUMENT (MAKE/MODEL NO.) HACH **INSTRUMENT NO.** 2

Project Number: **Project Name:**

Standard Vendor: HACH

Prepared Date: NA **Where Prepared:** NA

Purchase Date: April 2021 **Expiration Date:** May 2022 **Lot Number:** SEE BELOW

Units:Nephelometric Turbidity Unit

Standard 10 Nephelometric TurbidityUnit Exp Date May 2022 LOT# A1050

Standard 20 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1042

Standard 100 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1049

Standard 800 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1050

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
11/30/21	0807	-	5.51	5.37	<10 %	P	No	(Init) Cont Final	JS
11/30/21	0808	-	57.6	57.8	<6.5 %	P	No	(Init) Cont Final	JS
11/30/21	0809	-	551	552	< 5 %	P	No	(Init) Cont Final	JS
11/30/21	1640	-	5.51	5.41	< 10 %	P	No	Init Cont (Final)	JS
11/30/21	1641	-	57.6	57.5	<6.5 %	P	No	Init Cont (Final)	JS
11/30/21	1642	-	551	546	< 5 %	P	No	Init Cont (Final)	JS
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	

Calibration values for turbidity needs to be within 10% of the standard for values between 0.1-10 NTU; 8% for values between 11-40 NTU; 6.5% for values between 41-100 NTU and 5% for values >100 NTU.

GOLDER

Equipment Services Program
Jacksonville, FL

Calibration Standards Data

Used during:
10/04/2021

Parameter	Temperature	pH			Conductivity			ORP	Turbidity			
Value	ERTCO Thermometer	4.01	7	10	200	1000	2000	220	<0.1/10	20	100	800
Measurement	Celcius	pH	pH	pH	uS/cm	uS/cm	uS/cm	mV	NTU	NTU	NTU	NTU
Volume	Liters	20	20	20	20	20	20	1 of 2	N/A	N/A	N/A	N/A
Unit of Measure	Degrees C	m/L	m/L	m/L	m/L	m/L	m/L	m/V	m/L	m/L	m/L	m/L
Lot #	2401	1GF009	1GF003	1GF458	1GE217	1GF443	1GE871	1GH946	A1050	A1042	A1049	A1050
Purchase Date	May '04	Sep-21	Sep-21	Sep-21	Apr-21	Apr-21	Jun-21	Sep-21	Apr-21	Apr-21	Apr-21	Apr-21
Preparation Date	Oct-11	Oct-21	Oct-21	Oct-21	May-21	Jun-21	Jun-21	Oct-21	Apr-21	Apr-21	Apr-21	Apr-21
Expiration Date	Oct-12	Jun-23	Jun-23	Jun-23	May-22	Jun-22	May-22	Jun-22	May-22	May-22	May-22	May-22
Vendor Name	hf scientific	Geotech	Geotech	Geotech	Geotech	Geotech	Geotech	Geotech	HACH	HACH	HACH	HACH
Loc. of Preparation	hf scientific	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER
Acceptance Criteria	+/- 0.2°C	+/- 0.2 pH units			+/- 5%			+/- 10mV	+/- 10%	+/- 8.0%	+/- 6.5%	+/- 5%

"Loc. of Preparation" indicates the transfer of solutions from manufacturers' containers to GAI containers for field use, except where otherwise noted.
No solutions are mixed or created at Golder.
"Preparation Date" is typically 1 - 3 days prior to scheduled activity, except in the case of thermometer calibration check.
ORP solution will yield more calibrations if kept clean and it requires less than 50 mL to perform a calibration check.
NIST Thermometer: Serial # 2401, Product # 1005, Inscription: ERTCO, Scale range: -1 to 101 C, Total Immersion, Scale division: 0.1

with Temperature Variations and ORP Acceptance Criteria

Acceptance Criteria: +/- 6%		
°C	µS	µS
0	321.57	1246.26
1	317.52	1270.07
2	323.58	1294.33
3	329.76	1319.05
4	336.06	1344.24
5	342.48	1369.92
6	349.02	1396.08
7	355.69	1422.75
8	362.48	1449.92
9	369.40	1477.61
10	376.46	1505.84
11	383.65	1534.60
12	390.98	1563.91
13	398.45	1593.78
14	406.06	1624.22
15	413.81	1655.24
16	421.71	1686.86
17	429.77	1719.08
18	437.98	1751.91
19	446.34	1785.37
20	454.87	1819.47
21	463.56	1854.23
22	472.41	1889.64
23	481.43	1925.73
24	490.63	1962.52
25	500.00	2000.00
26	509.55	2038.20
27	519.28	2077.13
28	529.20	2116.80
29	539.31	2157.23
30	549.61	2198.44
31	560.11	2240.43
32	570.80	2283.22
33	581.71	2326.83
34	592.82	2371.27
35	604.14	2416.56
36	615.68	2462.72
37	627.44	2509.76
38	639.42	2557.69
39	651.64	2606.54
40	664.08	2656.33
41	676.77	2707.07
42	689.69	2758.77
43	702.87	2811.46
44	716.29	2865.16
45	729.97	2919.89

Acceptance Criteria: +/- 0.2 pH units			
°C	pH 4	pH 7	pH 10
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10	4.00	7.06	10.15
11			
12			
13			
14			
15	4.00	7.04	10.10
16			
17			
18			
19			
20	4.00	7.02	10.05
21			
22			
23			
24			
25	4.01	7.00	10.00
26			
27			
28			
29			
30	4.01	6.99	9.96
31			
32			
33			
34			
35	4.02	6.98	9.92
36			
37			
38			
39			
40	4.03	6.97	9.87
41			
42			
43			
44			
45			

No Acceptance Criteria	
°C	mV
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	245
11	
12	12.5 = 240.5
13	
14	
15	236
16	
17	17.5 = 232
18	
19	
20	228
21	
22	22.5 = 224
23	
24	
25	220
26	
27	27.2 = 216
28	
29	
30	212
31	
32	32.5 = 208
33	
34	
35	204
36	
37	37.5 = 199.5
38	
39	
40	195
41	
42	42.5 = 191
43	
44	
45	187

O:\Bill Bleich\FIELD FORMS and DATA\ *(file name)*

[illegible]

with Temperature Variations and FDEP Acceptance Criteria

Dissolved Oxygen Saturation Values

Acceptance Criteria +/- 0.3 mg/L

°C	D.O. SAT.	mg/L 20%
15	10.084	2.017
15.1	10.062	2.012
15.2	10.04	2.008
15.3	10.018	2.004
15.4	9.997	1.999
15.5	9.976	1.995
15.6	9.955	1.991
15.7	9.934	1.987
15.8	9.912	1.982
15.9	9.891	1.978
16	9.87	1.974
16.1	9.849	1.97
16.2	9.829	1.966
16.3	9.808	1.962
16.4	9.787	1.957
16.5	9.767	1.953
16.6	9.746	1.949
16.7	9.726	1.945
16.8	9.705	1.941
16.9	9.685	1.937
17	9.665	1.933
17.1	9.645	1.929
17.2	9.625	1.925
17.3	9.605	1.921
17.4	9.585	1.917
17.5	9.565	1.913
17.6	9.545	1.909
17.7	9.526	1.905
17.8	9.506	1.901
17.9	9.486	1.897
18	9.467	1.893
18.1	9.448	1.89
18.2	9.428	1.886
18.3	9.409	1.882
18.4	9.39	1.878
18.5	9.371	1.874
18.6	9.352	1.87
18.7	9.333	1.867
18.8	9.314	1.863
18.9	9.295	1.859
19	9.276	1.855
19.1	9.258	1.852
19.2	9.239	1.848
19.3	9.22	1.844
19.4	9.202	1.84
19.5	9.184	1.837
19.6	9.165	1.833
19.7	9.147	1.829
19.8	9.129	1.826
19.9	9.111	1.822
20	9.092	1.818
20.1	9.074	1.815
20.2	9.056	1.811
20.3	9.039	1.808
20.4	9.021	1.804
20.5	9.003	1.801
20.6	8.985	1.797
20.7	8.968	1.794
20.8	8.95	1.79
20.9	8.932	1.786
21	8.915	1.783
21.1	8.898	1.78
21.2	8.88	1.776
21.3	8.863	1.773
21.4	8.846	1.769
21.5	8.829	1.766
21.6	8.812	1.762
21.7	8.794	1.759
21.8	8.777	1.755
21.9	8.761	1.752
22	8.744	1.749
22.1	8.727	1.745
22.2	8.71	1.742
22.3	8.693	1.739
22.4	8.677	1.735
22.5	8.66	1.732
22.6	8.644	1.729
22.7	8.627	1.725
22.8	8.611	1.722
22.9	8.595	1.719
23	8.578	1.716
23.1	8.562	1.712
23.2	8.546	1.709
23.3	8.53	1.706
23.4	8.514	1.703
23.5	8.498	1.7
23.6	8.482	1.696
23.7	8.466	1.693
23.8	8.45	1.69
23.9	8.434	1.687
24	8.418	1.684
24.1	8.403	1.681
24.2	8.387	1.677
24.3	8.371	1.674
24.4	8.356	1.671
24.5	8.341	1.668
24.6	8.325	1.665
24.7	8.31	1.662
24.8	8.294	1.659
24.9	8.279	1.656
25	8.263	1.653
25.1	8.248	1.65
25.2	8.233	1.647
25.3	8.218	1.644
25.4	8.203	1.641
25.5	8.188	1.638
25.6	8.173	1.635
25.7	8.158	1.632
25.8	8.143	1.629
25.9	8.128	1.626
26	8.114	1.623
26.1	8.099	1.62
26.2	8.084	1.617
26.3	8.07	1.614
26.4	8.055	1.611
26.5	8.04	1.608
26.6	8.026	1.605
26.7	8.012	1.602
26.8	7.997	1.599
26.9	7.983	1.597
27	7.968	1.594
27.1	7.954	1.591
27.2	7.94	1.588
27.3	7.926	1.585
27.4	7.912	1.582
27.5	7.898	1.58
27.6	7.884	1.577
27.7	7.87	1.574
27.8	7.856	1.571
27.9	7.842	1.568
28	7.828	1.566
28.1	7.814	1.563
28.2	7.8	1.56
28.3	7.786	1.557
28.4	7.773	1.555
28.5	7.759	1.552
28.6	7.745	1.549
28.7	7.732	1.546
28.8	7.718	1.544
28.9	7.705	1.541
29	7.691	1.538
29.1	7.678	1.536
29.2	7.664	1.533
29.3	7.651	1.53
29.4	7.638	1.528
29.5	7.625	1.525
29.6	7.611	1.522
29.7	7.598	1.52
29.8	7.585	1.517
29.9	7.572	1.514
30	7.559	1.512
30.1	7.546	1.509
30.2	7.533	1.507
30.3	7.52	1.504
30.4	7.507	1.501
30.5	7.494	1.499
30.6	7.481	1.496
30.7	7.468	1.494
30.8	7.456	1.491
30.9	7.443	1.489

...rived using the formula in *Standard Methods for the Examination of Water and Wastewater*, Page 4-101, 18th Edition, 1992

U:\[illegible] FIELD FORMS and DATA\DO saturation chart from FL DEP SOPs.xls

Parameter Calibration Values

Dissolved Oxygen Saturation Values with Temperature Variations

Supplemental Values from 0°C to 15°C

°C	D.O. SAT.	mg/L
0.1	13.3171	2.663
0.2	13.2954	2.659
0.3	13.2737	2.655
0.4	13.252	2.650
0.5	13.2303	2.646
0.6	13.2086	2.642
0.7	13.1869	2.637
0.8	13.1652	2.633
0.9	13.1435	2.629
1	13.1218	2.624
1.1	13.1001	2.620
1.2	13.0784	2.616
1.3	13.0567	2.611
1.4	13.035	2.607
1.5	13.0133	2.603
1.6	12.9916	2.598
1.7	12.9699	2.594
1.8	12.9482	2.590
1.9	12.9265	2.585
2	12.9048	2.581
2.1	12.8831	2.577
2.2	12.8614	2.572
2.3	12.8397	2.568
2.4	12.818	2.564
2.5	12.7963	2.559
2.6	12.7746	2.555
2.7	12.7529	2.551
2.8	12.7312	2.546
2.9	12.7095	2.542
3	12.6878	2.538
3.1	12.6661	2.533
3.2	12.6444	2.529
3.3	12.6227	2.525
3.4	12.601	2.520
3.5	12.5793	2.516
3.6	12.5576	2.512
3.7	12.5359	2.507
3.8	12.5142	2.503
3.9	12.4925	2.499
4	12.4708	2.494
4.1	12.4491	2.490
4.2	12.4274	2.485
4.3	12.4057	2.481
4.4	12.384	2.477
4.5	12.3623	2.472
4.6	12.3406	2.468
4.7	12.3189	2.464
4.8	12.2972	2.459
4.9	12.2755	2.455
5	12.2538	2.451

°C	D.O. SAT.	mg/L
5.1	12.2321	2.446
5.2	12.2104	2.442
5.3	12.1887	2.438
5.4	12.167	2.433
5.5	12.1453	2.429
5.6	12.1236	2.425
5.7	12.1019	2.420
5.8	12.0802	2.416
5.9	12.0585	2.412
6	12.0368	2.407
6.1	12.0151	2.403
6.2	11.9934	2.399
6.3	11.9717	2.394
6.4	11.95	2.390
6.5	11.9283	2.386
6.6	11.9066	2.381
6.7	11.8849	2.377
6.8	11.8632	2.373
6.9	11.8415	2.368
7	11.8198	2.364
7.1	11.7981	2.360
7.2	11.7764	2.355
7.3	11.7547	2.351
7.4	11.733	2.347
7.5	11.7113	2.342
7.6	11.6896	2.338
7.7	11.6679	2.334
7.8	11.6462	2.329
7.9	11.6245	2.325
8	11.6028	2.321
8.1	11.5811	2.316
8.2	11.5594	2.312
8.3	11.5377	2.308
8.4	11.516	2.303
8.5	11.4943	2.299
8.6	11.4726	2.295
8.7	11.4509	2.290
8.8	11.4292	2.286
8.9	11.4075	2.282
9	11.3858	2.277
9.1	11.3641	2.273
9.2	11.3424	2.268
9.3	11.3207	2.264
9.4	11.299	2.260
9.5	11.2773	2.255
9.6	11.2556	2.251
9.7	11.2339	2.247
9.8	11.2122	2.242
9.9	11.1905	2.238
10	11.1688	2.234

°C	D.O. SAT.	mg/L
10.1	11.1471	2.229
10.2	11.1254	2.225
10.3	11.1037	2.221
10.4	11.082	2.216
10.5	11.0603	2.212
10.6	11.0386	2.208
10.7	11.0169	2.203
10.8	10.9952	2.199
10.9	10.9735	2.195
11	10.9518	2.190
11.1	10.9301	2.186
11.2	10.9084	2.182
11.3	10.8867	2.177
11.4	10.865	2.173
11.5	10.8433	2.169
11.6	10.8216	2.164
11.7	10.7999	2.160
11.8	10.7782	2.156
11.9	10.7565	2.151
12	10.7348	2.147
12.1	10.7131	2.143
12.2	10.6914	2.138
12.3	10.6697	2.134
12.4	10.648	2.130
12.5	10.6263	2.125
12.6	10.6046	2.121
12.7	10.5829	2.117
12.8	10.5612	2.112
12.9	10.5395	2.108
13	10.5178	2.104
13.1	10.4961	2.099
13.2	10.4744	2.095
13.3	10.4527	2.091
13.4	10.431	2.086
13.5	10.4093	2.082
13.6	10.3876	2.078
13.7	10.3659	2.073
13.8	10.3442	2.069
13.9	10.3225	2.065
14	10.3008	2.060
14.1	10.2791	2.056
14.2	10.2574	2.051
14.3	10.2357	2.047
14.4	10.214	2.043
14.5	10.1923	2.038
14.6	10.1706	2.034
14.7	10.1489	2.030
14.8	10.1272	2.025
14.9	10.1055	2.021
15	10.084	2.017

ORP MEASUREMENTS

REFERENCE TABLE

Temperature °F	Temperature °C	Potential in mV
32	0	237
41	5	232
50	10	230
59	15	227
68	20	233
77	25	220
86	30	216
95	35	213
104	40	209
113	45	205
122	50	201
131	55	197
140	60	193
149	65	189
158	70	185

Created: 10/19/2007(jaf)

Conductivity Temperature Chart
Solution 1000µs/cm @ 25C

Temp C	Temp F	µS
5	41.5	682
10	50.0	751
15	59.0	826
16	60.8	842
17	62.6	858
18	64.4	875
19	66.2	892
20	68.0	909
21	69.8	926
22	71.6	944
23	73.4	962
24	75.2	981
25	77.0	1000
26	78.8	1019
27	80.6	1039
28	82.4	1059
29	84.2	1079
30	86.0	1100

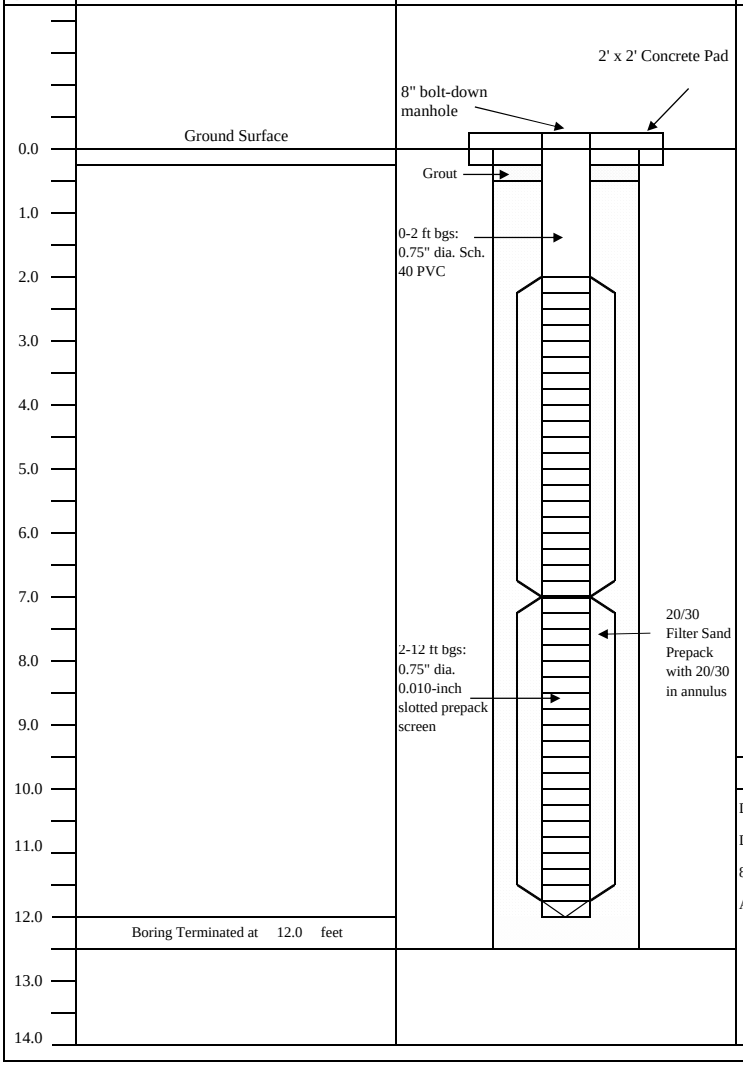
MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-1S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	8:40 AM / 12/15/2021 TIME/DATE	COMPLETED	9:00 AM / 12/15/2021 TIME/DATE

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH



WELL SKETCH

INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 1/20/22 1551 to 1615. 2.44' Static DTW. ~0.7 gpm

Drawdown to 4.55'. Initially >1000 NTUs.

8 Gallons total developed - slight gray tint, no odor, 19.8 NTUs

All Development water was drummed.

MONITORING WELL INSTALLATION LOG

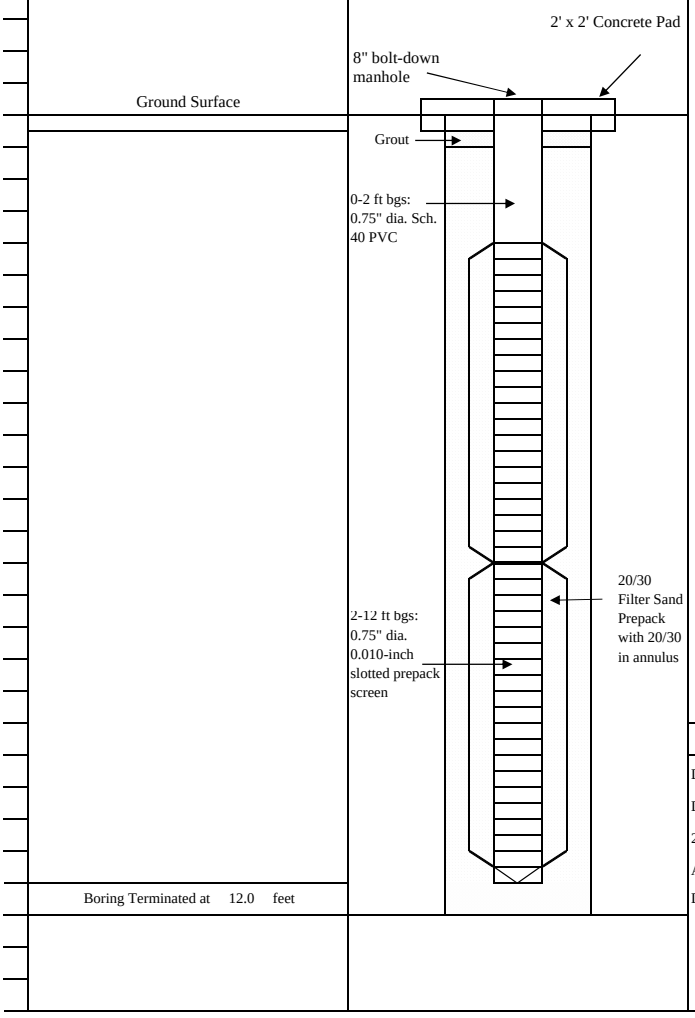
JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-2S	SHEET	1 OF 1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	3:35 PM / 12/14/2021 TIME/DATE	COMPLETED	3:50 PM / 12/14/2021 TIME/DATE

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH

WELL SKETCH



INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 1/20/22 1105 to 1145. 2.98' Static DTW. ~1.1 gpm

Drawdown to 4.21'. 0.1 gal- >1000 NTUs. 5gal -341 NTUs, 10gal - 159 NT

20 Gallons total developed - slight gray tint, slight organic odor, 82.0 NTUs

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

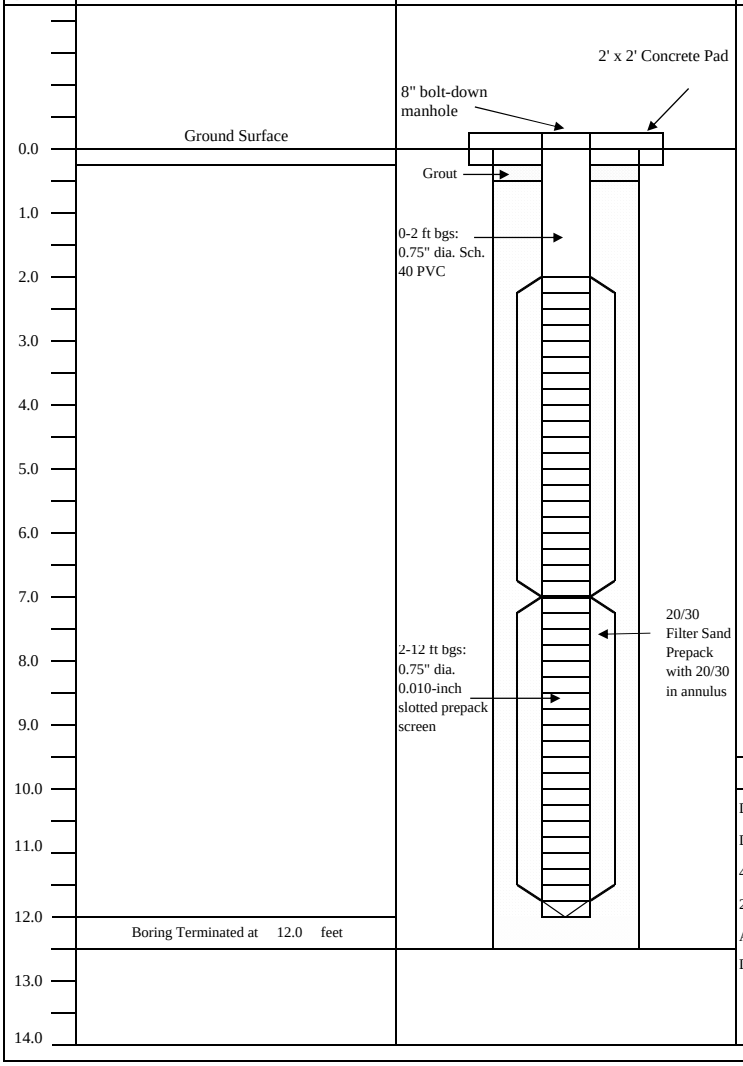
MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-3S	SHEET	1 OF 1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	12/14/2021 13:55:00 TIME/DATE	COMPLETED	12/14/2021 14:40:00 TIME/DATE

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH



WELL SKETCH

INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 1/20/22 1334 to 1410. 2.83' Static DTW. ~1.1 gpm

Drawdown to 8.99'. 0.1 gal- >1000 NTUs. Silty. Organic Odor

4 gal >1000 NTUs. Slowed to 0.5 gmp.

20 gal total. ~4000 NTUs after dilution. Dark brown. Organic odor.

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

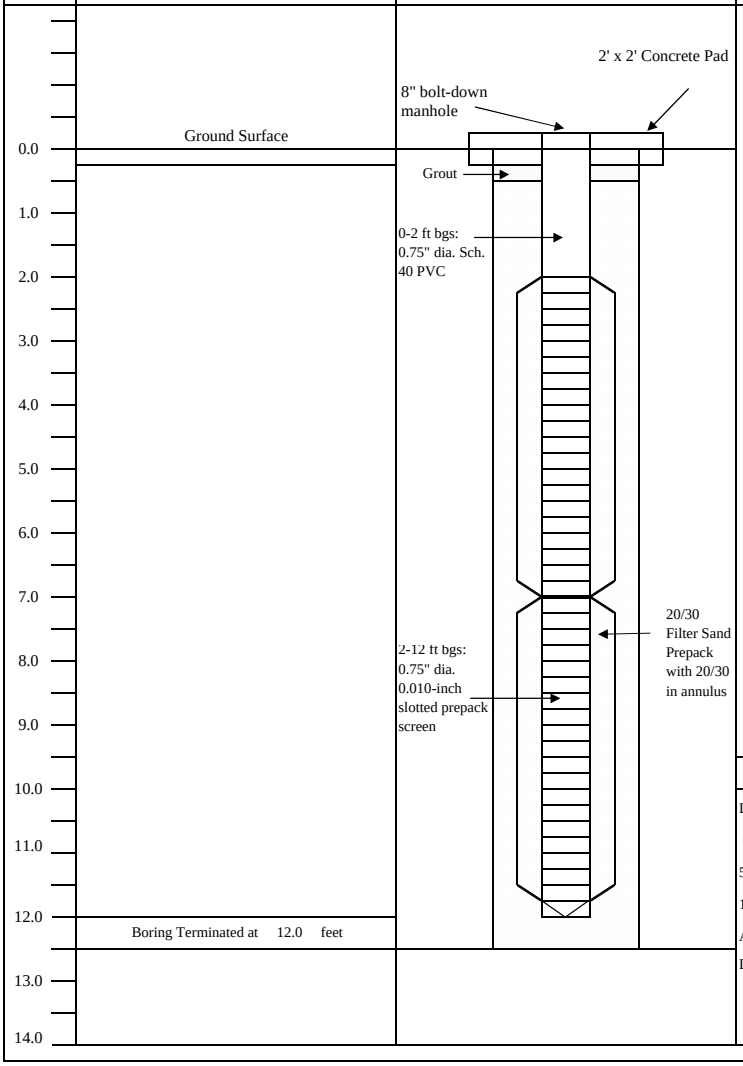
MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-4S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	9:30 AM / 12/15/2021 TIME/DATE	COMPLETED	9:45 AM / 12/15/2021 TIME/DATE

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH



WELL SKETCH

INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 1/20/22 1424 to 1455. 3.05' Static DTW. ~1 gpm

0.1 gal- >1000 NTUs. Silty. Organic Odor

5 gal - pumped dry. Slowed to 0.6 gmp. 624 NTUs.

12 gal total. Brown tint. Organic odor. 70 ntus.

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

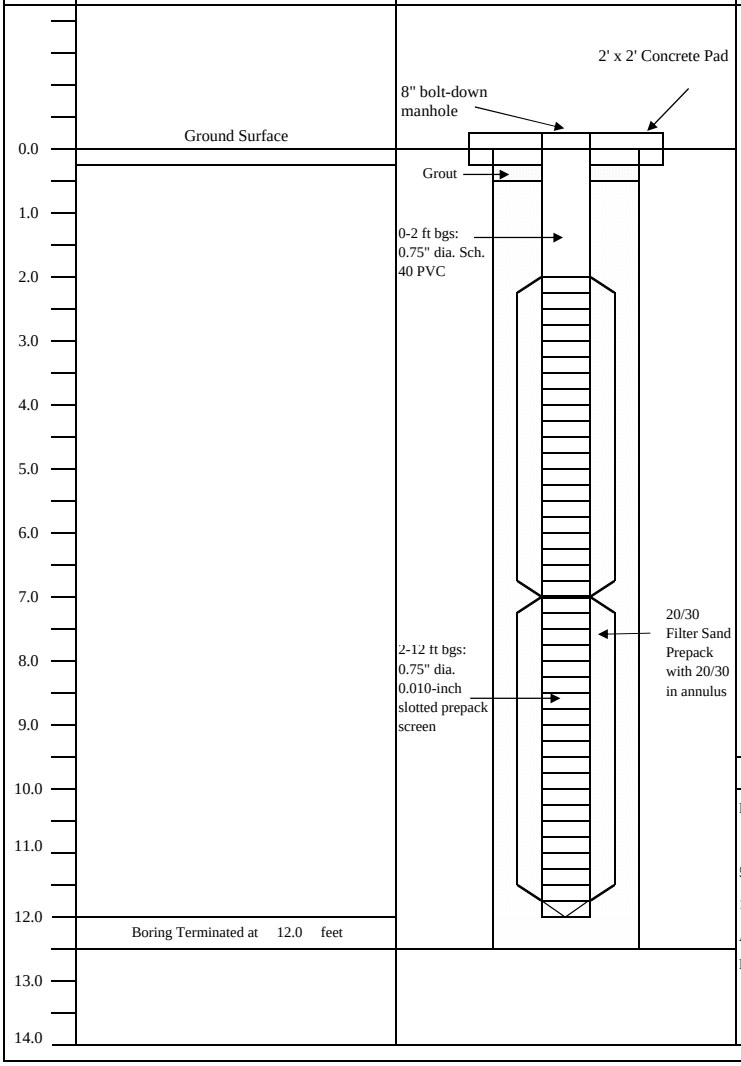
MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-5S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	8:10 AM / 12/15/2021 TIME/DATE	COMPLETED	8:30 AM / 12/15/2021 TIME/DATE

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH



WELL SKETCH

INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 1/20/22 1629 to 11705. 2.49' Static DTW. ~1 gpm

0.1 gal- >1000 NTUs. Silty. chemical Odor

5 gal - 7.5' dtw. >1000 NTUs.

19 gal total. 2,500 NTUs after dilution. Dark brown. Organic and chem odor

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-6S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	2:20 PM / 12/14/2021 TIME/DATE	COMPLETED	2:45 PM / 12/14/2021 TIME/DATE

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

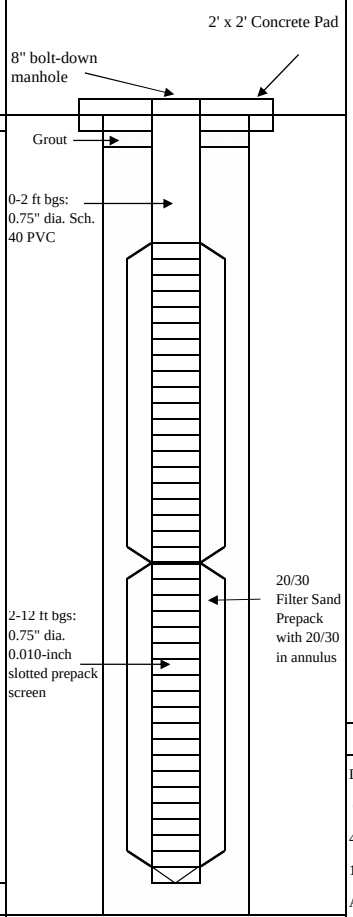
ELEV./ DEPTH

0.0
1.0
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
10.0
11.0
12.0
13.0
14.0

Ground Surface

Boring Terminated at 12.0 feet

WELL SKETCH



INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 1/20/22 1252 to 1320. 2.24' Static DTW. ~1 gpm

0.1 gal- >1000 NTUs. Dark Brown. Organic odor

4 gal - 383 NTUs, 14 gal - 52 NTUs, brown tint, slight organic odor

18 gal total. 35.5 NTUs. Brown tint. Slight organic odor. 4.10' dtw drawdow

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

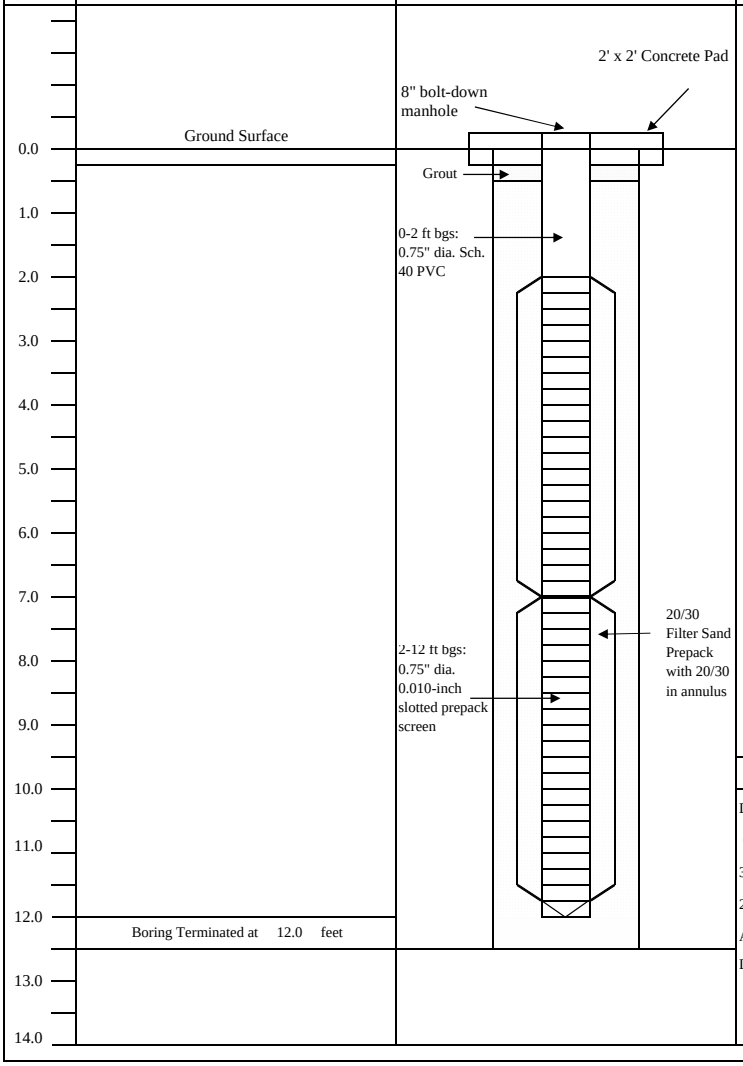
MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-7S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	2:50 PM / 12/14/2021 (TIME/DATE)	COMPLETED	12/14/2021 13:10:00 (TIME/DATE)

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH



WELL SKETCH

INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 1/20/22 1158 to 1238. 2.90' Static DTW. ~1.1 gpm

0.1 gal- >1000 NTUs. Dark Brown. Organic odor

3 gal - 104 NTUs, 9 gal - 65 NTUs

20 gal total. 18.1 NTUs. Dark brown tint. Slight organic odor.

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

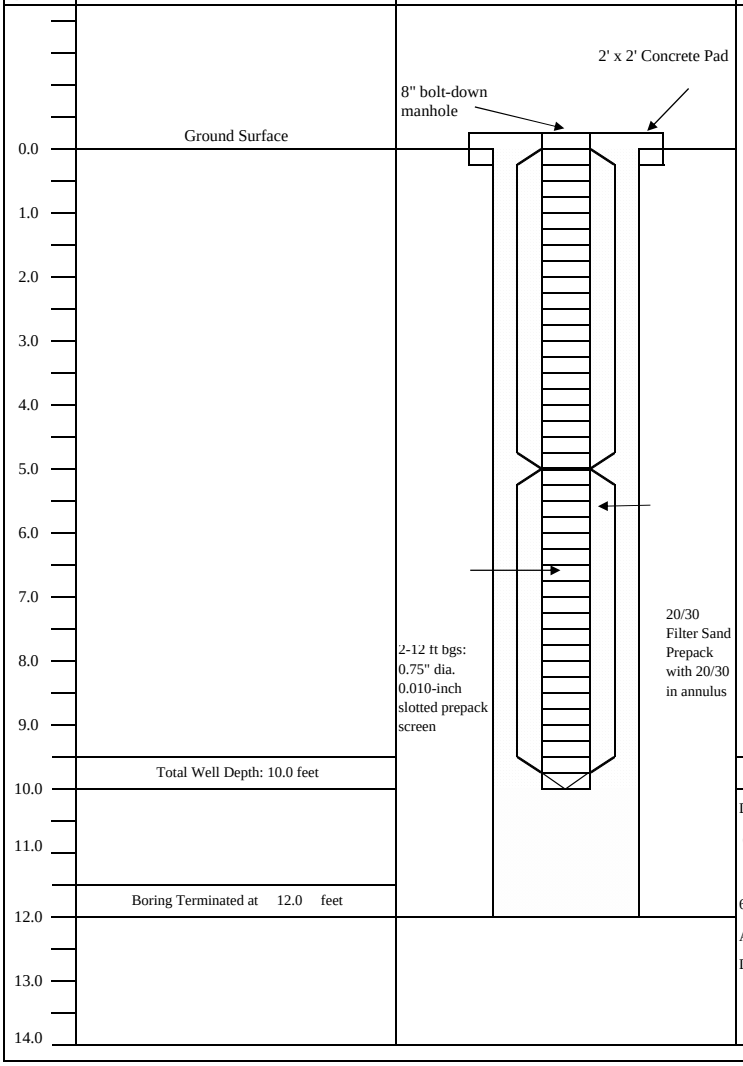
MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-8S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	FDEP - SIS Group	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Truck-Mounted GeoProbe 6600	STARTED	12/14/2021 15:55:00 PM TIME/DATE	COMPLETED	12/14/21 16:15:00 PM TIME/DATE

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~10 lbs 20/30 in annulus to surface
GROUT QUANTITY	only in manhole	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH



INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

Well screen pulled from 2-12 ft bgs to 0-10 ft bgs during construction

WELL DEVELOPMENT NOTES

Developed 3/8/22 1511 to 1540. 1 gmp. 2.52 ft dtw static

0.1 gal- >1000 NTUs. Dark Brown. Organic odor

6 gal total. 15.5 NTUs, clear, slight organic odor, 4.53' dtw max drawdown

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

SUBJECT Fire Academy of the South - FSCJ; ERIC_7421		
~~Job No.~~ 70°, cloudy Ref. SNeal, FDEPSIS	Made by Scott Neal ~~Checked~~ ~~Reviewed~~ Jacksonville, FL	Date 12/13/21 Sheet 1 of 1

1030 - Pack equipment at Golder Jacksonville, FL office
1100 - leave Golder office
1130 - On site. Check-in with Jason (FSCJ)
1145 - Jeff N. & Dennis on site from Tallahassee, FL
1230 - Bobby, John, & Justin on site with GeoProbe 6600 truck-mounted drill rig
1235 - Review S.O.W., HASP, & PFAS SOPs with FDEP & Jason (FSCJ)
1255 - Bobby & Justin construct decon pit
1255 - Set up drill rig on HPT-2 / VP-2 location in northern portion of AOC-2.
1310 - Set up Hydraulic profiling Tool equipment (GeoProbe K6300 Flow Module & GeoProbe FI6000), Calibrate HPT sensors
1400 - Begin HPT activities (See FDEP logs) to identify vertical profiling intervals
NOTES: Low-Permeability from ~11' to 15' bgs
Low-Permeability ~47'
" " ~52'-65', 65'-End Point

Proposed VP intervals: ~~28-33~~ (SN) 33-37', ~~48-52~~, 64-68, 43-47, 50-54'
1530 - Break down equipment and move to ~~HPT-2~~ HPT-1 (SN) in AOC-1
1550 - Start ~~HPT-2~~ HPT-1 (SN)
NOTES: • Low permeability layers 6-8', 10-12', 15-16', 20', 50'-51'
End point @ 53' bgs
Proposed intervals: ~~33-37'~~, 38-42', 46-50', 26-30', 50'+ if possible
1645 - Remove tooling & pack equipment
1705 - off site
1740 - office

(SN)

SUBJECT Fire Academy of the South - FSCJ; ERIC-7421		
Job No. Ref. Scott Neal & FDEP SIS	Made by Scott Neal (Golder) Checked Reviewed Jacksonville, FL	Date 12/14/2021 Sheet 1 of 1

70°, calm, cloudy

0800 - On site. FDEP SIS (Jeff, Dennis, Justin, Bobby, John) on site. Review HASP & SOW

0830 - Set up ~~track~~ (SW) Truck-mounted Geoprobe 6600 on HPT-3 in AOC-3. Moved to edge of asphalt pavement due to inaccessability of proposed location across drainage swale

0845 - Advance HPT-3. NOTES:
- Low Permeability at ~~5' bgs~~ (SW) 7', 11', 46-48, 54-56
- HPT Pressure sensor suspected broken at ~14'
- Conductivity shows clay at ~26'. Started working again at ~45'
- " " " 54-56',
- stopped HPT @ ~63'

Proposed intervals: 53-57', 36-40', 20-24', Refusal

0955 - Remove tooling and move to HPT-4 in AOC-4

1010 - Set up on HPT-4 with DPT rig. NOTES:
- Low conductivity 11-16' bgs. High conductivity 38-48' (clay)
- Pressure log not reliable
- Hardpan suspected site wide @ ~11-15'. Clay unit suspected ~38'-48'

33-37', 48-52, 20-24', Refusal

1130 - Remove tooling. Difficulty pulling through hardpan near surface

1200 - 1250 - lunch. ~~Karli & Nicki~~ Karli & Nicki (FDEP) on site

1255 - Set up on VP-3 in AOC-3 (HPT-3 location)

1300 - Push stainless steel 2" rods to 24' bgs. Expose 4' slotted screen for vertical profile sampling. Pump with peristaltic pump & disposable 3/8" HDPE tubing.

1335 - Sample VP-3-20-24 for PFAS. ~~-g~~ (SW) ~ gallons pumped

1345 - Difficulty removing tooling through hardpan. FDEP moves to shallow well installation.

1355 - Push 2 1/2" rods to 12' bgs & install DEPMW-3S at VP-3/HPT-3 location. See well installation Log. 4.2' dtw. ~~0.07~~ (SW) 0.75"

1420 - Push 2 1/2" rods to 12' bgs & install DEPMW-6S. 0.75" prepack. See Monitoring Well installation log. * Slight Petroleum/sulfur smell at ~3' in soil

1450 - Push 2 1/2" rods to 12' bgs at DEPMW-7S in AOC-3. SEE Monitoring Well installation Log.

1510 - Decon Drill rods/tooling

1535 - Set up rig on DEPMW-2S in AOC-2. See Monitoring well Installation Log.

1555 - Karli & Nicki off site. Setup on & install shallow monitoring well DEPMW-8S in AOC-1. See Monitoring Well Installation Log. * Well pulled up during installation. TD: 10 ft. SI: 0'-10' bgs

1615 - Decon tooling; All off site

1705 - offsite

(SW)

SUBJECT Fire Academy of the South; FSCJ		
Job No. FDEP-SIS Ref. Scott Neal - Golder	Made by Scott Neal (Golder) ~~Checked~~ SN ~~Reviewed~~ Jacksonville, FL	Date 12/15/2021 Sheet 1 of 1

67°, clear, calm → 77° clear, calm

0755 - On site. FDEP-SIS (Justin, Bobby, John) on site. Review HASP, SOW, PFAS SOPs
0810 - Move GeoProbe 6600 Truck-mounted rig to Proposed DEPMW-5S shallow monitoring well location in AOC-1. Hand Auger to 5 ft bgs to clear utilities
0816 - Push 2 1/2" rods to 12' bgs and install 0.75" prepack screen well. See Monitoring well installation Log. DEPMW-5S
0840 - Move to DEPMW-1S in AOC-1 and install 0.75-inch prepack screen shallow monitoring well to 12' bgs. See Monitoring well installation log.
0905 - DECON tooling
0930 - Move to DEPMW-4S in AOC-4 and install 12' shallow monitoring well ~~to~~ SN with 0.75-inch prepack screen. See Monitoring well installation log.
*0910 - Jeff & Dennis (FDEP) on site with sand and concrete for wells and well pads. Begin ~~pour~~ SN building 2'x2' concrete pads for wells.
0945 - Matt Crews (Golder) on site. Review HASP
0950 - Collect soil sample DEPSB-111-0.5 for PFAS @ DEPMW-4S location. See Soil Sample form
0955 - " " " DEPSB-111-2.0 " "
1000 - " " " DEPSB-111-3.5 " "
1020 - Collect SED-8. Previous sample lost in Shipping Process.
1045 - Break concrete at DEPSB-112 and DEPSB-113 locations in AOC-2
1055 - Collect soil sample DEPSB-112-0.5 for PFAS. See Soil Sample Collection form.
1100 - " " " DEPSB-112-2.0 " "
1110 - " " " DEPSB-113-0.5 " "
1115 - " " " DEPSB-113-2.0 " "
1115 - Matt Crews off site
1125 - Move to HPT-3/DEPMW-3S location & advance GeoProbe soil sleeve to ft bgs to retrieve core of suspected hardpan that is present approximately 4' thick near 10' bgs throughout site

DEPMW-4S

DEPTH	~~Lithology~~ SN
~~0-0.5~~	~~Dark Brn FS~~
0.5-1.0' SN	9-13 ft bgs: dark gray fine sand to dark brown fine sand with some organics
1-2	
~~2-3~~	
~~3-4~~	
~~4-5~~	

1150 - Continue constructing pads, GPS well locations, Place ID tags on wells
1300 - Collect sample of "Ansulite 3x3" 3% AFFF Product from 5-gal bucket found in the pump shed located to the SW of the aircraft prop in AOC-3. Product is a light green/yellow gel.
1315 - Collect equipment blank sample EQB-HA-14 from hand Auger
1320 - Decon pit taken down & 1 55 gallon Drum of IDW water staged in the Eastern portion of AOC-2.
1345 - All off site, DEP to Tallahassee, FL
1410 - office, off Job SN

SUBJECT Fire Academy of the South; ERIC_17235		
Job No. 20147083A	Made by Scott Neal	Date 1/20/2022
~~Ref.~~ Jacksonville, FL	~~Checked~~ ~~Reviewed~~ 70°, clear, calm	Sheet 1 of 1

1000 - Leave Golder office in Rental truck
1015 - Food/lunch
1045 - On site. Check in with Fire Academy Personnel. Review HASP + PFAS SOPs
1100 - Set up on DEPMW-2S to develop well. All wells developed with high-capacity peristaltic pump and 3/8" hdpe tubing. Water pumped directly to drum or to 5-gal bucket then drum.

DEPMW-2S (SN)

1105 - Begin MW-2S development. 2.98' static DTW. >1,000 ntus initially. ~1.1 gpm
5 gal: 341 ntus 10 gal: 159 ntus 20 gal total: 82.0 ntus, slight organic odor. Dropped to 4.21' DTW during development
1158 - Begin DEPMW-7S development. Static DTW: 2.90', ~1.1 gpm, Initial: >1,000 ntus
3 gal: 104 ntus. 9 gal: 65 ntus 20 gal: 18.1 ntus, dark brown tint, slight organic odor
1252 - Begin DEPMW-6S development. 2.24' static DTW. Initial: Dark Brown, organic, >1000 ntus.
4 gal: 383 ntus, 14 gal: 52 ntus, Brown tint, Slight organic odor. 18 gal: End development, 35.5 ntus, brown tint, slight organic odor, 4.70' DTW
1334 - Begin development of DEPMW-3S. 2.83' DTW static. Initial: Silty, dark brown, organic odor, >1,000 ntus. 4 gal: >1000 ntus, 8.99' DTW. Slow to 0.5gpm
20 gal total: ~4000 ntus after dilution, dark brown, organic odor
1424 - Begin DEPMW-4S development. 3.05' DTW static. Initial: >1000 ntus, Dark brown, organic odor. 5 gal: Pumped dry, 624 ntus, slow to ~0.6 gpm
6 gal: 295 ntus 12 gal total: Brown tint, organic odor, 70 ntus, no sediment
1511 - DEPMW-8S development. Static DTW: 2.52' Initial: ~1 gpm, Dark Brown, organic odor, >1000 ntus 6 gal: clear, slight organic odor, 15.5 ntus, 4.53' DTW max drawdown
1551 - Begin DEPMW-1S development. Static DTW: 2.44', Initial: >1000 ntus, brown, organic odor. 8 gal: 19.8 ntus, Slight gray tint, no odor, 4.55' ~~DTW~~ (SN) DTW max drawdown
1629 - DEPMW-5S development. Static DTW: 2.49' ~~DTW~~ (SN) Initial: >1000 ntus, chemical odor + organic odor, Dark brown. 5 gal: 7.5' dtw, >1000 ntus, 19 gal total: ~2,500 ntus after dilution, dark brown, organic + chemical odor
1725 - label drums. 4 drums total (liquid) for soil/DPT decon + development.
1735 - off site
1805 - office. Off job

(SN)

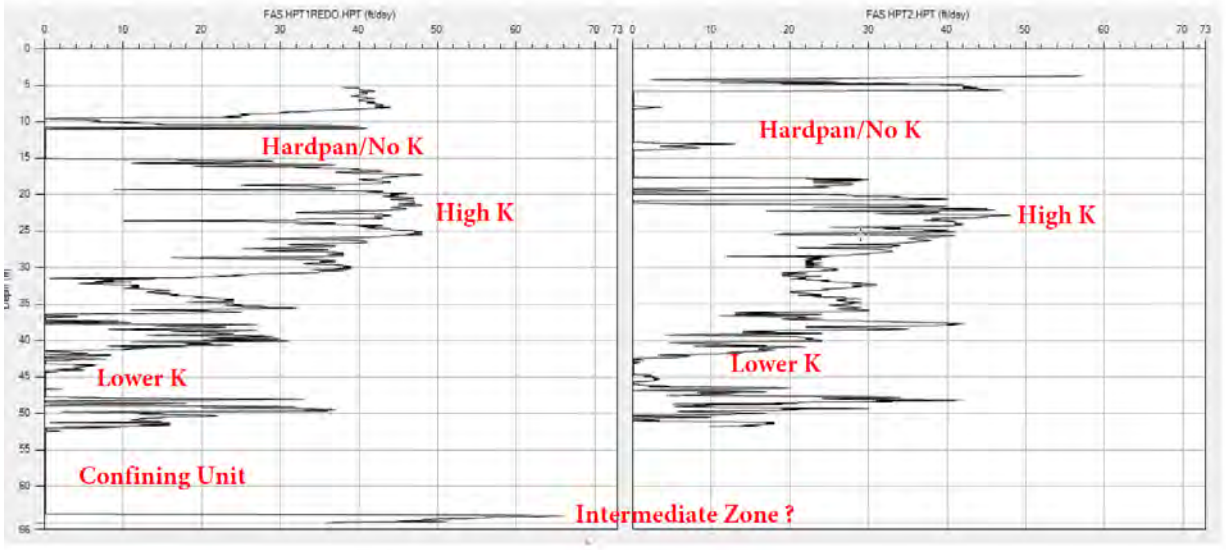
From: Newton, Jeff
To: Neal, Scott; Crews, Matt
Subject: Hydraulic Profiling Tool Results Fire Academy of the South
Date: Monday, December 20, 2021 2:42:47 PM
Attachments: image001.png

EXTERNAL EMAIL

Data from HPT 1 & 2 before the tool started malfunctioning. Let you both take a look and then decide where we go next

Jeff Newton
Florida Department of Environmental Protection
Waste Management/Site Investigation Section
Professional Geologist
Jeff.Newton@FloridaDEP.gov
Office: 850 245-8955
Cell: 850 508-7712

Hydraulic Conductivity (K) in feet oer day at two different locations at FAOS, The hardpan we encountered is an impermeable zone. We set our shallow wells screened from 2 to 12 feet BLS with the screen penetrating into the hardpan and catching the transition from High K to Low K and hopefully at this transition the majority of the PFAS. We may set intermediate depths at 45 feet BLS to catch the second transition from High to Low K. Dave Meyers suggest screen-points as well.



Jeff Newton
Florida Department of Environmental Protection
Waste Management/Site Investigation Section
Professional Geologist
Jeff.Newton@FloridaDEP.gov
Office: 850 245-8955
Cell: 850 508-7712

Daily PFAS Sampling Checklist

Date: 12/13/2021

Site Name: ERIC_17235 - Fire Academy of the South - FSCJ

Weather (*temperature/precipitation*): 70°, cloudy

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:

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

Field Equipment:

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

Decontamination:

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

Food and Drink:

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

Notes:

Site orientation + Review SOPs w/ drillers.

Water used for drilling/decon tested + is PFAS-free

Field Team Leader Name (Print): Scott Neal - Golder

Field Team Leader Signature: Scott Neal.

Date/Time: 12/13/21 / 1250

Daily PFAS Sampling Checklist

Date: 12/14/2021

Site Name: Fire Academy of the South - FSCJ; ERIC_17235

Weather (*temperature/precipitation*): 70°, calm, cloudy

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:

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

Field Equipment:

- [x] Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- [x] Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- [ ] No materials containing Teflon™, Viton™, or fluoropolymers
- [x] No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
- [x] No plastic clipboards, binders, or spiral hard cover notebooks
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- [x] No aluminum foil
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Decontamination:

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

Food and Drink:

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

Notes:

Field Team Leader Name (Print): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 12/14/21 / 0820

Daily PFAS Sampling Checklist

Date: 12-15-2021

Site Name: ERIC-17235 : Fire Academy of the South

Weather (*temperature/precipitation*): 67°, calm, 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:

Drilling water on site tested & is PFAS-free

Field Team Leader Name (Print): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 12/15/2021 / 0800

Daily PFAS Sampling Checklist

Date: 1/20/2022

Site Name: Fire Academy of the South - ERIC_17235

Weather (*temperature/precipitation*): 70°, calm

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:

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

Field Equipment:

- [x] Sample containers and equipment in direct contact with the sample are made of HDPE, polypropylene, silicone, acetate or stainless steel, not LDPE or glass
- [x] Sample caps are made of HDPE or polypropylene and are not lined with Teflon™
- [x] No materials containing Teflon™, Viton™, or fluoropolymers
- [x] No materials containing LDPE in direct contact with the sample (e.g., LDPE tubing, Ziploc® bags)
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- [x] No chemical (blue) ice, unless it is contained in a sealed bag
- [x] No aluminum foil
- [x] No sticky notes (e.g., certain Post-It® products)

Decontamination:

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

Food and Drink:

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

Notes:

Developing wells with peristaltic pump + disposable hdpe Tubing

Field Team Leader Name (Print): Scott Neil - Golder

Field Team Leader Signature: Scott Neil

Date/Time: 1/20/2022 / 1045

MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-9S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	JAEE - Robbie Crofoot	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~70F	DRILL RIG	Track-Mounted GeoProbe 6600	STARTED	3/7/2022 14:58:00 PM (TIME/DATE)	COMPLETED	3/7/2022 15:55:00 PM (TIME/DATE)

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH

0.0 Ground Surface

1.0 Dark brown FS and organics, Moist, no odor

Light tan & gray FS, Moist, no odor

2.0 Light gray FS, Moist to wet, no odor

water table at ~2.5 ft

3.0

4.0

5.0

6.0

7.0

8.0

9.0

10.0

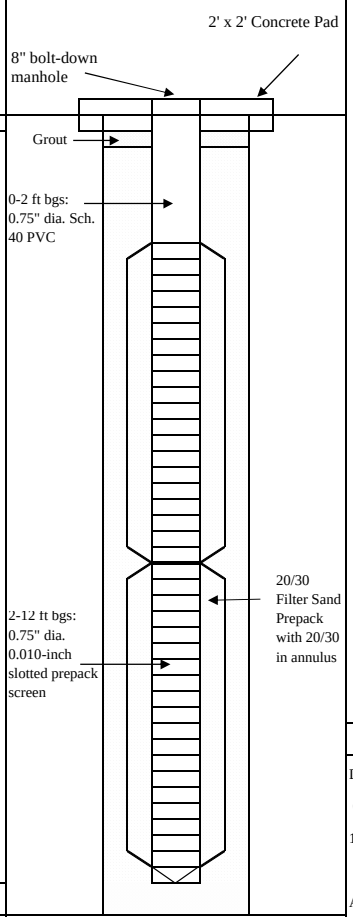
11.0

12.0 Boring Terminated at 12.0 feet

13.0

14.0

WELL SKETCH



INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 3/7/22 1555 to 1640. ~.8

0.1 gal- >1000 NTUs. Dark Brown.

18gal total developed - 140 NTUs, slight brown tint

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

MONITORING WELL INSTALLATION LOG

JOB NO.	GL21470834A	PROJECT	Fire Academy of the South - FSCJ; FacID: ERIC_17235	WELL NO.	DEPMW-10S	SHEET 1 OF	1
GAI INSP	Scott Neal	DRILLING METHOD	Direct Push	GROUND ELEV	--	WATER ELEV.	2.5'
WEATHER	Clear	DRILLING COMPANY	JAEE - Robbie Crofoot	COLLAR ELEV	--	DATE/TIME	--
TEMP.	~82F	DRILL RIG	Track-Mounted GeoProbe 6600	STARTED	3/7/2022 16:20:00 PM (TIME/DATE)	COMPLETED	3/7/2022 16:40:00 PM (TIME/DATE)

MATERIALS INVENTORY

WELL CASING	0.75 in. dia. 2 l.f.	WELL SCREEN	0.75 in. dia. 10 l.f.	FINE SAND SEAL	NA
CASING TYPE	PVC	SCREEN TYPE	PVC	INSTALLATION METHOD	Gravity
JOINT TYPE	Threaded	SLOT SIZE	0.01	FILTER PACK QTY.	Prepack screen w/ ~20 lbs 20/30 in annulus to surface
GROUT QUANTITY	~15 lb, dry	CENTRALIZERS	None	FILTER PACK TYPE	20/30 Fine Sand
GROUT TYPE	Portland	DRILLING MUD TYPE	None	INSTALLATION METHOD	Gravity

ELEV./ DEPTH

0.0 Ground Surface

Dark brown silty sand, dry, no odor

1.0

Dark brown & dark gray FS, Moist, no odor

2.0

3.0 Dark gray FS, Moist, no odor

4.0

5.0

6.0

7.0

8.0

9.0

10.0

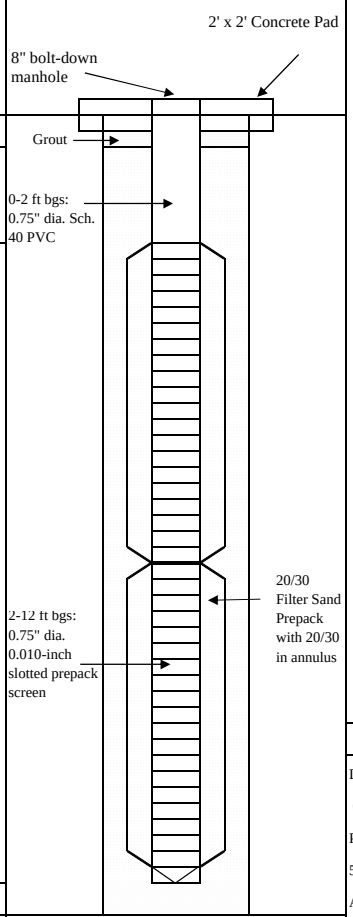
11.0

12.0 Boring Terminated at 12.0 feet

13.0

14.0

WELL SKETCH



INSTALLATION NOTES

0.75-inch schedule 40 PVC well. 0.10-inch slotted screen.

2.5-inch borehole via DPT drill rig

WELL DEVELOPMENT NOTES

Developed 3/8/22 0810 to 1300. 0.5 gmp. 7.1 ft dtw static

0.1 gal- >1000 NTUs. Dark Brown.

Pumping dry so intermittently developed throughout day.

5 gal total. 140 NTUs, Dark Brown tint.

All Development water was drummed.

Developed with peristaltic pump and 3/8-inch hdpe tubing

WSP/ Golder Associates

SUBJECT Fire Academy of the South - FSCJ, ERIC_17235		
Job No.	Made by Scott Neal	Date 3/4/2022
~~Ref:~~ 75°, clear, calm	~~Checked~~ Golder/WSP	Sheet 1 of 1
	~~Reviewed~~	

GeoTek Services - Bud Connor, Golder/WSP - Scott Neal

0730 - Leave Golder office in personal truck
0810 - On Site. Bud Connor (GeoTek) on site. Check in with Fire Academy Personnel
0820 - Review HASP + S.O.W.
0835 - Go to skid pad in the northern portion of the site. GeoTek uses EM Wand + GPR Sled to scan subsurface for utilities in area of proposed shallow monitoring well. Flag/Paint location
0900 - Scan area in southern portion of driver training area (NW portion of the site) for utilities near proposed shallow well. Flag/Paint location
0930 - Scan near proposed vertical Profile location in AOC-1 near SB-8. Flag/Paint location
0950 - Scan near vertical profile location in AOC-4 (DEPMW-45). Flag/Paint cleared location
1005 - Scan near vertical profile location in AOC-3 (DEPMW-35, VP-3). Flag/paint cleared location.
1020 - Scan alternative AOC-1 location near DEPMW-85. Flag/Paint location
1045 - Scan AOC-2 vertical profile location near ~~SB-~~ DEPSB-59/VP-1 location. Flag/Paint location.
1115 - All areas scanned cleared. Bud reviews GPR survey
1200 - Bud off site. Carpenter
1205 - Talk to Jason ~~Campbell~~ (Fire Academy) + discuss schedule + logistics of upcoming work. Show work areas
1245 - off site
1300 - lunch
1400 - golder office. off job

SW 3/4/22

20-24, 36-40, 48-52

WSP/ Golder Associates

SUBJECT Fire Academy of the South - FSCJ ; ERIC - 17235		
Job No.	Made by Scott Neal	Date 3/7/2022
Ref: 88°, Partly Cloudy, calm	~~Checked~~ Golder/WSP ~~Reviewed~~	Sheet 1 of

Golder/WSP - Scott Neal
JAEE Environmental - Robert Crofoot, Demarcus
FDEP-SIS - Bobby Williams

0730 - Pick up/scan for Enterprise Rental F-150
0800 - Pack truck
0830 - Leave Golder/WSP Jacksonville office
0900 - On site. Check in with Jason Carpenter (Fire Academy)
0915 - JAEE (Robby + Demarcus) on site. with track-mounted Geoprobe 6610 DT drill rig, flat bed trailer, and support truck
0925 - Review HASP + PFAS SOPs.
0935 - Set up decon pit + decon dpt tooling
1105 - Collect Equipment blank sample EQB-Screenpoint-2 from decontaminated well screenpoint
1110 - Bobby (FDEP) on site
1115 - Decon complete. Move to AOC-3, VP-3 vertical profile location. Hand clear utilities to 5 ft bgs
1130 - Push rods to 24' bgs.
1205 - Begin pumping water from decontaminated stainless steel screenpoint screened 20-24 ft bgs
1220 - Collect water sample VP-3-20-24 for PFAS. >1000 NTUs, 2 gal purged. 3rd bottle collected for turbidity
1230 - Push to 36-40 ft bgs with decontaminated sampling point
1245 - Collect VP-3-36-40 for PFAS. 3 gal pumped. >1000 ntus. 3rd bottle collected for high turbidity
1300 - Push to 52 ft bgs. Tube with hdpe tubing (All samples use hdpe + new silicon masterflex with peristaltic pump). Clean screenpoint 48-52 ft bgs interval. Begin pumping
1325 - Collect VP-3-48-52 for PFAS. >1000 ntus. ~~2.5~~ 3.0 (SW) gal pumped. 3rd bottle collected.
1330 - Remove tooling. Move to staging area to decon DPT tooling

(SW) * 1400 Demarcus off site for day

1420 - Move rig south of skid pad to DEPMW-9S location.
1445 - Collect Equipment blank sample EQB-HA-1 from hand Auger for PFAS analysis
1450 - Collect DEP SB-114-0.5 from 0-0.5 ft bgs for PFAS
1452 " DEPSB-114-2.0 from 0.5-2.0 ft bgs for PFAS
1455 - " DEPSB-114-2.5 from 2.0-2.5 ft bgs for PFAS

DEPSB-114	(DEPMW-9S location)
0-0.5'	Dark brown fine sand and organics, Moist, N.O.
0.5-2.0'	Light tan + gray fine sand, Moist, No odor
2.0-2.5'	Light Gray fine sand, Moist → wet, No odor, water table ~2.5' bgs

1458 - Push 2.25" diameter rods to 12' bgs + construct shallow well. 0.75" riser * prepack screen. Screen interval 2-12 ft bgs. Annulus filled with 20/30 sand to 0.5 ft bgs, grout to surface
1530 - Construct 2'x2' pad w/ 8" bolt-down manhole
1555 - Bobby stays at DEPMW-9S for well development. Move rig to DEPMW-10S south of driver training course.

(SW)

Golder Associates

SUBJECT Fire Academy of the South - FSCJ; ERIC_17235		
Job No.	Made by Scott Neal - WSP/ Golder	Date 3/7/2022
Ref. 87°, cloudy, calm	Checked ~~Golder~~ Reviewed ~~FDEP - Bobby W.~~ JAEE - Robby C.	Sheet 2 of 2

1615 - Hand Auger to 5 ft bgs to clear utilities at DEPMW-10S and collect soil samples
-DEPSB-115 (DEPMW-10S location)
0-0.5 ft bgs Dark Brown silty sand, dry, no odor
0.5-2.0 ft bgs Dark brown & dark gray fine sand, no odor, Moist
2.0-4.0 ft bgs Dark gray fine sand, moist, no odor
A at 6.0' bgs
1620 - Collect DEPSB-115-0.5 for PFAS, 0'-0.5' bgs
1622 - " DEPSB-115-2.0 " " , 0.5'-2.0' bgs
1625 - " DEPSB-115-4.0 " " , 2.0'-4.0' bgs
1630 - Construct DEPMW-10S (same construction as DEPMW-9S)
1635 - Collect Field Reagent Blank sample FRB-DEPMW-10S for PFAS
1650 - JAEE Packed & off site. Pad & development for 3/8
1700 - DEPMW-9S developed. ~18 gal & <140 mtns
1705 - Bobby & Golder off site
1740 - Office - off Job

(SW)

Golder Associates

SUBJECT Fire Academy of the South - FSCJ ; ERIC - 17235		
Job No.	Made by Scott Neal	Date 3/8/2022
~~Ref.~~ 75°, cloudy, calm	Checked Golder/WSP	Sheet 1 of 1
	Reviewed	

0710 - Golder office. Calibrate YSI meter (See Cal Log) & Pack truck
0740 - Leave Golder/WSP office in Enterprise Rental F-150
0805 - On site. Bobby (FDEP) on site. Develop DEPMW-10S. Slow purge with dark brown, stained water
0830 - JAEE on site. Set up rig on VP-4 in AOC-4
0850 - Collect surface water sample SW-12 and Duplicate Sample DUP-SW-12 from pond in Northwest corner of site north of driver training course. Suspended detritus and duck weed cover on pond. See Sample form
0900 - Collect sediment sample SED-15 from SW-12 location
0905 - Move to AOC-4 and review HASP & PFAS SOPs
0915 - Push decontaminated rods to 24 ft bgs. HDPE tubing into decontaminated stainless steel screen 20-24 ft bgs
0930 - Begin pumping
0945 - Collect water sample VP-4-20-24 for PFAS @ ~~1000~~ 500 ntus. 3rd bottle collected
1000 - Begin pumping in 36-40' bgs interval
1015 - Collect VP-4-36-40 water sample. 3 bottles. ~~>1000 ntus~~ @ 990, ~3 gal purged, 990 ntus
1033 - Begin pumping at 48'-52' bgs interval
1048 - Collect VP-4-48-52 with MS/MSD (6 bottles total), ~3 gal, >1000 ntus
1100 - To Staging area to decon tooling
1135 - Move to AOC-1 and push to 24' bgs with decontaminated rods. Hand clear to 5' bgs
1150 - Begin pumping through hdpe tubing, peristaltic pump, & decontaminated stainless steel screenpoint in 20'-24' bgs interval. JAEE off site for lunch
1220 - Collect VP-1-20-24 for PFAS. 790 ntus, 4 gal Purged, 3 bottles
1230 - Collect Field Reagent Blank sample FRB-VP-1 next to rig for PFAS
1245 - JAEE on site. Push decontaminate screen to 36-40 ft bgs interval
1315 - Collect VP-1-36-40 for PFAS. 620 ntus, 2.5 gal purged
1318 - Push clean screenpoint to 48-52 ft bgs interval
1350 @ ~~1345~~ Collect VP-1-48-52 for PFAS. gal purged. ntus
1355 - Pack rig. Move to staging Area & decon tooling with Steam cleaner, brushes, etc
1435 - Move to VP-2 location in AOC-2.
1440 - Hand clear utilities to 5-ft bgs. Push decontaminated stainless steel screenpoint to 24 ft bgs
1450 - Begin pumping
1508 - Collect VP-2-20-24 and DUP-2-20-24 for PFAS. @ ~~2~~ 2.5 gal. pumped. 920 NTUs
1535 - Collect VP-2-36-40 for PFAS, 2.5 gal pumped. >1000 NTUs
1618 - Collect VP-2-48-52 for PFAS 2.5 gal, >1000 ntus
1630 - Relenquish sample cooler to Bobby Williams to deliver to FDEP Lab, Tallahassee, FL
1640 - Bobby off site. Pack staging area. drum all decon/development water - 1 55-gal drum IDW water
1710 - 2'x2' concrete pad & 8" bolt-down manhole at DEPMW-10S
1740 - Patch VP-4 hole in pavement.
1750 - All cleaned, secured, & packed. All off site
1845 - Golder/WSP office. Off Job. Equip unpacked. Post Cal YSI. - See log

@ 3/8/22

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Fire Academy of the South - FSCJ; ERIC-17235	SITE LOCATION: Fire Fighter Memorial Dr., Jacksonville, FL
WELL NO: NA, Surface Water Sample	SAMPLE ID: SW-12
	DATE: 3/8/2022

PURGING DATA

WELL DIAMETER (inches): NA	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: NA feet to NA feet	STATIC DEPTH TO WATER (feet): ~1 ft deep	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) NA = (feet – feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) = [0 gallons + (0.0014 gallons/foot X 10 feet) + ~~0.8~~ 0.15] 3 gallons = ~~2.6~~ gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
NA	NA	0845	0849 (W) 0.04	(W) 0.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0849	0.2	0.2	0.05	NA	5.28	19.8	140.8	2.0 / 22	16.1	-76.1	clear / none
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Scott Neal	Scott Neal	0850	0854

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ___ µm
~6" into water	HDPE		

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N (replaced)) DUPLICATE: (Y) N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SW-12	2	HDPE	125 mL	None	NA	*	PFAS	APP	~180
DUP-SW-12	2	"	"	"	"	*	PFAS	APP	~180
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
Some suspended organics in sample. DUP-SW-12 (Duplicate Sample) also collected

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

GOLDER

Field Instrument pH Calibration Records

INSTRUMENT (MAKE/MODEL NO.) YSI ProPlus **INSTRUMENT NO.** 3

STANDARD INFORMATION

Project Number: GL21470834A **Project Name:** Fire Academy of the South, ERIC-17235

Standard Vendor: GEOTECH

Prepared Date: NOV 2020 **Where Prepared:** NA

Purchase Date: SEE BELOW **Expiration Date:** Varies **Grade:** N/A **Units:** Standard Units

Standard 4.00 @25 °C **Lot #** 1GF009 **Exp Date** JUN 2023 **Purch Date** SEP 2021

Standard 7.00 @25 °C **Lot #** 1GF003 **Exp Date** JUN 2023 **Purch Date** SEP 2021

Standard 10.0 @25 °C **Lot #** 1GF458 **Exp Date** JUN 2023 **Purch Date** SEP 2021

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/8/22	0717	21.8	4.00	4.13	< 0.2	P	No	(Init) Cont Final	SN
↓	0719	21.8	7.01	7.12	< 0.2	P	No	(Init) Cont Final	↓
↓	0720	21.9	10.0	10.16	< 0.2	P	No	(Init) Cont Final	↓
↓	1825	21.5	4.0	4.14	< 0.2	P	N	Init Cont (Final)	SN
↓	1826	21.5	7.0	7.14	< 0.2	P	N	Init Cont (Final)	SN
↓	1828	21.5	10.0	10.09	< 0.2	P	N	Init Cont (Final)	SN
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.2 pH units of the value of appropriate calibration standard.

GOLDER

Field Instrument Conductivity Calibration Records

INSTRUMENT (MAKE/MODEL NO.) YSI ProPlus **INSTRUMENT NO.** 3

STANDARD INFORMATION

Project Number: GL20470834 **Project Name:** FA07S, ERIC_17235

Standard Vendor: Geotech

Prepared Date: NA **Where Prepared:** NA

Grade: N/A **Units:** umhos/uS-cm

Standard 200 @25 °C Lot # 1GE217 Exp Date May 2022 Pur Date Apr 2021

Standard 1000@25 °C Lot # 1GF443 Exp Date Jun 2022 Pur Date Apr 2021

Standard 2000@25 °C Lot # 1GE871 Exp Date Feb 2022 Pur Date Jun 2021

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C°	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/8/22	0724	21.4	200	208.1	< 5%	P	No	(Init) Cont Final	SN
|	0727	21.4	1,000	1020	< 5%	P	|	(Init) Cont Final	SN
|	0728	21.3	2,000	2015	< 5%	P	|	(Init) Cont Final	SN
3/8/22	1830	21.3	200	207.9	< 5%	PASS	No	Init Cont (Final)	SN
|	1833	21.5	1,000	1022	< 5%	|	|	Init Cont (Final)	SN
|	1834	21.5	2,000	2014	< 5%	|	|	Init Cont (Final)	SN
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 5% of the appropriate calibration standard.

Note: Standards and instrument response readings are corrected to 25°C.

GOLDER

Field Instrument Dissolved Oxygen & Oxidation-Reduction Potential Calibration Records

INSTRUMENT (MAKE/MODEL NO.) YSI ProPlus **INSTRUMENT NO.** 3

STANDARD INFORMATION

Project Number: GL21470834A **Project Name:** Fire Academy of the South, ERIC_17235

Standard Vendor: GEOTECH

Prepared Date: NA **Where Prepared:** NA

Grade: N/A **DO Units:** mg/L **OR Units:** mV

ORP Standard: 220@25 °C Lot # 1GL527 Exp: Date SEP 2022 Pur. Date: APR 2022

DO Standard Air Calibration Chamber in Air (Table FS 2200-2)

Standard

Standard

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	CHART 100% VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/8/22	0712	20.0	9.092	9.21	<0.3	P	N	(Init) Cont Final	SW
1	1820	21.0	8.915	9.04	<0.3	P	N	Init Cont (Final)	SN
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
ORP									
3/8/22	0714	21.9	223	220.1	<10 mV	P	N	(Init) Cont Final	SW
1	1821	22.1	223	219.5	<10 mV	P	N	Init Cont (Final)	SN
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.3 mg/L of the value of appropriate calibration standard. Need to record DO readings in mg/L and use Table FS 2200-2 "Dissolved Oxygen Saturation". ORP calibration reading must be within +/- 10 mV from the theoretical redox standard value at that temperature.

AOC 1 VP
2 VP 2
3 VP-3
4 VP-4

GOLDER

Equipment Services Program
Jacksonville, FL

Calibration Standards Data

Used during:
02/08/2022

Parameter	Temperature	pH			Conductivity			ORP	Turbidity			
Value	ERTCO Thermometer	4.01	7	10	200	1000	2000	220	<0.1/10	20	100	800
Measurement	Celcius	pH	pH	pH	uS/cm	uS/cm	uS/cm	mV	NTU	NTU	NTU	NTU
Volume	Liters	20	20	20	20	20	20	1 of 2	N/A	N/A	N/A	N/A
Unit of Measure	Degrees C	m/L	m/L	m/L	m/L	m/L	m/L	m/V	m/L	m/L	m/L	m/L
Lot #	2401	1GF009	1GF003	1GF458	1GE217	1GF443	1GE871	1GL527	A1050	A1042	A1049	A1050
Purchase Date	May '04	Sep-21	Sep-21	Sep-21	Apr-21	Apr-21	Jun-21	Mar-22	Apr-21	Apr-21	Apr-21	Apr-21
Preparation Date	Oct-11	Oct-21	Oct-21	Oct-21	May-21	Jun-21	Jun-21	Mar-22	Apr-21	Apr-21	Apr-21	Apr-21
Expiration Date	Oct-12	Jun-23	Jun-23	Jun-23	May-22	Jun-22	May-22	Sep-22	May-22	May-22	May-22	May-22
Vendor Name	hf scientific	Geotech	Geotech	Geotech	Geotech	Geotech	Geotech	Geotech	HACH	HACH	HACH	HACH
Loc. of Preparation	hf scientific	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER	GOLDER
Acceptance Criteria	+/- 0.2°C	+/- 0.2 pH units			+/- 5%			+/- 10mV	+/- 10%	+/- 8.0%	+/- 6.5%	+/- 5%

"Loc. of Preparation" indicates the transfer of solutions from manufacturers' containers to GAI containers for field use, except where otherwise noted.
No solutions are mixed or created at Golder.
"Preparation Date" is typically 1 - 3 days prior to scheduled activity, except in the case of thermometer calibration check.
ORP solution will yield more calibrations if kept clean and it requires less than 50 mL to perform a calibration check.
NIST Thermometer. Serial # 2401, Product # 1005, Inscription: ERTCO, Scale range: -1 to 101 C, Total Immersion, Scale division: 0.1

GOLDER

Field Instrument Turbidity Calibration Records

INSTRUMENT (MAKE/MODEL NO.) *HACH* 2100Q **INSTRUMENT NO.** 2

Project Number: 9L21470834A **Project Name:** Fire Academy of the South, ERIC-17235

Standard Vendor: *HACH*

Prepared Date: *NA* **Where Prepared:** NA

Purchase Date: *April 2021* **Expiration Date:** *May 2022* **Lot Number:** *SEE BELOW*

Units:Nephelometric Turbidity Unit

Standard 10 Nephelometric TurbidityUnit Exp Date May 2022 LOT# A1050

Standard 20 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1042

Standard 100 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1049

Standard 800 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1050

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/8/22	0730	-	5.45	5.58	< 10 %	P	N	(Init) Cont Final	SN
|	0730	-	60.2	61.0	<6.5 %	P	N	(Init) Cont Final	SN
|	0731	-	620	625	< 5 %	P	N	(Init) Cont Final	SN
3/8/22	1840	-	5.45	5.60	<10 %	P	N	Init Cont (Final)	SN
|	1841	-	60.2	61.9	<6.5 %	P	N	Init Cont (Final)	|
|	1841	-	620	625	< 5 %	P	N	Init Cont (Final)	|
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	

Calibration values for turbidity needs to be within 10% of the standard for values between 0.1-10 NTU; 8% for values between 11-40 NTU; 6.5% for values between 41-100 NTU and 5% for values >100 NTU.

with Temperature Variations and NJDEP Acceptance Criteria [illegible]

Acceptance Criteria: +/- 5%

'F	°C	µS	µS
32	0	311.57	1246.26
	1	317.52	1270.07
	2	323.58	1294.33
	3	329.76	1319.05
	4	336.06	1344.24
41	5	342.48	1369.92
	6	349.02	1396.08
	7	355.69	1422.75
	8	362.48	1449.92
	9	369.40	1477.61
50	10	376.46	1505.84
	11	383.65	1534.60
	12	390.98	1563.91
	13	398.45	1593.78
	14	406.06	1624.22
59	15	413.81	1655.24
	16	421.71	1686.86
	17	429.77	1719.08
	18	437.98	1751.91
	19	446.34	1785.37
68	20	454.87	1819.47
	21	463.56	1854.23
	22	472.41	1889.64
	23	481.43	1925.73
	24	490.63	1962.52
77	25	500.00	2000.00
	26	509.55	2038.20
	27	519.28	2077.13
	28	529.20	2116.80
	29	539.31	2157.23
86	30	549.61	2198.44
	31	560.11	2240.43
	32	570.80	2283.22
	33	581.71	2326.83
	34	592.82	2371.27
95	35	604.14	2416.56
	36	615.68	2462.72
	37	627.44	2509.76
	38	639.42	2557.69
	39	651.64	2606.54
04	40	664.08	2656.33
	41	676.77	2707.07
	42	689.69	2758.77
	43	702.87	2811.46
	44	716.29	2865.16
13	45	729.97	2919.89

Acceptance Criteria: +/- 0.2 pH units

°C	pH 4	pH 7	pH 10
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10	4.00	7.06	10.15
11			
12			
13			
14			
15	4.00	7.04	10.10
16			
17			
18			
19			
20	4.00	7.02	10.05
21			
22			
23			
24			
25	4.01	7.00	10.00
26			
27			
28			
29			
30	4.01	6.99	9.96
31			
32			
33			
34			
35	4.02	6.98	9.92
36			
37			
38			
39			
40	4.03	6.97	9.87
41			
42			
43			
44			
45			

No Acceptance Criteria

°C	mV
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	245
11	
12	12.5 = 240.5
13	
14	
15	236
16	
17	17.5 = 232
18	
19	
20	228
21	
22	22.5 = 224
23	
24	
25	220
26	
27	27.2 = 216
28	
29	
30	212
31	
32	32.5 = 208
33	
34	
35	204
36	
37	37.5 = 199.5
38	
39	
40	195
41	
42	42.5 = 191
43	
44	
45	187

with Temperature Variations and FDEP Acceptance Criteria

Dissolved Oxygen Saturation Values

Acceptance Criteria +/-0.3 mg/L.

°C	D.O. SAT.	mg/L 20%	°C	D.O. SAT.	mg/L 20%	°C	D.O. SAT.	mg/L 20%	°C	D.O. SAT.	mg/L 20%
15	10.084	2.017	19	9.276	1.855	23	8.578	1.716	27	7.968	1.594
15.1	10.062	2.012	19.1	9.258	1.852	23.1	8.562	1.712	27.1	7.954	1.591
15.2	10.04	2.008	19.2	9.239	1.848	23.2	8.546	1.709	27.2	7.94	1.588
15.3	10.019	2.004	19.3	9.22	1.844	23.3	8.53	1.706	27.3	7.926	1.585
15.4	9.997	1.999	19.4	9.202	1.84	23.4	8.514	1.703	27.4	7.912	1.582
15.5	9.976	1.995	19.5	9.184	1.837	23.5	8.498	1.7	27.5	7.898	1.58
15.6	9.955	1.991	19.6	9.165	1.833	23.6	8.482	1.696	27.6	7.884	1.577
15.7	9.934	1.987	19.7	9.147	1.829	23.7	8.466	1.693	27.7	7.87	1.574
15.8	9.912	1.982	19.8	9.129	1.826	23.8	8.45	1.69	27.8	7.856	1.571
15.9	9.891	1.978	19.9	9.111	1.822	23.9	8.434	1.687	27.9	7.842	1.568
16	9.87	1.974	20	9.092	1.818	24	8.418	1.684	28	7.828	1.566
16.1	9.849	1.97	20.1	9.074	1.815	24.1	8.403	1.681	28.1	7.814	1.563
16.2	9.829	1.966	20.2	9.056	1.811	24.2	8.387	1.677	28.2	7.8	1.56
16.3	9.808	1.962	20.3	9.039	1.808	24.3	8.371	1.674	28.3	7.786	1.557
16.4	9.787	1.957	20.4	9.021	1.804	24.4	8.356	1.671	28.4	7.773	1.555
16.5	9.767	1.953	20.5	9.003	1.801	24.5	8.341	1.668	28.5	7.759	1.552
16.6	9.746	1.949	20.6	8.985	1.797	24.6	8.325	1.665	28.6	7.745	1.549
16.7	9.726	1.945	20.7	8.968	1.794	24.7	8.309	1.662	28.7	7.732	1.546
16.8	9.705	1.941	20.8	8.95	1.79	24.8	8.294	1.659	28.8	7.718	1.544
16.9	9.685	1.937	20.9	8.932	1.786	24.9	8.279	1.656	28.9	7.705	1.541
17	9.665	1.933	21	8.915	1.783	25	8.263	1.653	29	7.691	1.538
17.1	9.645	1.929	21.1	8.898	1.78	25.1	8.248	1.65	29.1	7.678	1.536
17.2	9.625	1.925	21.2	8.88	1.776	25.2	8.233	1.647	29.2	7.664	1.533
17.3	9.605	1.921	21.3	8.863	1.773	25.3	8.218	1.644	29.3	7.651	1.53
17.4	9.585	1.917	21.4	8.846	1.769	25.4	8.203	1.641	29.4	7.638	1.528
17.5	9.565	1.913	21.5	8.829	1.766	25.5	8.188	1.638	29.5	7.625	1.525
17.6	9.546	1.909	21.6	8.812	1.762	25.6	8.173	1.635	29.6	7.611	1.522
17.7	9.526	1.905	21.7	8.794	1.759	25.7	8.158	1.632	29.7	7.598	1.52
17.8	9.506	1.901	21.8	8.777	1.755	25.8	8.143	1.629	29.8	7.585	1.517
17.9	9.486	1.897	21.9	8.761	1.752	25.9	8.128	1.626	29.9	7.572	1.514
18	9.467	1.893	22	8.744	1.749	26	8.114	1.623	30	7.559	1.512
18.1	9.448	1.89	22.1	8.727	1.745	26.1	8.099	1.62	30.1	7.546	1.509
18.2	9.428	1.886	22.2	8.71	1.742	26.2	8.084	1.617	30.2	7.533	1.507
18.3	9.409	1.882	22.3	8.693	1.739	26.3	8.07	1.614	30.3	7.52	1.504
18.4	9.39	1.878	22.4	8.677	1.735	26.4	8.055	1.611	30.4	7.507	1.501
18.5	9.371	1.874	22.5	8.66	1.732	26.5	8.04	1.608	30.5	7.494	1.499
18.6	9.352	1.87	22.6	8.644	1.729	26.6	8.026	1.605	30.6	7.481	1.496
18.7	9.333	1.867	22.7	8.627	1.725	26.7	8.012	1.602	30.7	7.468	1.494
18.8	9.314	1.863	22.8	8.611	1.722	26.8	7.997	1.599	30.8	7.456	1.491
18.9	9.295	1.859	22.9	8.595	1.719	26.9	7.983	1.597	30.9	7.443	1.489

...lated using the formula in Standard Methods for the Examination of Water and Wastewater, Page 4-101, 18th Edition, 199?

...FIELD FORMS and DATA\DO saturation chart from FL DEP SOPs.xls

Parameter Calibration Values

Dissolved Oxygen Saturation Values with Temperature Variations

Supplemental Values from 0°C to 15°C

°C	D.O. SAT.	mg/L
0.1	13.3171	2.663
0.2	13.2954	2.659
0.3	13.2737	2.655
0.4	13.252	2.650
0.5	13.2303	2.646
0.6	13.2086	2.642
0.7	13.1869	2.637
0.8	13.1652	2.633
0.9	13.1435	2.629
1	13.1218	2.624
1.1	13.1001	2.620
1.2	13.0784	2.616
1.3	13.0567	2.611
1.4	13.035	2.607
1.5	13.0133	2.603
1.6	12.9916	2.598
1.7	12.9699	2.594
1.8	12.9482	2.590
1.9	12.9265	2.585
2	12.9048	2.581
2.1	12.8831	2.577
2.2	12.8614	2.572
2.3	12.8397	2.568
2.4	12.818	2.564
2.5	12.7963	2.559
2.6	12.7746	2.555
2.7	12.7529	2.551
2.8	12.7312	2.546
2.9	12.7095	2.542
3	12.6878	2.538
3.1	12.6661	2.533
3.2	12.6444	2.529
3.3	12.6227	2.525
3.4	12.601	2.520
3.5	12.5793	2.516
3.6	12.5576	2.512
3.7	12.5359	2.507
3.8	12.5142	2.503
3.9	12.4925	2.499
4	12.4708	2.494
4.1	12.4491	2.490
4.2	12.4274	2.485
4.3	12.4057	2.481
4.4	12.384	2.477
4.5	12.3623	2.472
4.6	12.3406	2.468
4.7	12.3189	2.464
4.8	12.2972	2.459
4.9	12.2755	2.455
5	12.2538	2.451

°C	D.O. SAT.	mg/L
5.1	12.2321	2.446
5.2	12.2104	2.442
5.3	12.1887	2.438
5.4	12.167	2.433
5.5	12.1453	2.429
5.6	12.1236	2.425
5.7	12.1019	2.420
5.8	12.0802	2.416
5.9	12.0585	2.411
6	12.0368	2.407
6.1	12.0151	2.403
6.2	11.9934	2.399
6.3	11.9717	2.394
6.4	11.95	2.390
6.5	11.9283	2.386
6.6	11.9066	2.381
6.7	11.8849	2.377
6.8	11.8632	2.373
6.9	11.8415	2.368
7	11.8198	2.364
7.1	11.7981	2.360
7.2	11.7764	2.355
7.3	11.7547	2.351
7.4	11.733	2.347
7.5	11.7113	2.342
7.6	11.6896	2.338
7.7	11.6679	2.334
7.8	11.6462	2.329
7.9	11.6245	2.325
8	11.6028	2.321
8.1	11.5811	2.316
8.2	11.5594	2.312
8.3	11.5377	2.308
8.4	11.516	2.303
8.5	11.4943	2.299
8.6	11.4726	2.295
8.7	11.4509	2.290
8.8	11.4292	2.286
8.9	11.4075	2.282
9	11.3858	2.277
9.1	11.3641	2.273
9.2	11.3424	2.268
9.3	11.3207	2.264
9.4	11.299	2.260
9.5	11.2773	2.255
9.6	11.2556	2.251
9.7	11.2339	2.247
9.8	11.2123	2.242
9.9	11.1905	2.238
10	11.1688	2.234

°C	D.O. SAT.	mg/L
10.1	11.1471	2.229
10.2	11.1254	2.225
10.3	11.1037	2.221
10.4	11.082	2.216
10.5	11.0603	2.212
10.6	11.0386	2.208
10.7	11.0169	2.203
10.8	10.9952	2.199
10.9	10.9735	2.195
11	10.9518	2.190
11.1	10.9301	2.186
11.2	10.9084	2.182
11.3	10.8867	2.177
11.4	10.865	2.173
11.5	10.8433	2.169
11.6	10.8216	2.164
11.7	10.7999	2.160
11.8	10.7782	2.156
11.9	10.7565	2.151
12	10.7348	2.147
12.1	10.7131	2.143
12.2	10.6914	2.138
12.3	10.6697	2.134
12.4	10.648	2.130
12.5	10.6263	2.125
12.6	10.6046	2.121
12.7	10.5829	2.117
12.8	10.5612	2.112
12.9	10.5395	2.108
13	10.5178	2.104
13.1	10.4961	2.099
13.2	10.4744	2.095
13.3	10.4527	2.091
13.4	10.431	2.086
13.5	10.4093	2.082
13.6	10.3876	2.078
13.7	10.3659	2.073
13.8	10.3442	2.069
13.9	10.3225	2.065
14	10.3008	2.060
14.1	10.2791	2.056
14.2	10.2574	2.051
14.3	10.2357	2.047
14.4	10.214	2.043
14.5	10.1923	2.038
14.6	10.1706	2.034
14.7	10.1489	2.030
14.8	10.1272	2.025
14.9	10.1055	2.021
15	10.084	2.017

ORP MEASUREMENTS

REFERENCE TABLE

Temperature °F	Temperature °C	Potential In mV
32	0	237
41	5	232
50	10	230
59	15	227
68	20	223
77	25	220
86	30	216
95	35	213
104	40	209
113	45	205
122	50	201
131	55	197
140	60	193
149	65	189
158	70	185

Created: 10/19/2007(jal)

Conductivity Temperature Chart
Solution 1000µs/cm @ 25C

Temp C	Temp F	µS
5	41.5	682
10	50.0	751
15	59.0	826
16	60.8	842
17	62.6	858
18	64.4	875
19	66.2	892
20	68.0	909
21	69.8	926
22	71.6	944
23	73.4	962
24	75.2	981
25	77.0	1000
26	78.8	1019
27	80.6	1039
28	82.4	1059
29	84.2	1079
30	86.0	1100

Daily PFAS Sampling Checklist

Date: 3/8/2022

Site Name: ERIC_17235; Fire Academy of the South

Weather (*temperature/precipitation*): 75°, cloudy, calm

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:

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

Field Equipment:

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

Decontamination:

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

Food and Drink:

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

Notes:

QA/QC samples collected.

Field Team Leader Name (Print): Scott Neal / golder/wsp

Field Team Leader Signature: Scott Neal

Date/Time: 3/8/2022/0850

Daily PFAS Sampling Checklist

Date: 3/7/2022

Site Name: Fire Academy of the South, ERK-17235

Weather (*temperature/precipitation*): 88°, Partly Cloudy, Calm

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:

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

Field Equipment:

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

Decontamination:

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

Food and Drink:

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

Notes:

Site Orientation & Review of PFAS SOPs with Drillers.

QA/QC samples collected

Field Team Leader Name (Print): Scott Neal / Golder/WSP

Field Team Leader Signature: Scott Neal

Date/Time: 3/7/2022/0925

MONITORING WELL INSTALLATION LOG

JOB NO 21470834A PROJECT Fire Academy of the South -FSCJ; ERIC_17235 WELL NO DEPMW-1D SHEET 1 OF 1

GA INSP Scott Neal - Golder DRILLING METHOD SONIC GROUND ELEV — WATER DEPTH 4.47

WEATHER Cloudy, 5mph DRILLING COMPANY Preferred Drilling Solutions COLLAR ELEV — DATE/TIME 3/17/22 0925

TEMP 65° DRILL RIG TerraSonic 150 Compact Crawler DRILLER Tim Moyer STARTED 1020 (TIME) 3/15/2022 (DATE) COMPLETED 1215 (TIME) 3/15/2022 (DATE)

MATERIALS INVENTORY

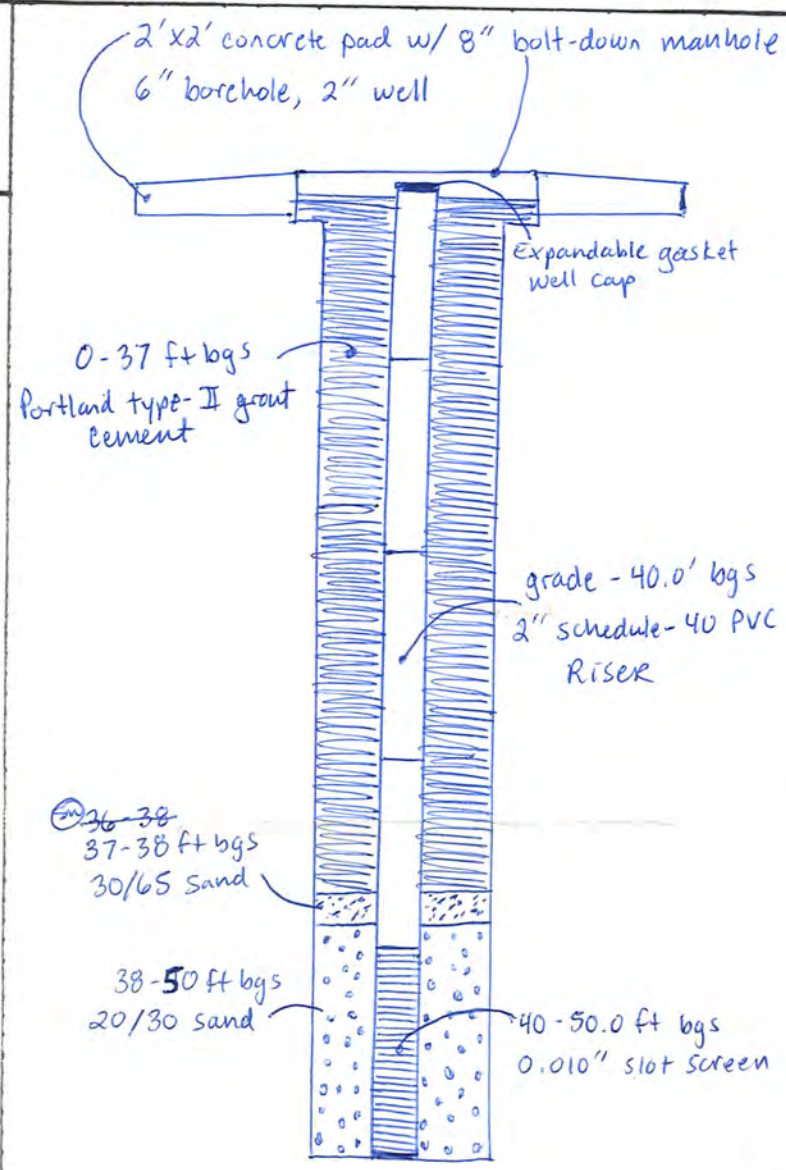
WELL CASING 2 in. dia. 40.0 l.f
CASING TYPE Schedule-40 PVC
JOINT TYPE Threaded
GROUT QUANTITY ~210 lbs dry / 110 gal wet
GROUT TYPE Portland Type-II cement w/ ~20 lbs bentonite powder via decontaminated tremmie hose

WELL SCREEN 2 in. dia. 10.0 l.f
SCREEN TYPE 2-inch, schedule-40 PVC
SLOT SIZE 0.010"
CENTRALIZERS NA
DRILLING MUD TYPE NA

BENTONITE SEAL NA
INSTALLATION METHOD NA
FILTER PACK QTY ~300 lbs
FILTER PACK TYPE 20/30 silica sand
INSTALLATION METHOD Gravity

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	NA
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	

WELL SKETCH



INSTALLATION NOTES

~200 lbs dry grout + 20 lbs bentonite
~110 gallons wet grout used
*Approximately 375 gallons PFAS free drilling water used

WELL DEVELOPMENT NOTES

ATD BEFORE DEV 4.47
START DEV @ 0930
START DEV 4.13 HTH
55 GAL DEV @ 1020
55 GAL 6.62 HTH
55 GAL WL 9.08
110 GAL WL 8.60
110 GAL 1.90 HTH
110 GAL @ 1120

END DEV @ 1120
110 GAL
1.90 HTH

WELL DEVELOPED USING PERISTALTIC PUMP & HDPE TUBING
AVE FLOW 1 GPM

MONITORING WELL INSTALLATION LOG

JOB NO 21470834A | PROJECT Fire Academy of the South - FSCJ ; ERIC - 17235 | WELL NO DEPMW ~~20~~ 2D (SN) | SHEET 1 OF 1

GA INSP Scott Neal | DRILLING METHOD Sonic | GROUND ELEV — | WATER DEPTH 6.76

WEATHER cloudy, 5 mph | DRILLING COMPANY Preferred Drilling Solutions | COLLAR ELEV Grade | DATE/TIME 3/17/22 1125

TEMP 65° | DRILL RIG TerraSonic 150 Compact Crawler | DRILLER Tim Moyer | STARTED 1450 (TIME) 3/14/22 (DATE) | COMPLETED 0930 (TIME) 3/15/22 (DATE)

MATERIALS INVENTORY

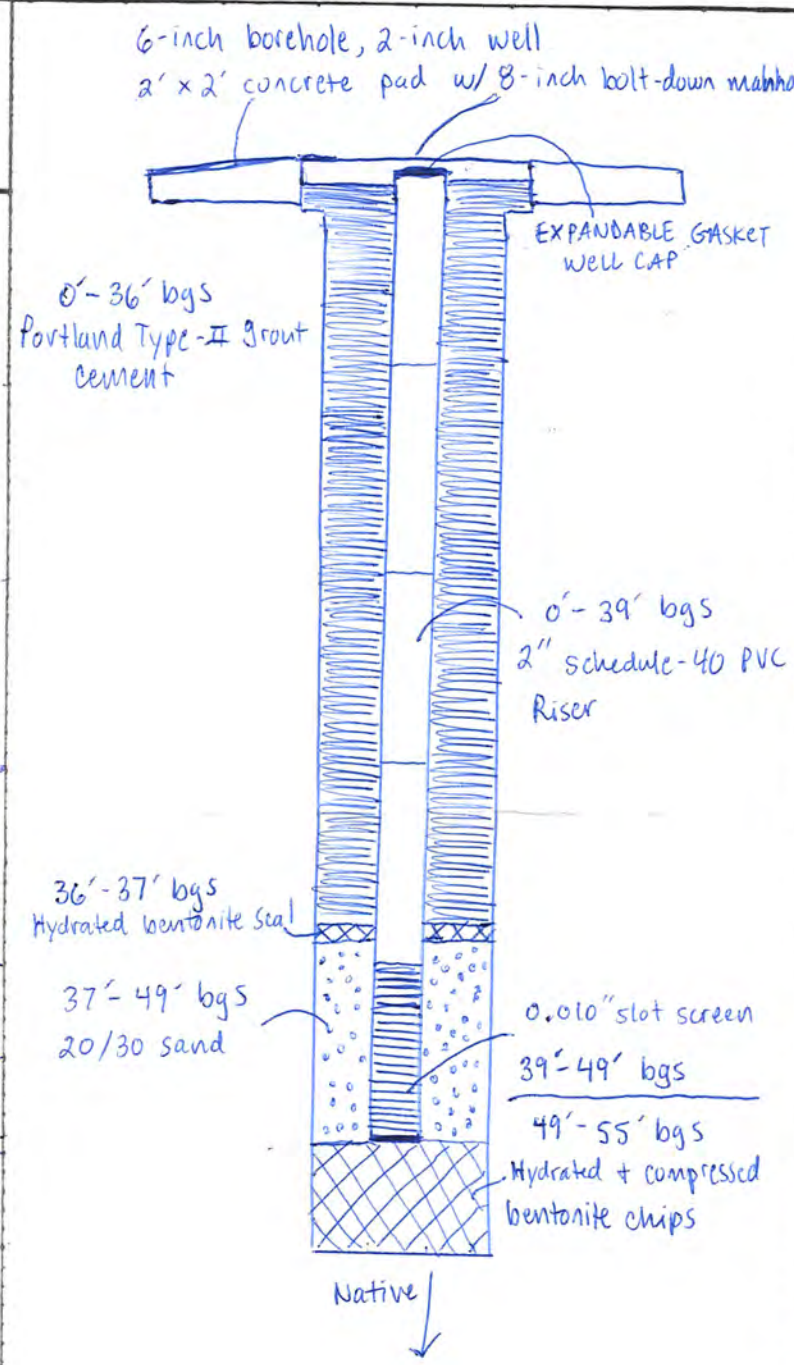
WELL CASING 2 in. dia. 39.0 l.f.
CASING TYPE Schedule-40 PVC
JOINT TYPE Threaded
GROUT QUANTITY ~210 lbs dry / 110 gal wet
GROUT TYPE Portland Type-II cement w/ ~20 lb bentonite powder via tremmie hose (decontaminated)

WELL SCREEN 2 in. dia. 10.0 l.f.
SCREEN TYPE 2-inch, Schedule-40 PVC
SLOT SIZE 0.010-inch
CENTRALIZERS NA
DRILLING MUD TYPE Na

BENTONITE SEAL 36-37 ft bgs
INSTALLATION METHOD Gravity
FILTER PACK QTY ~~~30~~ (SN) ~275 lbs
FILTER PACK TYPE 20/30 silica sand
INSTALLATION METHOD Gravity

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	See Exploratory Boring Log
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	70 ft bgs
55	

WELL SKETCH



INSTALLATION NOTES

~200 lbs dry grout + 20 lbs bentonite
~110 gallons wet grout used
Approximately 250 gallons drilling water used

WELL DEVELOPMENT NOTES

DTW BEFORE DEV 6.76
START DEV @ 1130
START DEV >1000 NTU
55 GAL DEV @ 1330
55 GAL 6.32 NTU
55 GAL WL 8.25
110 GAL WL 8.32
110 GAL 1.08 NTU
110 GAL @ 1500

END DEV @ 1500
110 GAL
1.08 NTU

WELL DEVELOPED USING PERISTALTIC PUMP & HDPE TUBING
AVE FLOW 0.33 GPM

MONITORING WELL INSTALLATION LOG

JOB NO 21470834A | PROJECT Fire Academy of the South - FSCJ; ERIC-17235 | WELL NO DEPMW-3D | SHEET 1 OF 1

GA INSP Scott Neal - Golder | DRILLING METHOD Sonic | GROUND ELEV — | WATER DEPTH 5.96

WEATHER Cloudy, 5mph | DRILLING COMPANY Preferred Drilling Solutions | COLLAR ELEV — | DATE/TIME 3/17/22 1540

TEMP 72° | DRILL RIG TerraSonic 150 Compact Crawler | DRILLER Tim Moyer | STARTED ~~3~~ 5/16 1320 3/15/22 (TIME / DATE) | COMPLETED 1020 3/16/22 (TIME / DATE)

MATERIALS INVENTORY

WELL CASING 2 in. dia. 39.0 l.f.

CASING TYPE Schedule-40 PVC

JOINT TYPE Threaded

GROUT QUANTITY ~210 lbs dry / 110 gal wet

GROUT TYPE Portland Type-II cement w/ ~20 lbs bentonite powder via decontaminated tremmie hose

WELL SCREEN 2 in. dia. 10.0 l.f.

SCREEN TYPE 2-inch, schedule-40 PVC

SLOT SIZE 0.010-inch

CENTRALIZERS NA

DRILLING MUD TYPE NA

BENTONITE SEAL NA

INSTALLATION METHOD NA

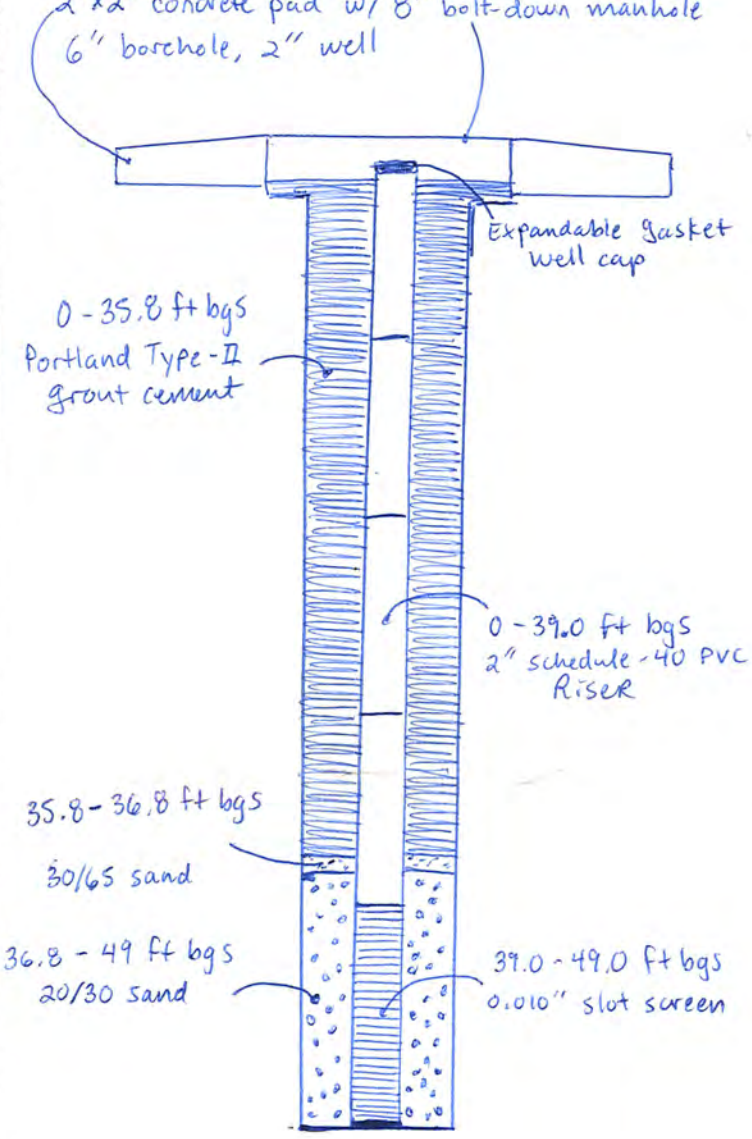
FILTER PACK QTY ~325 lbs

FILTER PACK TYPE 20/30 silica Sand

INSTALLATION METHOD Gravity

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
0.0	GROUND SURFACE
	NA

WELL SKETCH



INSTALLATION NOTES

Rain 3/15 afternoon, begin drilling 3/16 morning

390 gallons PFAS-free drilling water used

~200 lbs dry grout + 20 lbs bentonite

WELL DEVELOPMENT NOTES

DTW BEFORE DEV 5.96

START DEV @ 1545

START DEV >1000 NTU

55 GAL DEV @ 1615

55 GAL 428 NTU

55 GAL 15.88 DTW

110 GAL DEV @ 1645

110 GAL 17.09 DTW

110 GAL 12.4 NTU

END DEV @ 1645
110 GAL
12.4 NTU

WELL DEVELOPED USING DEDICATED SUBMERSIBLE PUMP (PER JEFF NEWTON) & HDPE TUBING

AVE FLOW 1.84 GPM

MONITORING WELL INSTALLATION LOG

JOB NO 21470834A PROJECT Fire Academy of the South - FSCJ; ERIC_17235 WELL NO DEPMW-4D SHEET 1 OF 1

GA INSP Scott Neal - Golder DRILLING METHOD Sonic GROUND ELEV — WATER DEPTH 5.23

WEATHER Cloudy/sun, 5mph DRILLING COMPANY Preferred Drilling Solutions COLLAR ELEV — DATE/TIME 3/17/22 1425

TEMP 75° DRILL RIG TerraSonic 150 Compact Crawler DRILLER Tim Poyer STARTED 1055 (TIME) 3/16/22 (DATE) COMPLETED 1420 (TIME) 3/16/22 (DATE)

MATERIALS INVENTORY

WELL CASING 2 in. dia. 39.5 l.f

CASING TYPE schedule-40 PVC

JOINT TYPE Threaded

GROUT QUANTITY ~210 lbs DRY / 110 gal Wet

GROUT TYPE Portland Type-II w/ ~20 lbs bentonite powder via decon tremmie hose

WELL SCREEN 2 in. dia 10.0 l.f

SCREEN TYPE 2-inch, schedule-40 PVC

SLOT SIZE 0.010-inch

CENTRALIZERS NA

DRILLING MUD TYPE NA

BENTONITE SEAL NA

INSTALLATION METHOD NA

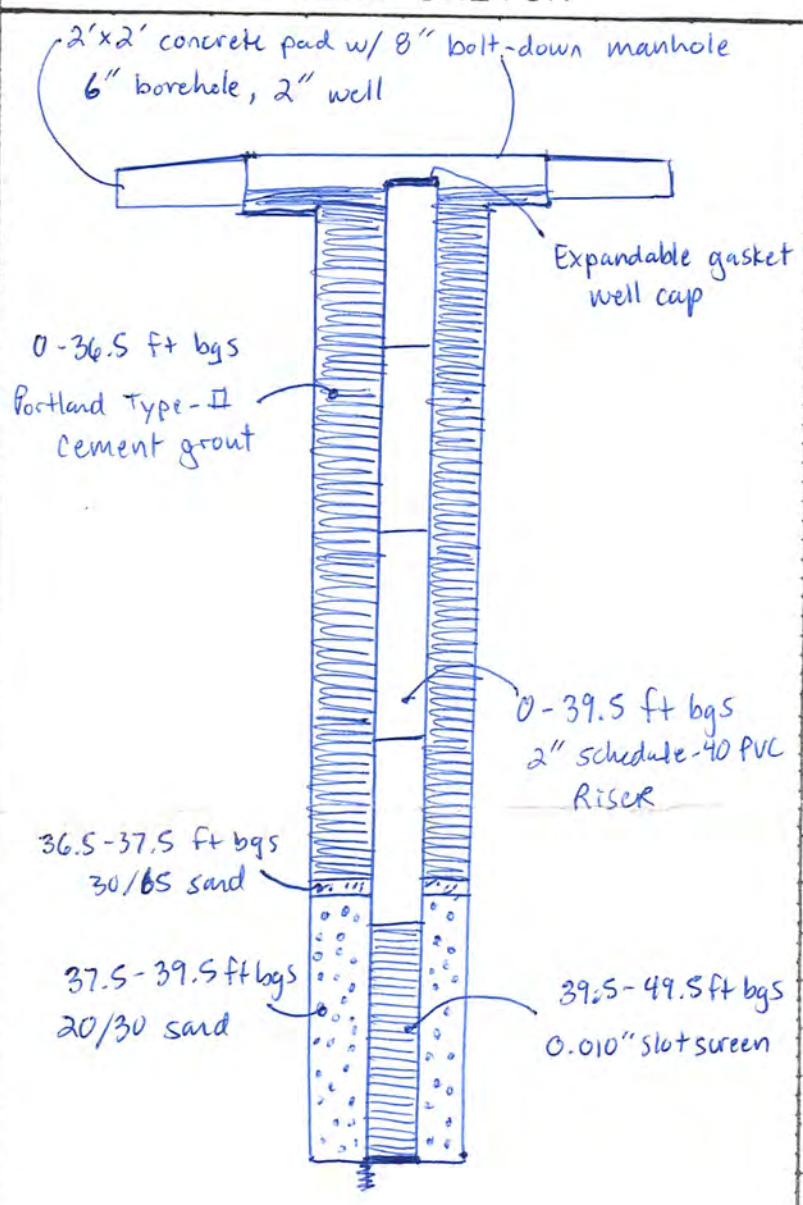
FILTER PACK QTY ~300 lbs

FILTER PACK TYPE 20/30 silica sand

INSTALLATION METHOD gravity

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
	GROUND SURFACE
0.0	N/A
5	
10	~~0-36.5 ft bgs~~
15	~~Portland Type-II cement grout~~
20	
25	
30	
35	~~36.5-37.5 ft bgs~~ ~~30/65 sand~~ (SW)
40	
45	~~37.5-49.5 ft bgs~~ ~~20/30 sand~~ (SW)
50	

WELL SKETCH



INSTALLATION NOTES

~380 gallons drilling water used

~200 lbs dry grout + 20 lbs bentonite

~25 gallons drilling water leaked from ~~grout~~ mud tub when bentonite seal failed. Water pumped from puddle to drum, sediment to drum

WELL DEVELOPMENT NOTES

DTW BEFORE DEV 5.23

START DEV @ 1430

START DEV >1000 NTU

55 GAL DEV @

55 GAL 38.2 NTU

55 GAL WL 20.30

110 GAL WL 20.40

110 GAL 22.4 NTU

110 GAL @ 1530

END DEV @ 1530

110 GAL

22.4 NTU

WELL DEVELOPED USING DEDICATED SUBMERSIBLE PUMP (PER JEFF JETTON) & HOPE TUBING

AVE FLOW 1.34 GPM

Golder Associates

SUBJECT Fire Academy of the South - FSCJ; ERIC-17235		
Job No. Weather: 68°F, cloudy ~~Ref.~~	Made by Scott Neal WSP/Golder Checked Reviewed	Date 3/14/2023 Sheet 1 of 1

Golder/WSP - Scott Neal / FDEP - Bobby W / Preferred Drilling Solutions - Tim, Lane, Jay, Torry

1030 - Pack truck at Golder Jacksonville office
1100 - Leave Golder office
1120 - Enterprise office to pay for Rental RAM 1500
1130 - Bobby (FDEP) on site
1130 - leave Enterprice
1155 - On site.
1210 - All of Preferred Drilling Solutions (PDS) on site; Tim, Lane, Jay, Tory. With Box truck with well materials, Tractor trailer with TerraSonic Compact Crawler drill rig + water totes, Flatbed truck with drill tooling, and support pickup
1215 - Review HASP, SOW, + PFAS SOPs
1235 - Set up decon pit, check rig, hand clear to 5' bgs at DEPMW-2/VP-2J Exploratory Boring location
1330 - Decon drill tooling
1410 - Collect equipment Blank sample EQB-Sonic-1 from lead sonic core/bit auger
1420 - Set up rig on Exploratory Boring in northern portion of AOC-2
1450 - use Sonic rig to collect continuous soil cores in 4" sleeves to 70 ft bgs. See Boring Log. using 4" cores + 6" outer
1540 - End exploratory boring. Call Jeff Newton + discuss deep well construction. Will set 10 ft screen approximately 40-50 ft bgs., 1 foot into 4 ft thick clay layer. Depth on other wells will depend upon when rig hits clay at those locations
1550 - Call Bob Wojcik (Golder Project Director) - Bob agrees on construction
1600 - Drum soils. Leave rig on borehole. Clean work area
1705 - DEPMW-2D work area clean + staging area cleared. All off site
1735 - office. Off job

SW

Golder Associates

SUBJECT Fire Academy of the South - FSCJ		
~~Job No.~~ Driller: Preferred Drilling Solutions - Tim ~~Ref.~~ Terrasonic Compact Crawler	Made by ~~Scott~~ Neal - Golder/usp ~~Checked~~ 68°, cloudy ~~Reviewed~~ Sonic Drilling	Date 3/14/2022 Sheet 1 of 1

EXPLORATORY BORING LOG
AOC-2, DEPMW-2D location

DEPTH BGS (Ft)	Lithology
0-5	Brown & gray fine sand, moist to wet. ⚠ @ ~~4~~ 3.5' bgs
5-7	Dark Brown Fine Sand, saturated, organic odor
7-10	~~Dark~~ Grayish Brown Fine Sand, Sat, slight organic odor
10-11	Grayish Brown Fine Sand, Sat, Sl. organic
11-16	Dark brown. hard silty sand (hardpan), Sat, sl. organic ★
16-~~20~~ 21	Brown silty Sand & fine Sand, Sat, No odor
21-23	Brown Fine Sand, Sat, No odor
23-30	Tan Fine Sand, ~~Moist~~, Sat., No odor
30-34	Gray Silty Sand, Sat
34-42	Gray fine to silty sand with ~35% shell hash (0.1" to 2"), Sat, no odor
42-45	Gray Clayey Silt w/ ~10% shell hash
45-48	same as 34'-42'
48-~~50~~ 52.5'	Gray, elastic clay w/ <5% shell hash in possible worm tubes
52.5-54	Gray silty sand with shell hash (~50%)
55-~~55.5~~ 55.5'	Gray Lime stone
55.5-57	Gray elastic clay
57-57.5	Gray clayey silt with shell hash
57.5-65	Gray elastic clay
65-67.5	Silty clay with <5% shell hash (~90% clay)
67.5-70	Gray elastic clay
End Boring	

★ multiple ~1" thick, hard, brittle/blocky layers within

SUBJECT Fire Academy of the South - FSCJ; ERIC. 17235		
~~Job No.~~ Weather: 65°, cloudy, 5 mph Ref. 1530 - Rain	Made by Scott Neal - Golder ~~Checked~~ ~~Reviewed~~	Date 3/15/2022 Sheet 1 of 1

Golder/WSP - Scott Neal FDEP - Bobby Preferred Drilling Solutions - Tim, Lane, Jay, Tory

0700 - Leave golder office
0725 - On site. PDS & FDEP on site
0730 - Review HASP, SOW, & PFAS SOPs
0750 - Move to DEPMW-2D location in northern AOC-2. Borehole collapsed to >55' bgs overnight. Backfill with bentonite chips to ~~50~~ 49 (SW) ft bgs & cover w/ 2 ft of 20/30 sand. Pressurize borehole with sonic rig to compact bentonite and blow out sand. 250 gal water used
0805 - Borehole at 49 ft bgs. Construct DEPMW-2D. See Well construction log
SI: 39-49 ft bgs, 20/30 sand: 37-49 ft, 36-37 ft bentonite, 0-36 grout
5.5 bags (275 lbs) 20/30 sand, Grout mix: 20 lbs bentonite powder + 200 lbs grout
0930 - DEPMW-2D constructed ~~to~~ (SW) except pad/manhole. Grout to ~5 ft bgs. Move rig to DEPMW-1D location in AOC-1 at VP-1 location. Take rack of sonic tooling to Decon area & decon with steam cleaner & brushes per PFAS SOPs
1020 - Set up on DEPMW ~~2D~~ 1D (SW). Post hole to 5 ft bgs to clear utilities
1035 - Begin drilling to approx. ~~50~~ (SW) 50 ft bgs or top of clay unit
1130 - Felt clay at ~49' bgs. Drilled to 50' bgs. Water coming into tub is gray
1135 - Construct 2" well DEPMW-1D. See Monitoring Well Installation/Construction Log
SI: 40-50 ft bgs, 20/30 sand 38'-50' bgs, 30/65 sand 37-38' bgs. 30/65 fine sand used instead of bentonite because bentonite was binding to inside of drill pipe and trying to pull well on DEPMW-2D.
Approx. 375 gallons used
1150 - Mix grout (~100 lbs grout & 10 lbs bentonite). Grout to 5 ft bgs
1215 - Pack trucks & rig
1230 - 1315 - lunch
1320 - Hand Clear DEPMW-3D location in AOC-3
1330 - Take tooling to Decon area to decon
1400 - Steam cleaner/pressure washer has electrical issue & is not working
1420 - Can not troubleshoot steam cleaner. Calling for rentals or replacement
1500 - Preferred will pick up spare steam cleaner from Live Oak, FL office
1500 - Large ~~fr~~ (SW) weather front with heavy rains in coming. Secure staging area
1530 - All off site. PDS to Live Oak to pick up cleaner
1600 - Office

(SW)

Golder Associates

SUBJECT Fire Academy of the South - FSCJ ; ERIC-17235		
~~Job No.~~ Weather: 70°, cloudy Ref.	Made by Scott Neal - Golder/WSP ~~Checked~~ ~~Reviewed~~	Date 3/16/2022 Sheet 1 of 1

Golder - Scott Neal FDEP SIS - Bobby Williams Preferred Drilling Solutions: Tim, Jay, Tory, Lane

0720 - Mob to site
0725 - All on site
0730 - Review HASP, SOW, & PFAS SOPs
0745 - decon tooling using new steam cleaner per PFAS SOPs

0805 - Collect equipment blank sample EQB-sonic-2 from lead sonic rod & bit
0810 - Set up on DEPMW-3D at VP-3/DEPMW-5 location in AOC-3
0835 - Begin drilling six-inch O.D. rods to approximately 50 ft bgs or where driller feels transition into clay
0905 - Clay felt at ~48.5 ft. Drill to 49 ft bgs

0915-0925 - Heavy Rain - Break
0925 - Construct DEPMW-3D to 49 ft bgs. See Well Construction Log. 39'-49' SI. 20/30 from 49 to 36.8 ft, 35.8-36.8 30/65 sand, grout to surface. See Well Log. 390 gal used.
1000 - Grout DEPMW-3D

1030 - Move rig to DEPMW-4D at VP-4/DEPMW-4S location in AOC-4. Take tooling to decon area and decon.
1055 - Cut asphalt at DEPMW-4D & Post hole to 5 ft bgs to clear utilities
1110 - Set up sonic rig on DEPMW-4D
1130 - 1230 - lunch

1230 - Begin drilling 6-inch O.D. rods to approximately 50' bgs or clay layer
1300 - Collect field reagent blank sample FRB-DEPMW-4D for PFAS by leaving bottles open for 5 minutes ~20 feet from borehole w/ PFAS free water in bottles.
1323 - Clay at 48 ft bgs. Drill to ~~49 ft bgs~~ (SW) 49.5 ft bgs

1328 - Construct DEPMW-4D to 49.5ft bgs. See Well Construction Log
(SW) 1315 - Bentonite seal on mud tub failed & water leaked to parking lot. Pump water from puddle to drum. ~25 gal
1415 - DEPMW-3D Grouted to grade.
1420 - PDS cleans work area & packing equipment & moving to staging area

1450 - Pack rig, stage drums, build forms, pack vehicles
1730 - All off site
1805 - office, off jobs

(SW)

Golder Associates

SUBJECT FIRE ACADEMY OF THE SOUTH - FSCJ ERC. 17235		
Job No. WEATHER 75°F SW ~~Ref.~~	Made by STEPHEN SIDER Checked GOLDER/WSP Reviewed	Date 3/17/22 Sheet 1 of 1

GOLDER/WSP - STEPHEN SIDER/ FDEP - BOBBY W/ PREFERRED DRILLING (PDS) SOLUTIONS - TIM, LANE, JAT TORRT

0700 - LEAVE GOLDER/WSP OFFICE, JACKSONVILLE, FL
0730 - ARRIVE ON SITE
0745 - FDEP & PDS ON SITE
0800 - REVIEW HASP, SOW & PFAS SOP
0830 - JAT OFFSITE W/ DRILL STEMS & DECON RIG, TIM OFFSITE W/ STEAM CLEANER/ PRESSURE WASHER
0900 - INSTALL WELL PAD (2x2) & MANHOLE (8") ON DEPMW-1D, SEE WELL CONSTRUCTION LOG
0930 - BEGIN DEVELOPMENT OF DEPMW-1D, SEE LOG
1100 - INSTALL WELL PAD (2x2) & MANHOLE (8") ON DEPMW-2D, SEE WELL CONSTRUCTION LOG
1120 - END DEV DEPMW-1D
1130 - BEGIN DEVELOPMENT OF DEPMW-2D, SEE LOG
1200 - INSTALL WELL PAD (2x2) & MANHOLE (8") ON DEPMW-3D, SEE WELL CONSTRUCTION LOG, TIM OFFSITE AFTER RETURNING STEAM/PRESSURE CLEANER
1330 - INSTALL WELL PAD (2x2) & MANHOLE (8") ON DEPMW-4D, SEE WELL CONSTRUCTION LOG, BOBBY FDEP CALL JEFF HEWTON FDEP REGARDING PERMISSIBLE DEVELOPMENT PUMPS & VOLUMES. REQUIRED TO PUMP 10 GAL PER WELL, PERISTALTIC PUMP NOT REQUIRED, MAY DEVELOP USING SUBMERSIBLE W/ DECON BETWEEN WELLS, BOBBY FDEP OFF SITE
1430 - BEGIN DEVELOPMENT OF DEPMW-4D, SEE LOG. DEVELOPMENT PUMP DECON COMPLETED PER SOP
1500 - END DEV DEPMW-2D
1530 - END DEV DEPMW-4D, DECON SUBMERSIBLE PUMP PER SOP
1545 - BEGIN DEVELOPMENT OF DEPMW-3D, SEE LOG
1645 - END DEV DEPMW-3D
1700 - STAGE ALL DRUMS IN STAGING AREA SE OF CONCRETE BULK BUILDING
14 ~~12~~ 13 HOLD, 4 SOLID 55 GALLON DRUMS ON SITE (18 TOTAL)
1715 LOAD DRILL RIG, STAD STEEL & WATER TOTES ON TRAILER, CONFIRM SITE CLEAN, ALL WELLS & DRUMS SECURE, DEPART SITE (GOLDER/WSP & PDS)
1745 ARRIVE GOLDER/WSP OFFICE, JACKSONVILLE, FL, UNLOAD TRUCK
1800 PARK TRUCK, OFF IB

55

Daily PFAS Sampling Checklist

Date: 3/14/2022

Site Name: Fire Academy of the South - FSCJ, ERIC_17235

Weather (*temperature/precipitation*): 68°, cloudy

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:

Decon Pit, steam cleaner, + all other PFAS SOPs for drilling reviewed + followed

Field Team Leader Name (Print): Scott Neal - Golder

Field Team Leader Signature: Scott Neal

Date/Time: 3/14/2022 1225

Daily PFAS Sampling Checklist

Date: 3/15/22

Site Name: Fire Academy of the South - FSCJ ; ERIC. 17235

Weather (*temperature/precipitation*): 67°, cloudy - Rain in afternoon (SDV)

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:

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

Notes:

N/A

Field Team Leader Name (Print): Scott Neal - Golder/WSP

Field Team Leader Signature: Scott Neal

Date/Time: 3/15/2022

Daily PFAS Sampling Checklist

Date: 3/16/2022

Site Name: Fire Academy of the South - FSCJ; ERIC-17235

Weather (*temperature/precipitation*): 68°, cloudy

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:

Equip. Blank taken from sonic drill tooling after decon

Field Team Leader Name (Print): Scott Neal - Golder/WSP

Field Team Leader Signature: [signature]

Date/Time: 3/16/22 0740

Daily PFAS Sampling Checklist

Date: 3/17/22

Site Name: FIRE ACADEMY OF THE SOUTH

Weather (*temperature/precipitation*): 35° F SNOW

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): STEALEN SIDER

Field Team Leader Signature:

Date/Time: 3/17/22

FIRE ACADEMY OF THE SOUTH
4/4/22
S. SIDER / H. BROOKS
80° F SUN

0700 ARRIVE GOLDER JACKSONVILLE, FL, LOAD TRUCK, PREPARE COOLERS & PAPERWORK
0720 CALIBRATE YSI & TURBIDIMETER, SEE LOGS
0800 DEPART GOLDER JACKSONVILLE, FL
0815 STOP AT HOME DEPOT ON SOUTHSIDE BLVD FOR FIELD SUPPLIES
0830 STOP AT ENTERPRISE RENTAL CAR TO SWIPE RENTAL CREDIT CARD
0915 ARRIVE ON SITE, CHECK IN W/ JASON CARPENTER, REVIEW HASP & SOW
0930 BEGIN WL MEASUREMENT, DECON ACCORDING TO FDEP PFAS SOP
1200 COMPLETE WL MEASUREMENT, FSCJ-TMW-195 COULD NOT BE LOCATED, SUSPECT COVERED BY JUNK VEHICLES OR ROLL OFF CONTAINER
1200-1300 LUNCH
1300 BEGIN GW SAMPLING ACTIVITIES ACCORDING TO FDEP PFAS SOP, SEE GW SAMPLING LOGS
1600 END GW SAMPLING ACTIVITIES, DRUM PURGE & DECON WATER
1615 DEPART SITE
1700 ARRIVE GOLDER JACKSONVILLE, FL, PARK TRUCK, SECURE SAMPLES & EQUIPMENT, OFF JOB

FIRE ACADEMY OF THE SOUTH
4/14/22
SNIDER/H. BROOKS
80°F SUN

WELL ID	WL @ TOC
FSCJ-TMW-1S	2.84
FSCJ-TMW-2SR	3.05
FSCJ-TMW-2D	5.19
FSCJ-TMW-3S	2.10
FSCJ-TMW-4SR	2.66
FSCJ-TMW-4DR	6.89
FSCJ-TMW-5SR	OBSTRUCTED
FSCJ-TMW-6S	1.72
FSCJ-TMW-6D	4.79
FSCJ-TMW-7SR	2.62
FSCJ-TMW-8S	3.31
FSCJ-TMW-9S	4.72
FSCJ-TMW-10S	2.68
FSCJ-TMW-11S	1.22
FSCJ-TMW-12S	0.63
FSCJ-TMW-13S	1.53
FSCJ-TMW-14S	2.91
FSCJ-TMW-15S	2.62
FSCJ-TMW-16S	0.90
FSCJ-TMW-17S	0.81
FSCJ-TMW-18S	0.90
FSCJ-TMW-19S	COVERED
FSCJ-TMW-20S	3.06

WELL ID	WL @ TOC
DEPMW-1S	1.90
DEPMW-2S	1.59
DEPMW-3S	2.25
DEPMW-4S	1.68
DEPMW-5S	1.92
DEPMW-6S	1.68
DEPMW-7S	2.35
DEPMW-8S	1.33
DEPMW-9S	0.76
DEPMW-10S	4.74
DEPMW-1D	4.62
DEPMW-2D	5.94
DEPMW-3D	6.15
DEPMW-4D	5.30

FIRE ACADEMY OF THE SOUTH
4/5/22
J. SIDER / H. BROOKS
82° F SUN

0700 ARRIVE GOLDER JACKSONVILLE, FL, CALIBRATE 451 & TURBIDIMETER, SEE LOGS
0745 DEPART GOLDER JACKSONVILLE, FL
0830 ARRIVE ON SITE, REVIEW HASP & SORA, CALL JEA PAUL SCAMBETTERA TO COORDINATE JEA WELL ACCESS FOR 2PM, BEGIN GW SAMPLING ACTIVITY, SEE GW SAMPLING LOGS
1235-1335 LUNCH
1335 MEET PAUL SCAMBETTERA JEA AT OAKDALE WELL STATION, FOLLOW TO 4 JEA WELLS (1, 5, 6 &
1445 END GW SAMPLING ACTIVITY, DRUM ALL PURGE & DECON WATER
1515 DEPART SITE
1600 ARRIVE GOLDER JACKSONVILLE, FL, PARK TRUCK, SECURE SAMPLES & EQUIPMENT, OFF JOB

FIRE ACADEMY OF THE SOUTH
4/6/22
J. SIDER / H. BROOKS
80° F SUN

0645 ARRIVE GOLDER JACKSONVILLE, FL, CALIBRATE YSI & TURBIDIMETER, SEE LOGS
0715 DEPART GOLDER JACKSONVILLE, FL
0750 BUY ICE AT WAWA BEACH BLVD @ 295 E
0800 ARRIVE ON SITE, REVIEW HASEP & SOW
0830 BEGIN GW SAMPLING ACTIVITIES, SEE GW SAMPLING LOGS
1015 DARYL BANKS, BANKS & BANKS SURVEYING ON SITE, REVIEW HASEP & SOW
1115 JEFF NEWTON & BOBBY WILLIAMS ON SITE, REVIEW HASEP
1145 SCOTT NEAL & MATT CREWS ON SITE, REVIEW HASE WALK SITE NEAR FSCJ-TMW-95
1215 - 1330 LUNCH
1330 RESUME GW SAMPLING
*1200 RELINQUISH 4/4 & 4/5 PFAS SAMPLES TO JEFF NEWTON FDEP
1455 ATTEMPT PURGE OF FSCJ-TMW-SSR, WELL PURGE DRY AFTER ~ 200 mL, SAND BOTTOM @ 2.7 FT BGS, PUMP CAN NOT CLEAR SEDIMENT, CALL SCOTT NEAL, ADVISED TO STOP UNTIL FURTHER DIRECTION
1645 END GW SAMPLING ACTIVITY, DRUM ALL DECON & PURGE WATER
1700 DEPART SITE
1745 ARRIVE GOLDER JACKSONVILLE, FL, PARK TRUCK, SECURE SAMPLES & EQUIPMENT, OFF JOB

FIRE ACADEMY OF THE SOUTH
4/7/22
S. SIDER / H. BROOKS
82°F SCATTERED SHOWERS / CLOUD

0645 ARRIVE GOLDER JACKSONVILLE, FL CALIBRATE YSI & TURBIDIMETER, SEE LOGS
0715 DEPART GOLDER JACKSONVILLE, FL
0745 BUY ICE AT TWICE THE ICE BEACH BLVD & SOUTHSIDE BLVD
0800 ARRIVE ON SITE, REVIEW HASP & SOW
0815 BEGIN GW SAMPLING ACTIVITIES, SEE LOGS
0910 - 0945 HEAVY RAIN, LIGHTNING STAND DOWN
1145-1245 ~~1200-1300~~ LUNCH
1245 RESUME GW SAMPLING ACTIVITIES
1545 END GW SAMPLING ACTIVITY, DRUM ALL DECON & PURGE WATER, LIGHTING APPROACHING
1600 DEPART SITE
1645 ARRIVE GOLDER JACKSONVILLE, FL, PARK TRUCK, SECURE SAMPLES & EQUIPMENT, OFF JOB

FIRE ACADEMY OF THE SOUTH
4/8/22
S. SIDER / H. BROOKS
80° F SUN

0730 ARRIVE GOLDER JACKSONVILLE, FL CALIBRATE YSI & TURBIDIMETER, SEE LOGS
0800 DEPART GOLDER JACKSONVILLE, FL
0830 BUY ICE AT TWICE THE ICE BEACH BLVD & SOUTHSIDE BLVD
0845 ARRIVE ON SITE, REVIEW HASP & SOW, BEGIN GW SAMPLING ACTIVITIES
1115 END GW SAMPLING ACTIVITIES, DRUM ALL DECON & PURGE WATER (+3 LIQUID DRUMS = 17 LIQUID, 4 SOIL ON SITE)
1145 CHECK & SECURE ALL DRUMS W/ LABELS & WELL CAPS, DEPART SITE
1215 ARRIVE GOLDER JACKSONVILLE, FL, UNLOAD TRUCK / EQUIPMENT, SECURE SAMPLES, CALIBRATE YSI & TURBIDIMETER, SEE LOGS POST EVENT PAPERWORK ORGANIZATION/ SCANNING
1330 OFF JOB

FIRE ACADEMY OF THE SOUTH
4/11/22
S.SIDER
80°F SUN

0830 ARRIVE GOLDER JACKSONVILLE, FL, PREPARE SAMPLES FOR ARCP OFF, PREPARE/CHECK COC DOCUMENTS, CONFIRM/ADD ICE, LOAD TRUCK
0930 DEPART GOLDER JACKSONVILLE, FL
1100 ARRIVE AT BUSY BEE TRAVEL CENTER I-10 & US-129 LIVE OAK, FL
1110 RELINQUISH 4/6 - 4/8 SAMPLES TO BOBBY WILLIAMS, FDEP
1130-1200 LUNCH
1200 DEPART BUSY BEE TRAVEL CENTER
1330 ARRIVE GOLDER JACKSONVILLE, FL, CLEAN/UNLOAD TRUCK
1400 OFF JOB

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH		SITE LOCATION: JACKSONVILLE, FL
WELL NO: FSCJ-TMW-1S	SAMPLE ID: FSCJ-TMW-1S	DATE: 4/ 7 /22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 7 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.84	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)
= (12 feet – 2.84 feet) X 0.16 gallons/foot = 1.47 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1109	PURGING ENDED AT: 1132	TOTAL VOLUME PURGED (gallons): 2.30

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1124	1.50	1.50	0.10	3.77	7.28	22.3	488.4	1.48 / 17.1	6.25	-26.0	clear/none
1128	0.40	1.90	0.10	3.77	7.28	22.2	490.0	1.61 / 18.5	6.49	-25.0	" "
1132	0.40	2.30	0.10	3.77	7.30	22.3	493.1	1.71 / 18.9	6.20	-26.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1133	SAMPLING ENDED AT: 1138
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
FSCJ-TMW-1S	2	PE	150 mL	NONE	-	*	PFAS	APP	~400
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						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-25R	SAMPLE ID: FSCJ-TMW-25R	DATE: 4/ 7 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 3.05	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)
= (3. 11 feet – 3.05 feet) X 0.06 gallons/foot = 0.48 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	PURGING INITIATED AT: 0843	PURGING ENDED AT: 0852	TOTAL VOLUME PURGED (gallons): 0.90

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0848	0.50	0.50	0.1	3.26	7.12	22.3	882	0.34/3.9	19.1	-50.2	clear/none
0850	0.20	0.70	0.1	3.26	7.12	22.3	870	0.33/3.8	17.5	-57.0	" "
0852	0.20	0.90	0.1	3.26	7.12	22.3	854	0.37/4.3	15.8	-61.9	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0853	SAMPLING ENDED AT: 0905
PUMP OR TUBING DEPTH IN WELL (feet): 5.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-25R	2	PE	150 mL	NONE	-	*	PFAS	APP	~400
"	2	AG	500 mL	H2SO4 (2)	-	*	PAH	APP	~400
"	2	AG	500 mL	H2SO4	-	*	TRPH	APP	~400
"	2	CG	40 mL	HCL	-	*	VOC	APP	~400
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-35	SAMPLE ID: FSCJ-TMW-35	DATE: 4/ 7 /22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 7 feet to 12 feet	STATIC DEPTH TO WATER (feet): ~~2.35~~ 2.10	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)
= (12 feet – ~~2.35~~ 2.10 feet) X 0.16 gallons/foot = ~~1.55~~ 1.59 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= ~~3.5~~ gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~~4.25~~	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	PURGING INITIATED AT: 1000	PURGING ENDED AT: 1034	TOTAL VOLUME PURGED (gallons): 3.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1026	2.80	2.80	0.10	1.87	6.74	22.7	502	0.39/4.5	1.78	-176.0	CLEAR/NONE
1030	0.40	3.0	0.10	1.89	6.75	22.7	501	0.26/3.1	1.82	-201.0	" "
1034	0.40	3.40	0.10	1.89	6.73	22.7	500.0	0.25/3.0	1.60	-218.1	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1035	SAMPLING ENDED AT: 1047
PUMP OR TUBING DEPTH IN WELL (feet): 3.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ TMW 35	2	PE	150 mL	NONE	-	*	PFAS	APP	~400
"	2	AG	50 mL	-	-	*	PAH	APP	~400
"	2	AG	50mL	H2SO4	-	*	TRPH	APP	~400
"	2	CC	40mL	HCL	-	*	VOC	APP	~400
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-45R	SAMPLE ID: FSCJ-TMW-45R	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 2.66	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)
= (11 feet – 2.66 feet) X 0.16 gallons/foot = 1.34 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 0923	PURGING ENDED AT: 0945	TOTAL VOLUME PURGED (gallons): 2.20

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0941	1.80	1.80	0.10	2.94	5.65	22.3	262.2	0.24/2.8	5.75	-203.6	CLEAR/NONE
0943	0.20	2.00	0.10	2.94	5.64	22.4	265.2	0.24/2.7	7.60	-205.0	" "
0945	0.20	2.20	0.10	2.94	5.66	22.4	267.7	0.28/2.6	7.40	-206.7	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0946	SAMPLING ENDED AT: 0951
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
FSCJTMW 45R	4	PE	150 mL	NONE	-	*	PFAS	APP	~400
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						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
DUP COLLECTED

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-6S	SAMPLE ID: FSCJ-TMW-6S	DATE: 4/5/22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 1.72	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)
= (11 feet – 1.72 feet) X 0.0206 gallons/foot = 0.56 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.75	PURGING INITIATED AT: 1050	PURGING ENDED AT: 1112	TOTAL VOLUME PURGED (gallons): 0.91

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1108	0.75	0.75	0.04	3.60	4.65	22.8	300.3	0.34 / 3.9	10.6	-94.5	CLEAR/NONE
1110	0.08	0.83	0.04	3.60	4.65	22.9	300.8	0.31 / 3.6	11.6	-97.8	" "
1112	0.08	0.91	0.04	3.60	4.64	22.8	300.6	0.28 / 3.1	9.88	-92.4	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1113	SAMPLING ENDED AT: 1118
PUMP OR TUBING DEPTH IN WELL (feet): 4.75	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-6S	2	PE	150 mL	NONE	-	*	PFAS	APP	~150
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-7SR	SAMPLE ID: FSCJ-TMW-7SR	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.62	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)
= (12 feet – 2.62 feet) X 0.06 gallons/foot = 0.57 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 011	PURGING ENDED AT: 1027	TOTAL VOLUME PURGED (gallons): 1.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1023	1.20	1.20	0.10	2.95	3.86	21.4	742	0.83/9.2	10.1	47.8	CLEAR/ODOR
1025	0.20	1.40	0.10	2.95	3.84	21.4	737	0.68/7.2	6.77	43.1	" "
1027	0.20	1.60	0.10	2.95	3.84	21.4	736	0.66/7.4	4.69	39.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1028	SAMPLING ENDED AT: 1033
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ TMW 7SR	2	PE	150 mL	NONE	-	*	PFAS	APP	~400
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						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-8S	SAMPLE ID: FSCJ-TMW-8S	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 3.31	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)
= (11 feet – 3.31 feet) X 0.06 gallons/foot = 0.47 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	PURGING INITIATED AT: 1512	PURGING ENDED AT: 1522	TOTAL VOLUME PURGED (gallons): 1.18

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1518	0.70	0.12	0.70	3.49	5.67	23.0	132.1	0.42/4.9	6.20	-104.6	CLEAR/NONE
1520	0.24	0.12	0.94	3.49	5.65	22.9	134.1	0.43/5.0	3.52	-111.0	" "
1522	0.24	0.12	1.18	3.49	5.64	22.9	134.3	0.38/4.5	3.06	-117.9	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1523	SAMPLING ENDED AT: 1528
PUMP OR TUBING DEPTH IN WELL (feet): 5.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-8S	2	PE	150 mL	NONE	-	*	PFAS	APP	~450
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
FRB COLLECTED

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-9S	SAMPLE ID: FSCJ-TMW-9S	DATE: 4/ 6 /22

PURGING DATA

(~3' STICK-UP)

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 4.72	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)
= (11 feet – 4.72 -3 5/4 feet) X 0.06 gallons/foot = 0.56 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	PURGING INITIATED AT: 1124	PURGING ENDED AT: 1138	TOTAL VOLUME PURGED (gallons): 0.84

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1134	0.60	0.60	0.06	6.00	3.97	21.4	289.4	0.52/5.9	11.7	155.3	CLEAR/NONE
1136	0.12	0.72	0.06	6.00	3.95	21.3	288.2	0.61/6.9	4.50	143.2	" "
1138	0.12	0.84	0.06	6.00	3.95	21.3	288.0	0.42/4.8	1.91	138.7	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1139	SAMPLING ENDED AT: 1144
PUMP OR TUBING DEPTH IN WELL (feet): 6.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
FSCJ-TMW-9S	2	PE	150 mL	NONE	-	*	PFAS	APP	~225
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-105	SAMPLE ID: FSCJ-TMW-105	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.68	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)
= (12 feet – 2.68 feet) X 0.06 gallons/foot = 0.56 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1420	PURGING ENDED AT: 1438	TOTAL VOLUME PURGED (gallons): 1.39

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1430	0.75	0.75	0.08	3.05	4.29	24.0	100.0	0.28/3.3	19.3	60.8	CLEAR/NONE
1432	0.16	0.91	0.08	3.05	4.32	24.0	98.8	0.23/2.7	24.9	55.0	" "
1434	0.16	1.07	0.08	3.05	4.33	24.1	98.7	0.22/2.6	23.9	54.6	" "
1436	0.16	1.23	0.08	3.05	4.33	24.0	98.3	0.24/2.8	21.8	53.1	" "
1438	0.16	1.39	0.08	3.05	4.34	24.2	97.9	0.25/3.0	25.7	52.1	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1439	SAMPLING ENDED AT: 1444
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ TMW 105	3	PE	150 mL	NONE	-	*	PFAS	APP	~300
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-11S	SAMPLE ID: FSCJ-TMW-11S	DATE: 4/8 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 1.22	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)
= (12 feet – 1.22 feet) X 0.06 gallons/foot = 0.65 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	PURGING INITIATED AT: 0853	PURGING ENDED AT: 0907	TOTAL VOLUME PURGED (gallons): 1.15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0903	0.75	0.75	0.1	1.35	6.86	21.1	604	2.17 / 24.4	3.44	-144.3	CLOUDY LT
0905	0.20	0.95	0.1	1.35	6.84	21.1	603	2.16 / 24.3	3.53	-146.2	" "
0907	0.20	1.15	0.1	1.35	6.83	21.1	601	2.17 / 24.5	3.87	-149.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0908	SAMPLING ENDED AT: 0920
PUMP OR TUBING DEPTH IN WELL (feet): 2.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-11S	2	PE	150 mL	NONE	-	*	PFAS	APP	~400
"	2	AG	500mL	-	-	*	PAH	"	~400
"	2	AG	500mL	H2SO4	-	*	TRPH	"	~400
"	2	AG	40mL	HCL	-	*	VOC	"	~400
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-125	SAMPLE ID: FSCJ-TMW-125	DATE: 4/8/22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 0.63	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)
= (11 feet – 0.63 feet) X 0.06 gallons/foot = 0.62 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	PURGING INITIATED AT: 0929	PURGING ENDED AT: 0941	TOTAL VOLUME PURGED (gallons): 1.48

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0937	1.0	1.0	0.12	0.86	5.99	22.9	234.0	0.80/9.3	7.80	-159.2	CLEAR/NONE
0939	0.24	1.24	0.12	0.86	5.98	22.9	234.0	0.99/11.5	5.24	-163.9	" "
0941	0.24	1.48	0.12	0.86	5.97	22.9	233.9	0.97/11.3	4.88	-165.0	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0942	SAMPLING ENDED AT: 0954
PUMP OR TUBING DEPTH IN WELL (feet): 2.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-125	2	PE	150 mL	NONE	-	*	PFAS	APP	~450
"	2	AG	500 mL	H2SO4 @ 4°C	-	*	PAH	"	~450
"	2	AG	500 mL	H2SO4	-	*	TRPH	"	~450
"	2	CG	40 mL	HCL	-	*	VOC	"	~450
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-135	SAMPLE ID: FSCJ-TMW-135	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 1.53	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)
= (11 feet – 1.53 feet) X 0.06 gallons/foot = 0.57 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	PURGING INITIATED AT: 1545 (1825)*	PURGING ENDED AT: 1600	TOTAL VOLUME PURGED (gallons): 1.69

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1556	1.25	1.25	0.11	2.04	6.07	19.6	348.3	0.65/7.0	2.58	-32.5	CLEAR/NONE
1558	0.22	1.47	0.11	2.04	6.06	19.7	348.8	0.64/7.0	2.59	-46.4	" "
1600	0.22	1.69	0.11	2.04	6.06	19.7	348.6	0.65/7.1	3.04	-52.0	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1601	SAMPLING ENDED AT: 1611
PUMP OR TUBING DEPTH IN WELL (feet): 3.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
FSCJTMW 135	4	PE	150 mL	NONE	-	*	PFAS	APP	~425
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
DUP COLLECTED

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-145	SAMPLE ID: FSCJ-TMW-145	DATE: 4/ 5 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 2.91	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)
= (11 feet – 2.91 feet) X 0.06 gallons/foot = 0.49 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1201	TOTAL VOLUME PURGED (gallons): 0.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1157	0.55	0.55	0.05	3.380	5.51	23.8	433.0	0.62/7.4	9.10	-51.8	clear/none
1159	0.10	0.65	0.05	3.80	5.50	23.9	434.3	0.48/5.8	9.81	-58.6	" "
1201	0.10	0.75	0.05	3.80	5.52	23.9	435.1	0.46/5.5	9.61	-64.9	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1202	SAMPLING ENDED AT: 1207
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-145	2	PE	150 mL	NONE	-	*	PFAS	APP	~200
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						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-155	SAMPLE ID: FSCJ-TMW-155	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 2.62	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)
= (11 feet – 2.62 feet) X 0.09 gallons/foot = 0.76 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.5	PURGING INITIATED AT: 0820	PURGING ENDED AT: 0849	TOTAL VOLUME PURGED (gallons): 1.00

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0845	0.80	0.80	0.05	2.91	6.93	22.3	326.7	0.70 / 8.1	2.40	-74.9	CLEAR/NONE
0847	0.10	0.90	0.05	2.91	6.92	22.3	327.5	0.72 / 8.2	1.97	-92.3	" "
0849	0.10	1.00	0.05	2.91	6.92	22.3	329.5	6.74 / 8.4	2.25	-98.7	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0850	SAMPLING ENDED AT: 0855
PUMP OR TUBING DEPTH IN WELL (feet): 4.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FCJ TMW 155	4	PE	150 mL	NONE	-	*	PFAS	APP	~200
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
MS/MSD COLLECTED, EQB-PP-1 COLLECTED (EQB @ 0910)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-165	SAMPLE ID: FSCJ-TMW-165	DATE: 4/ 8 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 0.90	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)
= (12 feet – 0.90 feet) X 0.09 gallons/foot = 1.0 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	PURGING INITIATED AT: 0908	PURGING ENDED AT: 1012	TOTAL VOLUME PURGED (gallons): 1.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1008	1.20	1.20	0.12	1.21	6.40	22.4	445.2	0.46/5.3	1.58	-135.6	CLEAR/NONE
1010	0.24	1.44	0.12	1.21	6.40	22.3	442.9	0.47/5.4	1.43	-137.3	" "
1012	0.24	1.68	0.12	1.21	6.41	22.3	442.6	0.47/5.4	1.37	-137.7	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1013	SAMPLING ENDED AT: 1018
PUMP OR TUBING DEPTH IN WELL (feet): 2.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJTMW 165	4	PE	150 mL	NONE	-	*	PFAS	APP	~450
"						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
MS/MSD COLLECTED

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-17S	SAMPLE ID: FSCJ-TMW-17S	DATE: 4/ 8 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 0.81	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)
= (11 feet – 0.81 feet) X 0.09 gallons/foot = 0.92 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 2.0	PURGING INITIATED AT: 1023	PURGING ENDED AT: 1035	TOTAL VOLUME PURGED (gallons): 1.48

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1031	1.0	1.0	0.12	1.25	6.56	21.1	314.0	1.96 / 22.1	1.44	17.1	CLEAR/NONE
1033	0.24	1.24	0.12	1.25	6.56	21.1	313.4	1.94 / 21.8	1.21	15.0	" "
1035	0.24	1.48	0.12	1.25	6.57	21.1	313.0	1.95 / 21.8	1.29	13.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1036	SAMPLING ENDED AT: 1048
PUMP OR TUBING DEPTH IN WELL (feet): 2.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-17S	2	PE	150 mL	NONE	-	*	PFAS	APP	~450
"	2	AG	500mL	—	-	*	PAH	"	~450
"	2	AG	500mL	H_2SO_4	-	*	TRPH	"	~450
"	2	CG	40mL	HCL	-	*	VOC	"	
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-185	SAMPLE ID: FSCJ-TMW-185	DATE: 4/8/22

PURGING DATA

WELL DIAMETER (inches): 1 1/2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 1 feet to 11 feet	STATIC DEPTH TO WATER (feet): 0.90	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)
= (11 feet – 0.90 feet) X 0.09 gallons/foot = 0.91 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 2.0	PURGING INITIATED AT: 1053	PURGING ENDED AT: 1105	TOTAL VOLUME PURGED (gallons): 1.48

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1101	1.0	1.0	0.12	1.11	6.22	22.4	255.8	0.76/8.8	2.23	33.3	CLEAR/NONE
1103	0.24	1.24	0.12	1.11	6.22	22.4	255.0	0.74/8.5	2.67	27.8	" "
1105	0.24	1.48	0.12	1.11	6.23	22.4	255.4	0.69/7.9	2.07	20.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1106	SAMPLING ENDED AT: 1118
PUMP OR TUBING DEPTH IN WELL (feet): 2.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ TMW 185	4	PE	150 mL	NONE	-	*	PFAS	APP	~450
"	2	AG	500 mL	-	-	*	PAH	"	~450
"	2	AG	500 mL	H2SO4	-	*	TRPH	"	~450
"	2	CG	40 mL	HCl	-	*	VOC	"	~450
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
DUP collected (PFAS)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-20S	SAMPLE ID: FSCJ-TMW-20S	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 1 1/2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.06	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)
= (12 feet – 3.06 feet) X 0.09 gallons/foot = 0.80 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 5.0	PURGING INITIATED AT: 1348	PURGING ENDED AT: 1408	TOTAL VOLUME PURGED (gallons): 1.57

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1404	1.25	1.25	0.08	3.72	4.12	23.1	196.2	0.32/3.8	32.2	57.5	BROWN/POOR
1406	0.16	1.41	0.08	3.72	4.12	23.2	196.2	0.31/3.7	35.0	57.6	" "
1408	0.16	1.57	0.08	3.72	4.12	23.2	195.8	0.32/3.8	36.2	56.8	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1409	SAMPLING ENDED AT: 1414
PUMP OR TUBING DEPTH IN WELL (feet): 5.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ TMW 20S	3	PE	150 mL	NONE	-	*	PFAS	APP	~325
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-15	SAMPLE ID: DEPMW-15	DATE: 4/ 4 /22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 1.90	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)
= (12 feet – 1.90 feet) X 0.02 gallons/foot = 0.21 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.75	PURGING INITIATED AT: 1531	PURGING ENDED AT: 1544	TOTAL VOLUME PURGED (gallons): 0.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1540	0.50	0.50	0.05	2.06	6.24	22.0	291.5	0.41 / 4.7	15.8	-181.9	CLEAR/TAN
1542	0.10	0.60	0.05	2.06	6.24	22.0	291.7	0.34 / 3.9	15.3	-191.0	" "
1544	0.10	0.70	0.05	2.06	6.24	22.0	292.0	0.34 / 3.9	12.6	-192.1	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1545	SAMPLING ENDED AT: 1550
PUMP OR TUBING DEPTH IN WELL (feet): 3.75	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW 015	2	PE	150 mL	NONE	-	*	PFAS	APP	~200
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						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL
WELL NO: DEPMW-25	SAMPLE ID: DEPMW-25
	DATE: 4/7/22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 1.59 2.02 2.33 (SG)	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)

= (12 feet – 1.59 2.02 feet) X 0.02 0.06 gallons/foot = ~~0.20~~ 0.21 ~~0.60~~ gallons

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

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.25	PURGING INITIATED AT: 1440	PURGING ENDED AT: 1514	TOTAL VOLUME PURGED (gallons): 1.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1510	1.0	1.0	0.03	1.70	5.48	26.5	109.3	0.44/5.5	26.3	33.9	CLEAR/none
1512	0.96	1.06	0.03	1.70	5.48	26.5	109.3	0.46/5.8	26.1	42.0	" "
1514	0.06	1.12	0.03	1.70	5.48	26.6	108.4	0.45/5.7	25.2	44.8	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1515	SAMPLING ENDED AT: 1535
PUMP OR TUBING DEPTH IN WELL (feet): 3.25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-25	3	PE	150 mL	NONE	-	*	PFAS	APP	~125
"	2	AG	500mL	—	-	*	PAH	"	~125
"	2	AG	500mL	H2SO4	-	*	TRPH	"	~125
"	2	CG	40mL	HCL	-	*	VOC	"	~125
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-35	SAMPLE ID: DEPMW-35	DATE: 4/ 5 /22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.25	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)
= (12 feet – 2.25 feet) X 0.02 gallons/foot = 0.20 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	PURGING INITIATED AT: 0840	PURGING ENDED AT: 0904	TOTAL VOLUME PURGED (gallons): 0.96

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0900	0.80	0.80	0.04	2.55	5.76	21.6	339.5	0.41 / 4.6	128	-139.4	BROWN/NONE
0902	0.08	0.88	0.04	2.55	5.76	21.6	341.9	0.33 / 3.7	129	-141.8	" "
0904	0.08	0.96	0.04	2.55	5.77	21.7	344.9	0.31 / 3.5	125	-142.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT: 0910
PUMP OR TUBING DEPTH IN WELL (feet): 4.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-35	3	PE	150 mL	NONE	-	*	PFAS	APP	~150
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-45	SAMPLE ID: DEPMW-45	DATE: 4/5/22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 7 feet	STATIC DEPTH TO WATER (feet): 1.68	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)
= (17 feet – 1.68 feet) X 0.02 gallons/foot = 0.21 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	PURGING INITIATED AT: 0945	PURGING ENDED AT: 1006	TOTAL VOLUME PURGED (gallons): 1.05

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1000	0.75	0.75	0.05	2.05	6.61	24.3	354.4	0.26 / 3.1	23.0	-201.9	CLEAR/NONE
1002	0.10	0.85	0.05	2.05	6.57	24.3	354.8	0.24 / 2.9	19.3	-202.4	" "
1004	0.10	0.95	0.05	2.05	6.57	24.3	354.2	0.23 / 2.8	23.2	-201.7	" "
1006	0.10	1.05	0.05	2.05	6.57	24.2	352.1	0.22 / 2.7	16.4	-213.7	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1007	SAMPLING ENDED AT: 1012
PUMP OR TUBING DEPTH IN WELL (feet): 3.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-45	3.2	PE	150 mL	NONE	-	*	PFAS	APP	~200
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY) (53)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEP MW-55	SAMPLE ID: DEP MW-55	DATE: 4/ 6 /22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 1.92	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)
= (12 feet – 1.92 feet) X 0.02 gallons/foot = 0.21 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	PURGING INITIATED AT: 1614	PURGING ENDED AT: 1628	TOTAL VOLUME PURGED (gallons): 0.84

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1624	0.60	0.60	0.06	2.17	6.21	22.9	370.2	0.34/4.1	15.7	-7.0	CLEAR/NONE
1626	0.12	0.72	0.46	2.17	6.21	22.9	370.8	0.35/4.1	12.6	-8.2	" "
1628	0.12	0.84	0.46	2.17	6.22	22.9	371.3	0.36/4.3	11.4	-9.4	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1629	SAMPLING ENDED AT: 1634
PUMP OR TUBING DEPTH IN WELL (feet): 3.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEP MW 55	2	PE	150 mL	NONE	-	*	PFAS	APP	~225
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL
WELL NO: DEPMW-65	SAMPLE ID: DEPMW-65
DATE: 4/4/22	

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 1.68	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)
= (12 feet – 1.68 feet) X 0.02 gallons/foot = 0.21 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	PURGING INITIATED AT: 1450	PURGING ENDED AT: 1515	TOTAL VOLUME PURGED (gallons): 0.66

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1505	0.40	0.40	0.026	1.94	5.94	21.6	369.0	0.21 / 2.4	94.8	-217.6	Good/none
1507	0.052	0.452	0.026	1.94	5.94	21.5	367.8	0.21 / 2.3	73.5	-231.8	" "
1509	0.052	0.504	0.026	1.94	5.93	21.4	366.3	0.18 / 2.1	69.4	-233.0	" "
1511	0.052	0.556	0.026	1.94	5.94	21.4	365.8	0.18 / 2.0	56.0	-235.9	" "
1513	0.052	0.608	0.026	1.94	5.94	21.4	366.0	0.19 / 2.1	51.2	-239.4	" "
1515	0.052	0.660	0.026	1.94	5.94	21.5	365.8	0.18 / 2.1	53.8	-240.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1516	SAMPLING ENDED AT: 1521
PUMP OR TUBING DEPTH IN WELL (feet): 3.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW 65	3	PE	150 mL	NONE	-	*	PFAS	APP	~100
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-7S	SAMPLE ID: DEPMW-7S	DATE: 4/ 4 /22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 2.35	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)
= (12 feet – 2.35 feet) X 0.02 gallons/foot = 0.20 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 4.0	PURGING INITIATED AT: 1418	PURGING ENDED AT: 1434	TOTAL VOLUME PURGED (gallons): 0.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1428	0.25	0.25	0.025	2.55	5.46	22.1	406.8	0.39/4.4	11.3	-221.8	CLEAR/NONE
1430	0.05	0.30	0.025	2.55	5.49	22.1	413.6	0.34/3.9	16.1	-205.3	" "
1432	0.05	0.35	0.025	2.55	5.53	22.1	418.6	0.33/3.8	18.9	-193.0	" "
1434	0.05	0.40	0.025	2.55	5.52	22.1	416.2	0.34/3.8	20.1	-199.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1446
PUMP OR TUBING DEPTH IN WELL (feet): 4.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-7S	3	PE	150 mL	NONE	-	*	PFAS	APP	~100
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEP MW-85	SAMPLE ID: DEP MW-85	DATE: 4/ 7 /22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): ~~2.02~~ 1.33 (SR)	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)
= (12 feet – 2.02 feet) X 0.02 gallons/foot = ~~0.20~~ 0.22 (SR) gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 3.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 3.0	PURGING INITIATED AT: 1258	PURGING ENDED AT: 1319	TOTAL VOLUME PURGED (gallons) 0.91

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1315	0.75	0.75	0.04	1.51	6.33	24.9	361.5	0.39/4.7	18.2	-133.1	CLEAR/NONE
1317	0.08	0.83	0.04	1.51	6.33	24.8	360.6	0.37/4.5	16.0	-133.9	" "
1319	0.08	0.91	0.04	1.51	6.33	24.9	362.3	036/4.4	13.3	-133.9	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1326	SAMPLING ENDED AT: 1332
PUMP OR TUBING DEPTH IN WELL (feet): 3.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEP MW 85	4	PE	150 mL	NONE	-	*	PFAS	APP	~150
DUP 01	2	AG	500 mL	—	-	*	PAH	"	~150
"	2	AG	500 mL	H_2SO_4	-	*	TRPH	"	~150
"	2	CG	40 mL	HCL	-	*	VOC	"	~150
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
DUP COLLECTED (PFAS)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-9S	SAMPLE ID: DEPMW-9S	DATE: 4/ 4 /22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 0.76	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)
= (12 feet – 0.76 feet) X 0.02 gallons/foot = 0.23 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 2.5	PURGING INITIATED AT: 1350	PURGING ENDED AT: 1404	TOTAL VOLUME PURGED (gallons): 0.43

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1358	0.25	0.25	0.03	0.93	6.30	24.2	330.7	0.54 / 6.3	22.9	-65.9	clear/none
1400	0.06	0.31	0.03	0.93	6.30	24.1	330.9	0.48 / 5.7	19.9	-75.4	" "
1402	0.06	0.37	0.03	0.93	6.29	24.1	331.2	0.42 / 5.0	17.4	-82.0	" "
1404	0.06	0.43	0.03	0.93	6.30	24.0	331.3	0.38 / 4.5	15.1	-84.5	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1410
PUMP OR TUBING DEPTH IN WELL (feet): 2.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-9S	2	PE	150 mL	NONE	-	*	PFAS	APP	~115
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEP MW-10S	SAMPLE ID:	DATE: 4/ 4 /22

PURGING DATA

WELL DIAMETER (inches): 3/4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 4.74	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)
= (12 feet – 4.74 feet) X 0.02 gallons/foot = 0.15 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	PURGING INITIATED AT: 1314	PURGING ENDED AT: 1335	TOTAL VOLUME PURGED (gallons): 0.68

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1329	0.50	0.50	0.03	5.04	5.52	25.1	175.1	1.24 / 15.0	90.5	22.7	LIGHT/PALE
1331	0.06	0.56	0.03	5.04	5.53	25.1	178.1	0.81 / 9.8	96.8	21.5	" "
1333	0.06	0.62	0.03	5.04	5.54	25.1	178.8	0.69 / 8.3	99.2	21.3	" "
1335	0.06	0.68	0.03	5.04	5.54	25.1	179.4	0.61 / 7.4	101.3	20.8	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1336	SAMPLING ENDED AT: 1341
PUMP OR TUBING DEPTH IN WELL (feet): 6.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-10S	3	PE	150 mL	NONE	-	*	PFAS	APP	~115
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-2D	SAMPLE ID: FSCJ-TMW-2D	DATE: 4/7/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 39 feet to 49 feet	STATIC DEPTH TO WATER (feet): 5.19	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)
= (49 feet – 5.19 feet) X 0.16 gallons/foot = 7.01 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 9.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27.5	PURGING INITIATED AT: 0829	PURGING ENDED AT: 1025	TOTAL VOLUME PURGED (gallons): 11.60

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0949	8.0	8.0	0.10	26.25	8.83	23.1	430.4	0.41 / 4.8	1.86	-116.1	CLEAR/NONE
1007	1.80	9.80	0.10	26.25	8.79	23.2	439.8	0.96 / 11.0	1.00	-139.1	" "
1025	1.80	11.60	0.10	26.25	8.65	23.3	442.1	0.29 / 3.5	1.01	-112.4	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1026	SAMPLING ENDED AT: 1038
PUMP OR TUBING DEPTH IN WELL (feet): 27.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ-TMW-2D	2	PE	150 mL	NONE	-	*	PFAS	APP	~400
"	2	AG	500mL	-	-	*	PAH	"	~400
"	2	AG	500 mL	H2SO4	-	*	TRPC	"	~400
"	2	CG	40mL	HCL	-	*	DOC	"	~400
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FXJ-TMW-4DR	SAMPLE ID: FXJ-TMW-4DR	DATE: 4/6/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 55 feet to 60 feet	STATIC DEPTH TO WATER (feet): 6.89	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)
= (60 feet – 6.89 feet) X 0.16 gallons/foot = 8.50 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.75	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 14.0	PURGING INITIATED AT: 0938	PURGING ENDED AT: 1054	TOTAL VOLUME PURGED (gallons): 15.2

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1021	8.60	8.60	0.20	12.89	7.85	24.3	560	1.18 / 14.0	14.5	-76.5	CLEAR/BAKE
1037	2.20	10.80	0.20	12.89	7.50	24.1	599	0.27 / 3.3	11.4	-89.8	" "
1043	2.20	13.0	0.20	12.89	7.52	24.1	605	0.28 / 3.2	16.9	-89.9	" "
1054	2.20	15.2	0.20	12.89	7.49	24.1	621	0.27 / 3.1	16.5	-87.2	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1055	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 14.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
FXJTMW 4DR	2	PE	150 mL	NONE	-	*	PFAS	APP	~800
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: FSCJ-TMW-60	SAMPLE ID: FSCJ-TMW-60	DATE: 4/ 5 /22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 50 feet to 60 feet	STATIC DEPTH TO WATER (feet): 4.79	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)
= (60 feet – 4.79 feet) X 0.16 gallons/foot = 8.84 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17.0	PURGING INITIATED AT: 1152	PURGING ENDED AT: 1227	TOTAL VOLUME PURGED (gallons): 12.22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1203	11.5	11.5	0.18	15.31	7.34	23.4	562	0.28/3.3	98.3	-129.4	CLOUDY/BROWN
1215	0.36	11.86	0.18	15.31	7.35	23.5	573	0.17/2.0	99.4	-131.3	" "
1227	0.86	12.22	0.18	15.31	7.30	23.5	567	0.69/2.2	89.4	-111.3	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1228	SAMPLING ENDED AT: 1233
PUMP OR TUBING DEPTH IN WELL (feet): 17.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
FSCJ TMW 60	3	PE	150 mL	NONE	-	*	PFAS	APP	~700
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
3 PFAS BOTTLES (HIGH TURBIDITY)

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-1D	SAMPLE ID: DEPMW1D	DATE: 4/ 7 /22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 40 feet to 50 feet	STATIC DEPTH TO WATER (feet): 4.62	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)
= (50 feet – 4.62 feet) X 0.16 gallons/foot = 7.27 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.5	PURGING INITIATED AT: 1256	PURGING ENDED AT: 1340	TOTAL VOLUME PURGED (gallons): 12.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1326	8.50	8.50	0.29	5.72	7.05	23.8	752	0.17 / 2.1	5.40	-126.6	CLEAR/NONE
1333	2.0	10.5	0.29	5.72	7.10	23.7	751	0.17 / 2.1	4.22	-138.4	" "
1340	2.0	12.5	0.29	5.72	7.15	23.7	753	0.17/2.1	1.77	-131.8	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1341	SAMPLING ENDED AT: 1346
PUMP OR TUBING DEPTH IN WELL (feet): 6.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
DEPMW-1D	4	PE	150 mL	NONE	-	*	PFAS	APP	~100
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
MS/MSD COLLECTED

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-2D	SAMPLE ID: DEPMW-2D	DATE: 4/7/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 39 feet to 49 feet	STATIC DEPTH TO WATER (feet): 5.94	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)
= (49 feet – 5.94 feet) X 0.16 gallons/foot = 6.89 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 1434	PURGING ENDED AT: 1504	TOTAL VOLUME PURGED (gallons): 12.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1454	8.0	8.0	0.4	7.47	7.02	24.3	796	0.50 / 6.1	2.83	-76.1	CLEAR/none
1459	2.0	10	0.4	7.47	7.03	24.3	796	0.22 / 2.7	4.35	-89.7	" "
1504	2.0	12	0.4	7.47	7.04	24.3	793	0.19 / 2.2	5.20	-96.3	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1505	SAMPLING ENDED AT: 1510
PUMP OR TUBING DEPTH IN WELL (feet): 8.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-2D	2	PE	150 mL	NONE	-	*	PFAS	APP	~500
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-3D	SAMPLE ID: DEPMW-3D	DATE: 4/5/22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 39 feet to 49 feet	STATIC DEPTH TO WATER (feet): 6.15	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)
= (49 feet − 6.15 feet) X 0.16 gallons/foot = 6.86 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 9.5	PURGING INITIATED AT: 0845	PURGING ENDED AT: 0919	TOTAL VOLUME PURGED (gallons): 11.22

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
0907	7.5	7.5	0.31	8.25	7.62	23.4	698	0.20 / 2.4	9.76	-305.6	CLEAR/FREE
0913	1.86	9.36	0.31	8.25	7.62	23.4	700	0.19 / 2.2	7.84	-334.2	" "
0919	1.86	11.22	0.31	8.25	7.62	23.4	701	0.17 / 2.0	7.21	-348.7	" "
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0920	SAMPLING ENDED AT: 0930
PUMP OR TUBING DEPTH IN WELL (feet): 9.5	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW 3D	2	PE	150 mL	NONE	-	*	PFAS	APP	~100
"	2	PE	150mL	-	-	*	PFAS	"	~100
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
DUP COLLECTED

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: DEPMW-4D	SAMPLE ID: DEPMW-4D	DATE: 4/ 5 /22

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 39.5 feet to 49.5 feet	STATIC DEPTH TO WATER (feet): 5.30	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)
= (49.5 feet − 5.30 feet) X 0.16 gallons/foot = 7.08 gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 7.0	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.0	PURGING INITIATED AT: 0947	PURGING ENDED AT: 1031	TOTAL VOLUME PURGED (gallons): 11.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1017	7.5	7.5	0.25	8.30	7.42	24.4	671	0.20 / 2.5	11.6	-207.3	CLEAR/NONE
1024	1.75	9.25	0.25	8.30	7.41	24.4	673	0.20 / 2.4	9.92	-198	" "
1031	1.75	11.0	0.25	8.30	7.41	24.3	669	0.20 / 2.4	7.54	-205	" "
								/			
								/			
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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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1032	SAMPLING ENDED AT: 1037
PUMP OR TUBING DEPTH IN WELL (feet): 10.0	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
DEPMW-4D	2	PE	150 mL	NONE	-	*	PFAS	APP	~150
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: well 1	SAMPLE ID: well 1	DATE: 4/ 5 /22

PURGING DATA

WELL DIAMETER (inches): —	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: ' feet to — feet	STATIC DEPTH TO WATER (feet): —	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)
= (feet – feet) X gallons/foot = gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): —

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1434	—	—	—	—	7.56	24.6	1493	0.73 9.2	0.68	-185.8	
								/			
								/			
								/			
								/			
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								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1437
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
well 1	2	PE	150 mL	NONE	-	*	PFAS	APP	~1500
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
well runs continuously
APPEARS TO HAVE TEFLON TAPE UNDER PUMP & FITTING, PURGE 30 G

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: WELL 5	SAMPLE ID: WELL 5	DATE: 4/5/22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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)
= (feet – feet) X gallons/foot = – gallons

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

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
–	–	–	–	–

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1344	–	–	–	–	7.69	25.1	1273	2.16 / 26.3	4.40	-162.7	CLEAR/NONE
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1345	SAMPLING ENDED AT: 1347
PUMP OR TUBING DEPTH IN WELL (feet): –	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
WELL5	2	PE	150 mL	NONE	-	*	PFAS	APP	~1500
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
TEFLON TAPE ON FITTINGS, WELL RESTING SINCE 11 AM, PURGE 30 G.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: WELL 6	SAMPLE ID: WELL 6	DATE: 4/5 /22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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)
= (feet – feet) X gallons/foot = gallons

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

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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1414	–	–	–	–	7.87	24.9	705	4.05 49.1	1.38	453.6	CLEAR/ODOR
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1415	SAMPLING ENDED AT: 1417
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
WELL 6	2	PE	150 mL	NONE	-	*	PFAS	APP	~1500
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
TEFLON TAPE AT FITTINGS, WELL PUMPS CONTINUOUSLY, PURGE 30 G

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: FIRE ACADEMY OF THE SOUTH	SITE LOCATION: JACKSONVILLE, FL	
WELL NO: WELL 7	SAMPLE ID: WELL 7	DATE: 4/5/22

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	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)
= (feet – feet) X gallons/foot = gallons

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

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

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L and % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ODOR (describe)
1404					7.62	23.8	1679	2.58/30.9	0.86	-157.6	CLEAR/ODOR
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			
								/			

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

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY Golder Associates: H.BROOKS/GOLDER S.SIDER/GOLDER	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1405	SAMPLING ENDED AT: 1407
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y [N] Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y [N]	TUBING Y [N] (replaced)	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
WELL 7	2	PE	150 mL	NONE	-	*	PFAS	APP	1500
						*			
						*			
						*			
						*			
						*			

REMARKS: * All samples were put in a cooler with ice and the PH is checked in the lab.
TEFLON TAPE AT FITTINGS, WELL RUNS CONTINUOUSLY, PURGE 30 GAL

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **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)
"J" = Indicates that the calibration result for the parameter of concern was outside of the acceptable criteria for standard range.

GOLDER

Field Instrument Dissolved Oxygen & Oxidation-Reduction Potential Calibration Records

INSTRUMENT (MAKE/MODEL NO.) *YSI* **INSTRUMENT NO.** Pro-05

STANDARD INFORMATION

Project Number: GL21470834A **Project Name:** FIRE ACADEMY OF THE SOUTH

Standard Vendor: *GEOTECH*

Prepared Date: *NA* **Where Prepared:** NA

Grade: *N/A* **DO Units:** *mg/L* **OR Units:** *mV*

ORP Standard: *220@25 °C* Lot # 1GL527 Exp: Date SEP 2022 Pur. Date: APR 2022

DO Standard *Air Calibration Chamber in Air (Table FS 2200-2)*

Standard

Standard

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	CHART 100% VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/4/22	0720	21.2	8.88	9.08	0.3	P	Y	(Init) Cont Final	SS
4/5/22	0710	19.9	9.11	9.27	0.3	P	Y	Init (Cont) Final	SS
4/6/22	0645	20.1	9.07	9.22	0.3	P	Y	Init (Cont) Final	SS
4/7/22	0647	20.1	9.07	9.18	0.3	P	Y	Init (Cont) Final	SS
4/8/22	0740	20.2	9.05	9.09	0.3	P	Y	Init (Cont) Final	SS
4/8/22	1215	21.2	8.88	9.05	0.3	P	Y	Init Cont (Final)	SS
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
					0.3			Init Cont Final	
ORP									
4/4/22	0725	21.4	229	229.2	10 mV	P	Y	(Init) Cont Final	SS
4/5/22	0712	21.2	229	229.6	10 mV	P	Y	Init (Cont) Final	SS
4/6/22	0647	21.2	229	229.8	10 mV	P	Y	Init (Cont) Final	SS
4/7/22	0649	21.3	229	228.9	10 mV	P	Y	Init (Cont) Final	SS
4/8/22	0742	21.1	225	227.4	10 mV	P	Y	Init (Cont) Final	SS
4/8/22	1217	21.3	229	228.7	10 mV	P	Y	Init Cont (Final)	SS
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	
					10 mV			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.3 mg/L of the value of appropriate calibration standard. Need to record DO readings in mg/L and use Table FS 2200-2 "Dissolved Oxygen Saturation". ORP calibration reading must be within +/- 10 mV from the theoretical redox standard value at that temperature.

GOLDER

Field Instrument pH Calibration Records

INSTRUMENT (MAKE/MODEL NO.) *YSI* **INSTRUMENT NO.** PRO-05

STANDARD INFORMATION

Project Number: 6214708834A **Project Name:** FIRE ACADEMY OF THE SOUTH

Standard Vendor: *GEOTECH*

Prepared Date: *NOV 2020* **Where Prepared:** NA

Purchase Date: SEE BELOW **Expiration Date:** *Varies* **Grade:** *N/A* **Units:** *Standard Units*

Standard *4.00 @25 °C* **Lot #** *1GF009* **Exp Date** *JUN 2023* **Purch Date** *SEP 2021*

Standard *7.00 @25 °C* **Lot #** *1GF003* **Exp Date** *JUN 2023* **Purch Date** *SEP 2021*

Standard *10.0 @25 °C* **Lot #** 1GF458 **Exp Date** JUN *2023* **Purch Date** *SEP 2021*

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/4/22	0729	21.7	7.02	6.97	0.2	P	Y	(Init) Cont Final	SS
4/4/22	0731	21.6	4.00	4.02	0.2	P	Y	(Init) Cont Final	SS
4/4/22	0732	21.6	10.05	10.13	0.2	P	Y	(Init) Cont Final	SS
4/5/22	0716	21.3	7.02	6.98	0.2	P	Y	Init (Cont) Final	SS
4/5/22	0720	21.3	4.00	4.08	0.2	P	Y	Init (Cont) Final	SS
4/5/22	0724	21.3	10.05	10.14	0.2	P	Y	Init (Cont) Final	SS
4/6/22	0657	21.4	7.02	6.99	0.2	P	Y	Init (Cont) Final	SS
4/6/22	0059	21.4	4.00	4.05	0.2	P	Y	Init (Cont) Final	SS
4/6/22	0802	21.4	10.05	10.07	0.2	P	Y	Init (Cont) Final	SS
4/7/22	0700	21.5	4.00	4.05	0.2	P	Y	Init (Cont) Final	SS
4/7/22	0703	21.5	7.02	7.08	0.2	P	Y	Init (Cont) Final	SS
4/7/22	0705	21.4	10.05	10.12	0.2	P	Y	Init (Cont) Final	SS
4/8/22	0732	21.5	4.00	4.10	0.2	P	Y	Init (Cont) Final	SS
4/8/22	0735	21.5	7.02	6.89	0.2	P	Y	Init (Cont) Final	SS
4/8/22	0737	21.6	10.05	9.89	0.2	P	Y	Init (Cont) Final	SS
4/8/22	1219	21.6	7.02	6.96	0.2	P	Y	Init Cont (Final)	SS
4/8/22	1222	21.6	4.00	4.05	0.2	P	Y	Init Cont (Final)	SS
4/8/22	1225	21.7	10.05	10.13	0.2	P	Y	Init Cont (Final)	SS
					0.2			Init Cont Final	
					0.2			Init Cont Final	
					0.2			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 0.2 pH units of the value of appropriate calibration standard.

GOLDER

Field Instrument Conductivity Calibration Records

INSTRUMENT (MAKE/MODEL NO.) *YSI* **INSTRUMENT NO.** PRO-05

STANDARD INFORMATION

Project Number: 6L2470234A **Project Name:** FIRE ACADEMY OF THE SOUTH

Standard Vendor: *Geotech*

Prepared Date: *NA* **Where Prepared:** *NA*

Grade: *N/A* **Units:** *umhos/uS-cm*

Standard *200 @25 °C* Lot # 1GE217 Exp Date May 2022 Pur Date Apr 2021

Standard *1000@25 °C* Lot # 1GF443 Exp Date Jun 2022 Pur Date Apr 2021

Standard *2000@25 °C* Lot # 1GE871 Exp Date Feb 2022 Pur Date Jun 2021

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C°	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/4/22	0735	21.5	200	208.1	5%	P	Y	(Init) Cont Final	SS
4/4/22	0737	21.6	1,000	1010	5%	P	Y	(Init) Cont Final	SS
4/4/22	0739	21.6	2,000	2010	5%	P	Y	(Init) Cont Final	SS
4/5/22	0730	21.3	200	209.2	5%	P	Y	Init (Cont) Final	SS
4/5/22	0733	21.2	1,000	1006	5%	P	Y	Init (Cont) Final	SS
4/5/22	0736	21.3	2,000	1985	5%	P	Y	Init (Cont) Final	SS
4/6/22	0649	21.2	200	208.7	5%	P	Y	Init (Cont) Final	SS
4/6/22	0652	21.3	1,000	1009	5%	P	Y	Init (Cont) Final	SS
4/6/22	0655	21.3	2,000	1988	5%	P	Y	Init (Cont) Final	SS
4/7/22	0652	21.5	200	207.1	5%	P	Y	Init (Cont) Final	SS
4/7/22	0655	21.5	1,000	1985	5%	P	Y	Init (Cont) Final	SS
4/7/22	0658	21.4	2,000	2004	5%	P	Y	Init (Cont) Final	SS
4/8/22	0745	21.2	200	207.5	5%	P	Y	Init (Cont) Final	SS
4/8/22	0747	21.2	1,000	1020	5%	P	Y	Init (Cont) Final	SS
4/8/22	0749	21.2	2,000	2011	5%	P	Y	Init (Cont) Final	SS
4/8/22	1227	21.6	200	206.1	5%	P	Y	Init Cont (Final)	SS
4/8/22	1230	21.7	1,000	1009	5%	P	Y	Init Cont (Final)	SS
4/8/22	1232	21.6	2,000	2022	5%	P	Y	Init Cont (Final)	SS
			200		5%			Init Cont Final	
			1,000		5%			Init Cont Final	
			2,000		5%			Init Cont Final	

Acceptable calibration check is if the meter reads within +/- 5% of the appropriate calibration standard.

Note: Standards and instrument response readings are corrected to 25°C.

GOLDER

Field Instrument Turbidity Calibration Records

INSTRUMENT (MAKE/MODEL NO.) *HACH* **INSTRUMENT NO.** HT-6

Project Number: GL2147083UA **Project Name:** FIRE ACADEMY OF THE SOUTH

Standard Vendor: *HACH*

Prepared Date: *NA* **Where Prepared:** NA

Purchase Date: *April 2021* **Expiration Date:** *May 2022* **Lot Number:** *SEE BELOW*

Units:Nephelometric Turbidity Unit

Standard 10 Nephelometric TurbidityUnit Exp Date May 2022 LOT# A1050

Standard 20 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1042

Standard 100 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1049

Standard 800 Nephelometric Turbidity Unit Exp Date May 2022 LOT# A1050

DATE (mm/dd/yy)	TIME (hr:min)	TEMP DEG C	STD VALUE	INSTRUMENT RESPONSE	% DEV	PASS/ FAIL	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
4/4/22	0143	-	5.37	5.36	10 %	P	Y	(Init) Cont Final	SS
4/4/22	0145	-	56.4	56.2	6.5 %	P	Y	(Init) Cont Final	SS
4/4/22	0147	-	568	572	5 %	P	Y	(Init) Cont Final	SS
4/5/22	0139	-	5.37	5.36	10 %	P	Y	Init (Cont) Final	SS
4/5/22	0140	-	56.4	56.1	6.5 %	P	Y	Init (Cont) Final	SS
4/5/22	0141	-	568	570	5 %	P	Y	Init (Cont) Final	SS
4/6/22	0105	-	5.37	5.34	10 %	P	Y	Init (Cont) Final	SS
4/6/22	0107	-	56.4	56.9	6.5 %	P	Y	Init (Cont) Final	SS
4/6/22	0109	-	568	669	5 %	P	Y	Init (Cont) Final	SS
4/7/22	0107	-	5.37	5.38	10 %	P	Y	Init (Cont) Final	SS
4/7/22	0109	-	56.4	57.2	6.5 %	P	Y	Init (Cont) Final	SS
4/7/22	0111	-	568	570	5 %	P	Y	Init (Cont) Final	SS
4/8/22	0751	-	5.37	5.35	10 %	P	Y	Init (Cont) Final	SS
4/8/22	0752	-	56.4	57.4	6.5 %	P	Y	Init (Cont) Final	SS
4/8/22	0753	-	568	571	5 %	P	Y	Init (Cont) Final	SS
4/8/22	1235	-	5.37	5.39	10 %	P	Y	Init Cont (Final)	SS
4/8/22	1236	-	56.4	57.2	6.5 %	P	Y	Init Cont (Final)	SS
4/8/22	1237	-	568	571	5 %	P	Y	Init Cont (Final)	SS
		-			10 %			Init Cont Final	
		-			6.5 %			Init Cont Final	
		-			5 %			Init Cont Final	

Calibration values for turbidity needs to be within 10% of the standard for values between 0.1-10 NTU; 8% for values between 11-40 NTU; 6.5% for values between 41-100 NTU and 5% for values >100 NTU.

Daily PFAS Sampling Checklist

Date: 4/4/22

Site Name: FIRE ACADEMY OF THE SOUTH

Weather (*temperature/precipitation*): 80° F / SUN

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:

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

Notes:

Field Team Leader Name (Print): STEPHEN SIDER

Field Team Leader Signature: [signature]

Date/Time: 4/4/22 0915

Daily PFAS Sampling Checklist

Date: 4/5/22

Site Name: FIVE ACADEMY OF THE SOUTH

Weather (*temperature/precipitation*): 82°F SUN

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): STEPHEN SIDER

Field Team Leader Signature: [signature]

Date/Time: 4/5/22 0830

Daily PFAS Sampling Checklist

Date: 4/6/22

Site Name: FIRE ACADEMY OF THE SOUTH

Weather (*temperature/precipitation*): 80° F SW

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): STEPHEN SIDER

Field Team Leader Signature:

Date/Time: 4/6/22 0800

Daily PFAS Sampling Checklist

Date: 4/7/22

Site Name: FIRE ACADEMY OF THE SOUTH

Weather (*temperature/precipitation*): 80° F SUN W/ SCATTERED T-STORMS

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): STEPHEN SIDER

Field Team Leader Signature: [signature]

Date/Time: 4/7/22 0800

Daily PFAS Sampling Checklist

Date: 4/8/22

Site Name: FIRE ACADEMY OF THE SOUTH

Weather (*temperature/precipitation*): 80° F SUN

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): STEPHEN SIDER

Field Team Leader Signature: [signature] 0830

Date/Time: 4/8/22 0830

State of Florida Department of Environmental Protection

Chain of Custody Record

Page_____ of _____

Project Name					# BOTTLES	Analyses									
FIRE ACADEMY OF THE SOUTH - FSCJ, ERIL - 7421						EPA 8321 - PFAS									
Sampled by: J. SIDDALL / H. BROOKS			Module#												
RQ# RQ - 2021 - 11 - 15 - 48		Site Name FIRE ACADEMY OF THE SOUTH - FSCJ													
Field ID	Matrix	Date	Time ET ☒ CT ☐	Bottle Group											Comments
FSCJ-TMW-6S	GW	4/5/22	1113	A	2	X									
FSCJ-TMW-14S	GW	4/5/22	1202	A	2	X									
DEPMW-1S	GW	4/4/22	1545	A	2	X									
DEPMW-3S	GW	4/5/22	0905	A	3	X									
DEPMW-4S	GW	4/5/22	1007	A	2	X									
DEPMW-6S	GW	4/4/22	1516	A	3	X									
DEPMW-7S	GW	4/4/22	1435	A	3	X									
DEPMW-9S	GW	4/4/22	1405	A	2	X									
DEP MW-10S	GW	4/4/22	1336	A	3	X									
FSCJ-TMW-6D	GW	4/5/22	1228	A	3	X									
DEPMW-3D	GW	4/5/22	0920	A	2 ~~4~~ (5)	X									~~DUP~~ (5)
DUP-DEPMW-3D	GW	4/5/22	0920	A	2	X									

Relinquished by:	Date/Time	Method of Dispatch	Received by:	Date/Time
[signature]	4/6/22 1200	Hand	[signature]	4/6/22
Relinquished by:	Date/Time	Method of Dispatch	Received by:	Date/Time
Relinquished by:	Date/Time	Method of Dispatch	Received by:	Date/Time

Remarks:

Preservative Sticker 1	Preservative Sticker 2	Preservative Sticker 3	Preservative Sticker 4

State of Florida Department of Environmental Protection

Chain of Custody Record

Page_____ of _____

Project Name					# BOTTLES	Analyses									
FIRE ACADEMY OF THE SOUTH - FSJ, EQAC-7421						EPA 8321 - PFAS									
Sampled by: S. SIDER / H. BROOKS			Module#												
RQ# RQ-2021-11-15-48	Site Name FIRE ACADEMY OF THE SOUTH - FSJ														
Field ID	Matrix	Date	Time ET ☐ CT ☐	Bottle Group											Comments
DEPMW-4D	GW	4/5/22	1032	A	2	x									
WELL 1	GW	4/5/22	1435	A	2	x									
WELL 5	GW	4/5/22	1345	A	2	x									
WELL 6	GW	4/5/22	1415	A	2	x									
WELL 7	GW	4/5/22	1405	A	2	x									

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[signature] / GAUDER	4/6/22 1200	Hand	[signature]	04/06/22
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Remarks:

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State of Florida Department of Environmental Protection

Chain of Custody Record

Project Name: FIRE ACADEMY OF THE SOUTH - FSCJ, EDC-7421

Sampled by: S. SIDER/H. BROOKS

Module#:

RQ#: RQ-2021-11-15-48

Site Name: FIRE ACADEMY OF THE SOUTH - FSCJ

Time: ET ☑ CT ☐

Field ID	Matrix	Date	Time	Bottle Group	# BOTTLES	EPA 8321 - PFAS	8260 - VOC	8270 - PAH	FL-PRO - TRPH	Comments
FSCJ-TMW-1S	GW	4/7/22	1133	A	2	x				
FSCJ-TMW-2SR		4/7/22	0853	A/F	8	x	x	x	x	
FSCJ-TMW-3S		4/7/22	1035	A/F	8	x	x	x	x	
FSCJ-TMW-4SR		4/6/22	0946	A	2	x				
FSCJ-TMW-7SR		4/6/22	1028	A	2	x				
FSCJ-TMW-8S		4/6/22	1523	A	2	x				
FSCJ-TMW-9S		4/6/22	1139	A	2	x				
FSCJ-TMW-10S		4/6/22	1439	A	3	x				
FSCJ-TMW-11S		4/8/22	0908	A/F	8	x	x	x	x	
FSCJ-TMW-12S		4/8/22	0942	A/F	8	x	x	x	x	
FSCJ-TMW-13S		4/6/22	1601	A	2	x				
FSCJ-TMW-15S		4/6/22	0850	A	4	x				MS/MSD

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Relinquished by:	Date/Time	Method of Dispatch	Received by:	Date/Time

Remarks:

Preservative Sticker 1

Preservative Sticker 2

Preservative Sticker 3

Preservative Sticker 4

State of Florida Department of Environmental Protection

Chain of Custody Record

Page 2 of 3

Project Name					# Bottles	Analyses									
FIRE ACADEMY OF THE SOUTH-FSCJ, ERC_7421						EPA 8321 - PFAS	8260 - VOC	8270 - PAH	TL-AQ - TDPH						
Sampled by: S. SIDER/H. BROOKS		Module#													
RQ#: DO-2021-11-15-48	Site Name: FIRE ACADEMY OF THE SOUTH-FSCJ														
Field ID	Matrix	Date	Time ET ☑ CT ☐	Bottle Group											Comments
FSCJ-TMW-16S	GW	4/8/22	1013	A	4	x									MS/MSD
FSCJ-TMW-17S		4/8/22	1036	A/F	8	x	x	x	x						
FSCJ-TMW-18S		4/8/22	1106	A/F	8	x	x	x	x						
FSCJ-TMW-20S		4/6/22	1409	A	3	x									
DEPMW-2S		4/7/22	1515	A/F	9	x	x	x	x						
DEPMW-5S		4/6/22	1629	A	2	x									
DEPMW-8S		4/7/22	1320	A/F	8	x	x	x	x						
FSCJ-TMW-2D		4/7/22	1026	A/F	8	x	x	x	x						
FSCJ-TMW-4DR		4/6/22	1055	A	2	x									
DEPMW-1D		4/7/22	1341	A	4	x									MS/MSD
DEPMW-2D		4/7/22	1505	A	2	x									
DUP-FSCJ-TMW-4SR		4/6/22	0946	A	2	x									

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Relinquished by:	Date/Time	Method of Dispatch	Received by:	Date/Time

Remarks:

Preservative Sticker 1	Preservative Sticker 2	Preservative Sticker 3	Preservative Sticker 4

State of Florida Department of Environmental Protection

Chain of Custody Record

Project Name					# Bottles	Analyses										
FIRE ACADEMY OF THE SOUTH - FSCJ, ERIC-7421						EPA 8321 - PFAS	8260 - VOC	8270 - PAH	FL-PRO - TRPH							
Sampled by: S. SIDER / H. BROOKS		Module#														
RQ# RQ-2021-11-15-48	Site Name FIRE ACADEMY OF THE SOUTH-FSCJ															
Field ID	Matrix	Date	Time ET ☑ CT ☐	Bottle Group												Comments
DUP-FSCJ-TMW-135	GW	4/6/22	1601	A	2	x										
DUP-FSCJ-TMW-185		4/8/22	1106	A	2	x										
DEPTMW-85		4/7/22	1320	A	2	x										
EQB-PP-1		4/6/22	0910	C	2	x										
EQB-PP-2		4/7/22	1415	C/G	8	x	x	x	x							
FRB-FSCJ-TMW-85		4/6/22	1523	D	2	x										
TRIP BLANK		-	-	H	2		x									TRIP BLANK

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Relinquished by:	Date/Time	Method of Dispatch	Received by:	Date/Time
Relinquished by:	Date/Time	Method of Dispatch	Received by:	Date/Time

Remarks:

Preservative Sticker 1	Preservative Sticker 2	Preservative Sticker 3	Preservative Sticker 4