

**FINAL**

**POST MITIGATION PERFORMANCE SAMPLING REPORT**

**DEFENSE FUEL SUPPORT POINT VERONA  
NYSDEC SITE CODE 633086**

**VERONA, NEW YORK**

**PREPARED FOR:**

**DEFENSE LOGISTICS AGENCY – ENERGY  
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**PREPARED BY:**



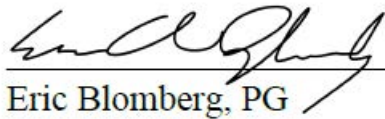
**719 Hale Street  
Beverly, MA 01915**

**FEBRUARY 2023**

**FINAL  
POST MITIGATION PERFORMANCE SAMPLING REPORT  
DEFENSE FUEL SUPPORT POINT VERONA**

**TITLE PAGE**

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Eric Blomberg, PG  
Senior Hydrogeologist

Date: 2-21-23

I, Eric Blomberg, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report (Post Mitigation Performance Sampling Report) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).



Edward Kurja, PE (MA ENV)  
Project Manager

Date: 2-21-23

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## Abbreviations/Acronyms

|        |                                                                       |
|--------|-----------------------------------------------------------------------|
| AFFF   | Aqueous Film Forming Foam                                             |
| ASTs   | Aboveground Storage Tanks                                             |
| bgs    | Below Ground Surface                                                  |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| DFSP   | Defense Fuel Support Point                                            |
| DLA-E  | Defense Logistics Agency - Energy                                     |
| DoD    | Department of Defense                                                 |
| EDR    | Environmental Database Report                                         |
| HAL    | Health Advisory Level                                                 |
| IRM    | Interim Remedial Measure                                              |
| ND     | Not Detected                                                          |
| ng/L   | Nanograms Per Liter                                                   |
| NYSDEC | New York State Department of Environmental Conservation               |
| PFAS   | Per and Polyfluoroalkyl                                               |
| PFOA   | Perfluoro-octanoic Acid                                               |
| PFOS   | Perfluoro-octane Sulfonate                                            |
| QC     | Quality Control                                                       |
| RSL    | Regional Screening Level                                              |
| TK&K   | TK&K Services                                                         |
| USEPA  | United States Environmental Protection Agency                         |
| USGS   | United States Geological Survey                                       |
| µg/kg  | Micrograms Per Kilogram                                               |

## 1.0 INTRODUCTION

This Post Mitigation Performance Sampling Report has been prepared by TK&K Services (TK&K) on behalf of the Defense Logistics Agency – Energy (DLA-E) for the former Defense Fuel Support Point (DFSP) Verona (the Site) Verona, New York (see **Figure 1**). This report describes the groundwater sampling event performed from October 27 through October 29, 2021, for per- and polyfluoroalkyl substances (PFAS), specifically perfluoro-octanoic acid (PFOA) and perfluoro-octane sulfonate (PFOS), at the Site (see **Figure 2**).

The objective of this Post Mitigation Performance Sampling Report is to satisfy the request of the New York State Department of Environmental Conservation (NYSDEC) presented in a letter dated September 4, 2019 (see **Appendix A**), to investigate the extent of groundwater contamination and determine if it is impacting Stony Creek. Groundwater results were compared to the guidance values in NYSDEC’s Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) (October 2020).

### 1.1 Site Background

DFSP Verona was constructed in 1959 as a fuel storage and transfer facility on previously undeveloped land. Historically, there have been four field constructed Aboveground Storage Tanks (ASTs) on Site that covered a significant portion of the DFSP Verona service facility (Tanks 1, 2, 3, and 4). Each of the four ASTs, the fuel loading rack, and the fuel pump house were connected to an automated firefighting foam system. DLA-E has identified that Aqueous film forming foam (AFFF) was stored and used at the DFSP from the mid-1980s through 2017. Fueling operations ceased at the facility as of September 2014 and DLA-E permanently closed the DFSP in August 2017. AFFF decommissioning activities were documented in the *DFSP Verona Aqueous Firefighting Foam System Closure Report*, TK&K Services (November 2017).

The presence of PFAS in soil and groundwater at the Site is directly related to the storage and use of AFFF. Historically, 55-gallon drums containing AFFF concentrate were used to fill two 200-gallon bladder tanks located in the Fire Foam Pump Building, which were integral to the fire suppression system. In the event of a fire, AFFF would be combined with water in the AFFF pumphouse piping before application to the fire. AFFF concentrate onsite was tested annually and if found to be degraded, it was removed and resupplied by the vendor. As part of the decommissioning of DFSP Verona, all bulk fuel storage vessels and piping have been closed and the facility no longer needs an automated fire suppression system for the fuel system. Site work to remove the AFFF foam product material and residue was performed in August 2017.

There have been two reported historical releases of AFFF at DFSP Verona. Sometime between 1988 and 1993, lightning tripped the photonic eye on Tank 1 and AFFF was released into Tank 1, and subsequently drained into Berm 1. Tank 1 was emptied through fuel separators to remove water and AFFF. Residual dike water and AFFF liquid was recovered by vacuum truck for off-

site disposal. Another AFFF release occurred in 2003 onto the concrete truck pad during a lightning event which tripped a sensor. Reportedly, AFFF was not recovered, and the liquid evaporated on the pad.

In addition to the noted releases above, periodic testing of the AFFF system by charging lines and draining the system to low point drains or the ground surface surrounding the AFFF pump house was common and may have been a significant source for releasing PFAS to the environment.

In November 2016, the Department of Defense (DoD) initiated an evaluation of the Site's drinking water for PFOA and PFOS due to prior storage and use of AFFF on site. Sampling drinking water at locations with AFFF storage has become common at DoD facilities in recent years to identify exposures to PFAS contamination. DFSP Verona groundwater is not a source of potable water or irrigation at the Site. The source of municipal water is Glenmore Reservoir on Florence Creek, located twenty miles from the facility. A drinking water sample was obtained by TK&K from the first spigot after the municipal supply line enters DFSP Verona's administrative building and analyzed via United States Environmental Protection Agency (USEPA) Method 537 for the determination of 14 PFAS compounds in drinking water. All results were below detectable laboratory limits for PFOA and PFOS at 9 and 15 nanograms per liter (ng/l), respectively. The drinking water results were provided in a report entitled *Analytical Report for Perfluorinated Compounds Sampling in Drinking Water DFSP Verona*, TK&K Services (December 2016).

In June and July 2017, DLA-E collected groundwater samples from several site monitoring wells and one soil sample near the former SPDES discharge point for the oil/water separator for laboratory analysis of PFAS. Laboratory results indicated groundwater from monitoring wells at the facility were impacted by PFAS. The highest concentrations of PFAS in groundwater were detected in monitoring wells MW-10R (1,300 nanograms per Liter (ng/L) of PFOS and 62 ng/L of PFOA) and MW-27 (670 ng/L PFOS and 16 ng/L PFOA). Both wells are located downgradient of the loading rack. PFAS concentrations were detected further downgradient in wells MW-5 (6.2 ng/L of PFOS and 92 ng/L of PFOA) and MW-9 (190 ng/L of PFOS and 18 ng/L of PFOA), located near the western fence line. PFAS concentrations diminished upgradient of the loading rack at well MW-24 (61 ng/L of PFOS and 1.8 ng/L of PFOA), but increased significantly in the furthest upgradient well, MW-13 (1,000 ng/L PFOS and 15 ng/L of PFOA). The soil sample collected to evaluate the potential for the facility's storm water to contact and transport PFAS (VER-SED-01) contained 6.2 micrograms per kilogram (µg/kg) of PFOS indicating that water passing through the storm water system likely contacted PFAS although it does not appear to be a significant ongoing transport mechanism. The results of groundwater and soil testing were provided in a report entitled *DFSP Verona PFAS Groundwater Sampling Report*, TK&K Services, (September 2017).

The NYSDEC was notified by DLA-E of the findings of the Site investigation for PFAS. NYSDEC opened Spill Number 17-08575 in response and conducted State-led private well sampling in the surrounding community for PFAS in groundwater. TK&K obtained laboratory results but no narrative report of the NYSDEC private well sampling results. Using online imaging, TK&K mapped locations of the samples collected using addresses provided on the laboratory chain of custody. Laboratory results indicated there were no impacts of PFAS or PFOA detected above the NYDEC groundwater quality standard of 10 nanograms per liter (ng/L). Of the eight private wells sampled, only one sample, located on New York Route 31 (approximately 2,400 feet to the northwest of the Site and across Stony Creek), had a detection of PFOA at 5.8 ng/L. All other private well results were Not Detected (ND) for PFAS.

A Site Characterization Work Plan for the investigation of PFAS was submitted to the NYSDEC and approved via a call with TK&K personnel on December 3, 2018. During that call, the NYSDEC requested that monitoring well (MW-10R) be re-sampled during the site characterization field work to confirm the concentration from the summer 2017 sampling event.

The Site Characterization was performed in December 2018 and January 2019 and the results were documented in the *Final Site Characterization Report*, TK&K Services, (July 2019). Fourteen of sixteen soil samples contained PFAS with the highest concentrations in soil sample SSPFAS-33 (0-2 ft.) and surface sample SSPFAS-38 (0-6 in.). These samples contained PFOS above the RSL at 185 and 184 ug/kg, respectively. SSPFAS-33 was collected adjacent to the pump house floor drain discharge pipe which daylights outside of the facility fence line. This area could have been exposed to AFFF during testing, cleaning, or refilling activities inside the AFFF Pump House. Sample SSPFAS-38 was collected immediately below the low point drain discharge pipe on the west exterior side of the AFFF pump house. This area would have received AFFF after system testing or any time system piping was charged and subsequently drained back to the AFFF pump house. Both samples have PFAS concentrations above the USEPA Regional Screening Level (RSL) calculated residential exposure limit of 126 ug/kg (185 ug/kg PFOS in SSPFAS-33 and 184 ug/kg PFOS in SSPFAS-38, respectively).

The groundwater sampling event performed in January 2019 confirmed that eight of the thirteen monitoring wells sampled had combined PFOA/PFOS concentrations which exceeded the USEPA's Health Advisory Level (HAL) of 70 ng/L. The highest concentration of combined PFOA/PFOS was detected in monitoring well MW-33, which is in an area that accepts floor drain effluent from the AFFF Pump House. The elevated levels of PFAS in groundwater may have been related to the PFAS releases in soil near the AFFF pump house where the impacted soil was acting as a continuing source of PFAS contamination.

Other findings of the January 2019 sampling event confirmed the general groundwater flow direction as northwest toward Stony Creek. Migration of PFAS in groundwater in unconsolidated material from DFSP Verona is toward the northwest and Stony Creek.

The *Final Site Characterization Report*, TK&K Services, (July 2019) was approved by the NYSDEC in a letter to DLA-E dated September 4, 2019 (see **Appendix A**). The letter indicated that subsequent investigations should be performed to investigate the extent of soil and groundwater contamination and determine if groundwater contamination is impacting Stony Creek.

In October and November 2020, an Interim Remedial Measure (IRM) was performed by DLA-E to reduce soil with PFAS concentrations above the calculated USEPA RSL of 126 ug/kg for residential exposure in the area north of the AFFF pump house. This impacted soil may have been a source of contamination to groundwater. Approximately 1,213 tons of PFAS impacted soil was excavated and properly disposed off-site. IRM activities were documented in the *Final Interim Remedial Measure Report* by TK&K Services (October 2022) that has been submitted to the NYSDEC.

Further evaluation and cleanup (if necessary) of this site will occur under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process in accordance with the Department of Defense Remediation Plan for Cleanup of Water Impacted with Perflourooctane Sulfonate or Perfluorooctanoic Acid, submitted to Congress in June 2020. Please see the attached letter from the Assistant Secretary of the Air Force (Installations, Environment and Energy to Senator Shaheen regarding a site in New Hampshire (**Appendix B**). The Air Force also owns DFSP Verona, and DLA-E is responsible for environmental closure of the site. DLA-E will continue to coordinate actions at the site with NYSDEC.

During the semi-annual groundwater monitoring event in April 2021, a total of 27 groundwater samples were collected from monitoring wells for analysis of PFAS compounds. The laboratory results indicated the highest PFOS and PFOA concentrations were in samples collected from MW-40 (PFOA at 238 ng/L and PFOS at 2,730 ng/L and MW-46 (PFOA at 202 ng/L and PFOS at 14,000 ng/L. Monitoring well MW-33R rebounded to 599 ng/L following the source removal in October 2020 but remained below the pre-IRA event level of 4,730 ng/L (November 2019). The results of this sampling event were included in the *Post Mitigation Performance Sampling Report*, TK&K Services, (September 2021) which has been provided to NYSDEC.

Section 2.0 of this report summarizes the latest semi-annual groundwater sampling event, which was performed from October 27 through October 29, 2021.

## 1.2 Surficial Geology & Hydrogeology

Soil classification performed by TK&K during this Site Characterization confirmed that there are three glacially derived unconsolidated units of variable composition, thickness, and extent at DFSP Verona. The first unit occurs across most of the site and consists of silt and clay with a trace of sand and gravel (glacial till). The second unit occurs predominantly in the southern

half of the site and consists of silt, clay, sand, and trace amounts of gravel. The third unit is highly variable in extent and consists of sand and gravel (glacial outwash). Underlying the unconsolidated glacial deposits is gray shale (bedrock) of the Clinton Group which is a fine-grained rock characterized by low permeability and low groundwater yield. Bedrock at the Site is usually highly weathered for the upper few feet; below the weathered zone is massive shale with minimal fracturing. Bedrock was encountered at 20 feet below ground surface (bgs) in the southern part of the Site and within a few feet of the surface within the wetlands of Stony Creek. Per the Remedial Investigation Report by Engineering-Science, Inc., (January 1995), three bedrock monitoring wells (MW-20D, MW-21D, and MW-22D) were to be installed in 1994 to determine if facility-related contaminants were infiltrating the shallow bedrock. However, during the installation of MW-21D, no groundwater was encountered in bedrock at 90 feet below grade (70 feet into bedrock). Due to the lack of groundwater, no samples were available for analysis and bedrock monitoring wells MW-20D and MW-21D were abandoned by grouting with a bentonite and cement mixture. The data indicates that the transport of PFAS compounds via bedrock groundwater is not expected at this Site.

Groundwater contour maps have been prepared from elevation data collected from on-site monitoring wells during previous sampling events. Historically, the direction of groundwater flow in the overburden aquifer is to the northwest toward Stony Creek. Minor variances to the groundwater flow direction occur on Site, due to man-made surface features (tank berms, swales, and impervious surfaces) and subsurface utility lines. Stony Creek is classified as Class C by the NYSDEC, with best uses listed as fishing and is considered suitable for propagation and primary and secondary contact recreation.

### **1.3 Aquifer Classification**

NYSDEC categorizes aquifer classification into two types, Primary Water Supply Aquifers and Principal Aquifers. Primary Water Supply Aquifers are defined as highly productive aquifers presently utilized as sources of water supply by major municipal systems. Principal aquifers are defined as aquifers known to be highly productive or consist of geology that suggests an abundant potential water supply but are not intensively used by major municipal systems at the present time. The NYSDEC Aquifer Mapping Program does not provide the aquifer type utilized by the town of Verona and the area is shown as unmapped according to the United States Geological Survey (USGS) New York Aquifer Viewer online resource.

The Site is located in the Lake Oneida Watershed. Regionally, the principal supply of groundwater in Oneida County occurs in glacial outwash deposits. Only about one third of county residents rely on groundwater and those residents are primarily in the western part of the County. According to the October 2018 Environmental Baseline Survey (TK&K), ten water supply wells were identified in the Environmental Database Report (EDR) within one mile of DFSP Verona including one public water supply well. There are no water supply wells on DFSP Verona, and the property is supplied with potable water from the Verona Water Authority.

## 2.0 GROUNDWATER MONITORING EVENT

TK&K performed groundwater sampling in accordance with the NYDEC approved *DFSP Verona Site Characterization Work Plan* (October 2019) and *DFSP Verona Supplemental Site Characterization Work Plan* (June 2020). Following the release of *NYSDEC's Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)* (October 2020), groundwater results were compared with the NYSDEC screening level value of 10 ng/L for PFOA or PFOS in addition to the USEPA's HAL of 70 ng/L.

### 2.1 Groundwater Sampling Activities

Groundwater sampling activities were conducted from October 27 through October 29, 2021. Prior to purging and sampling groundwater, water levels were measured from all available monitoring wells. Water level measurements and elevations are included in **Table 1**, and a groundwater elevation contour map is included (see **Figure 3**) from groundwater measurements collected on October 27, 2021.

During the October 2021 sampling event, groundwater samples were collected to further assess PFAS distribution in groundwater. Samples were collected from monitoring wells MW-2R, MW-5, MW-13, MW-24, MW-29, MW-30, MW-32, MW-33R, MW-35, MW-36, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-51, MW-53, MW-55, MW-56, MW-59, and MW-60. Sampling was performed using USEPA Region I *Low-Stress Purging/Sampling for the Collection of Groundwater Samples from Monitoring Wells* (EPASOP-GW 001). Sample collection followed PFAS-specific protocols to prevent cross contamination, per the Site Characterization Work Plan (November 2018). A peristaltic pump with new silicon and HDPE tubing for each well was used to collect one groundwater sample from each monitoring well plus two duplicate samples (MW-32DUP and MW-41DUP) and one equipment blank (Equipment Blank) was collected for quality control (QC). Low-flow groundwater sampling logs for each monitoring well are provided in **Appendix C**. All samples were collected in pre-cleaned and preserved bottle ware provided by the laboratory and packed in ice with a chain of custody record for transportation to SGS's Orlando, FL laboratory for PFAS analysis by USEPA Method 537 Modified.

### 2.2 Groundwater Sampling Results

A total of 27 groundwater samples were collected during this event plus two duplicates and one equipment blank. The well casing of MW-59 was obstructed, and MW-58, MW-61 and MW-62 were in the standing water of the wetlands, therefore these wells were not sampled. All samples contained detectable concentrations of PFAS except for MW-35. Of the monitoring wells with detectable PFAS concentrations, 20 monitoring wells had samples exceeding NYSDEC's groundwater screening level of 10 ng/L (MW-2R, MW-5, MW-13, MW-30, MW-32, MW-33R, MW-36, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-51, MW-56). Groundwater samples from wells MW-2R, MW-5, MW-13, MW-30, MW-32, MW-33R, MW-36, MW-38, MW-39, MW-40, MW-41,

MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, and MW-51 were above the USEPA's HAL of 70 ng/L. The two monitoring wells with the highest PFOS and PFOA concentrations were MW-41 (PFOA at 135 ng/L and PFOS at 4,110 ng/L) and MW-46 (PFOA at 236 ng/L and PFOS at 14,900 ng/L).

The laboratory results of the October 2021 groundwater sampling event are summarized on **Table 2** and depicted on **Figure 4**. Laboratory reports are included in **Appendix D**.

The QC samples for groundwater indicate sampling and analytical procedures were not compromised during this sampling event. The results for duplicate samples MW-32DUP and MW-41DUP were consistent with samples from MW-32 and MW-41. The equipment blank sample contained no detectable PFAS compounds, indicating no cross-contamination from sampling equipment occurred between samples.

According to the laboratory, during the first analytical run, fifteen samples had analytes over the calibration curve. The problem was corrected by the laboratory by performing a second run with adjusted dilution factors, as indicated in the lab reports. The data are considered useable for this monitoring report as results are consistent with previous groundwater sampling events and most results are significantly higher than regulatory criteria. A Data Usability Summary Report (DUSR) was not prepared as additional sampling events are planned. A DUSR will be prepared and included in the report that contains the analytical data for final delineation.

### 3.0 CONCLUSIONS

Based on the results of the groundwater sampling event performed in October 2021, the following conclusions can be made:

- During the semi-annual groundwater monitoring event in October 2021, a total of 27 groundwater samples were collected from monitoring wells for analysis of PFAS compounds.
- The two monitoring wells with the highest PFOS and PFOA concentrations were MW-41 (PFOA at 135 ng/L and PFOS at 4,110 ng/L) and MW-46 (PFOA at 236 ng/L and PFOS at 14,900 ng/L).
- Monitoring well MW-33R rebounded to 1010 ng/L following the source removal in October 2020 but remains below the pre-IRA event level of 4,730 ng/L (November 2019).
- The PFAS levels in groundwater at DFSP Verona have been delineated to the NYSDEC screening level of 10 ng/L. PFAS compounds from the Site migrate to the northwest and dissipate in the wetlands prior to Stony Creek.
- It should be noted that at the time of laboratory analysis, no federally approved analytical sampling methods for PFAS in groundwater, surface water, soil and sediment

were available. NYSDEC's Sampling, Analysis, and Assessment of Per and Polyfluoroalkyl Substances (October 2000) does provide screening levels for water. Therefore, there is only a presumption that PFAS may exceed NYSDEC's screening levels.

## **4.0 REFERENCES**

TK&K Services. Analytical Report for Perfluorinated Compounds Sampling in Drinking Water DFSP Verona, New York (December 2016).

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TK&K Services. DFSP Verona Aqueous Firefighting Foam System Closure Report (November 2017).

USEPA. Regional Screening Levels, RSL User's Guide, and RSL Calculator (May 2018).

TK&K Services. DFSP Verona Site Characterization Work Plan (November 2018).

TK&K Services. DFSP Verona Supplemental Site Characterization Work Plan (October 2019).

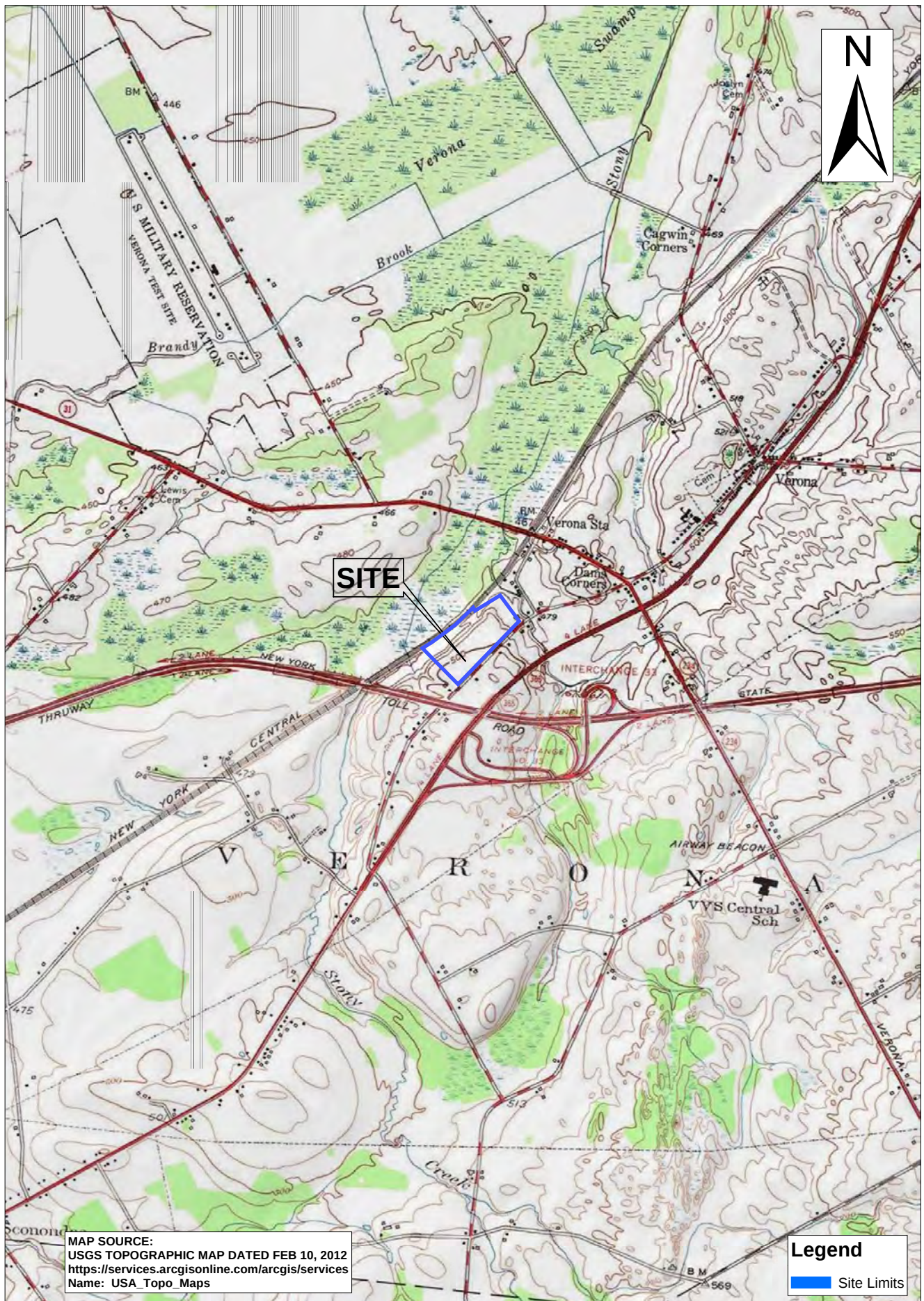
TK&K Services. DFSP Verona Supplemental Site Assessment Work Plan (June 2020).

TK&K Services. Final Supplemental Site Characterization Report (September 2022).

TK&K Services. Final Interim Remedial Measure Report (October 2022)

NYSDEC's Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) (October 2020).

## Figures



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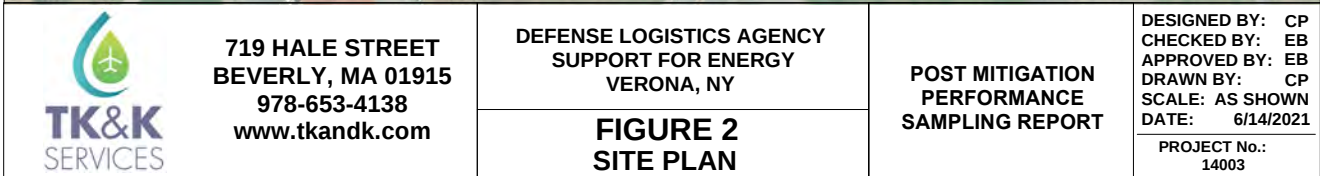
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 VERONA, NY

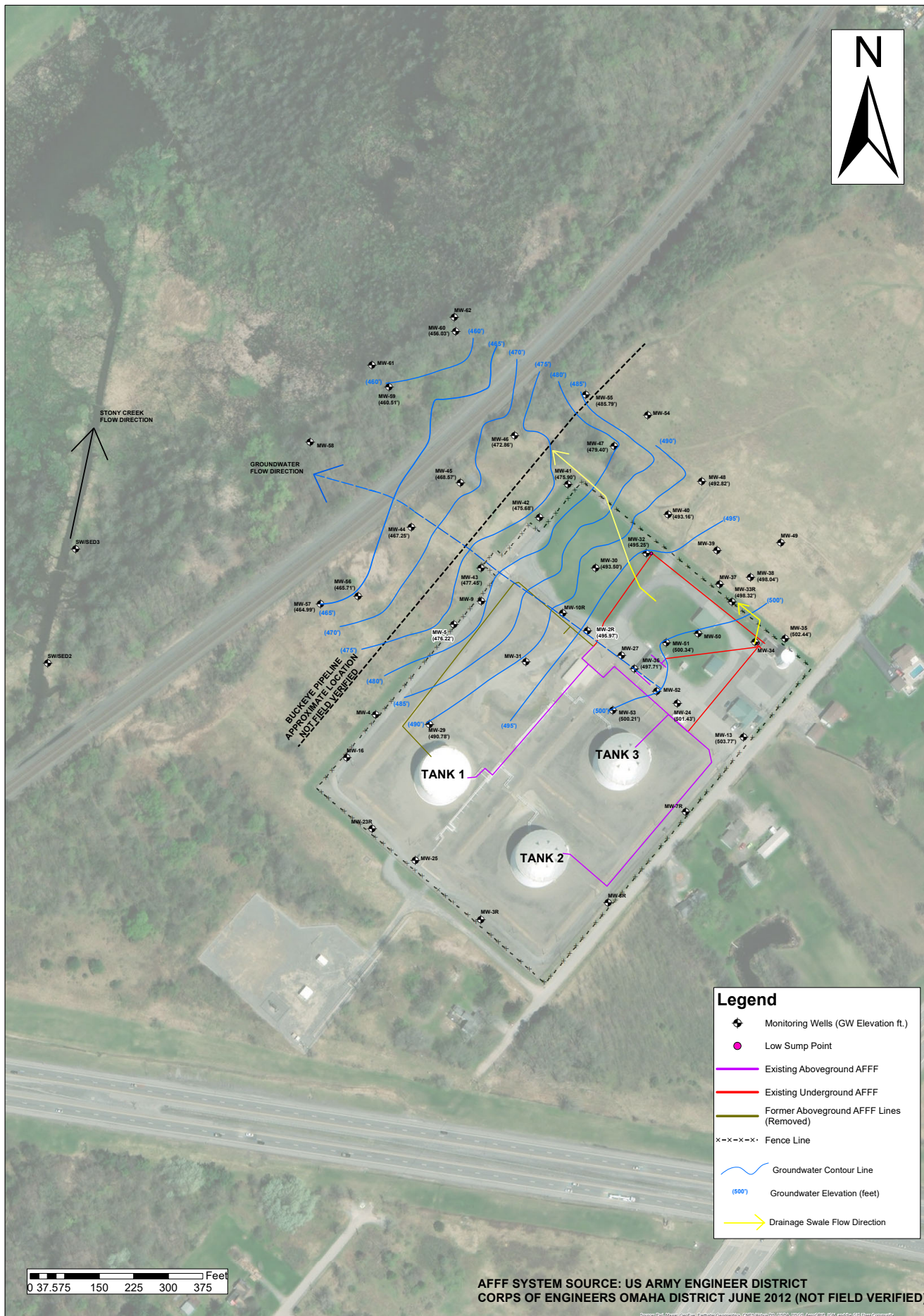
**FIGURE 1  
 SITE LOCUS MAP**

**POST MITIGATION  
 PERFORMANCE  
 SAMPLING REPORT**

DESIGNED BY: SC  
 CHECKED BY: EK  
 APPROVED BY: EK  
 DRAWN BY: SC  
 SCALE: AS SHOWN  
 DATE: 6/14/2021

PROJECT No.:  
 14003





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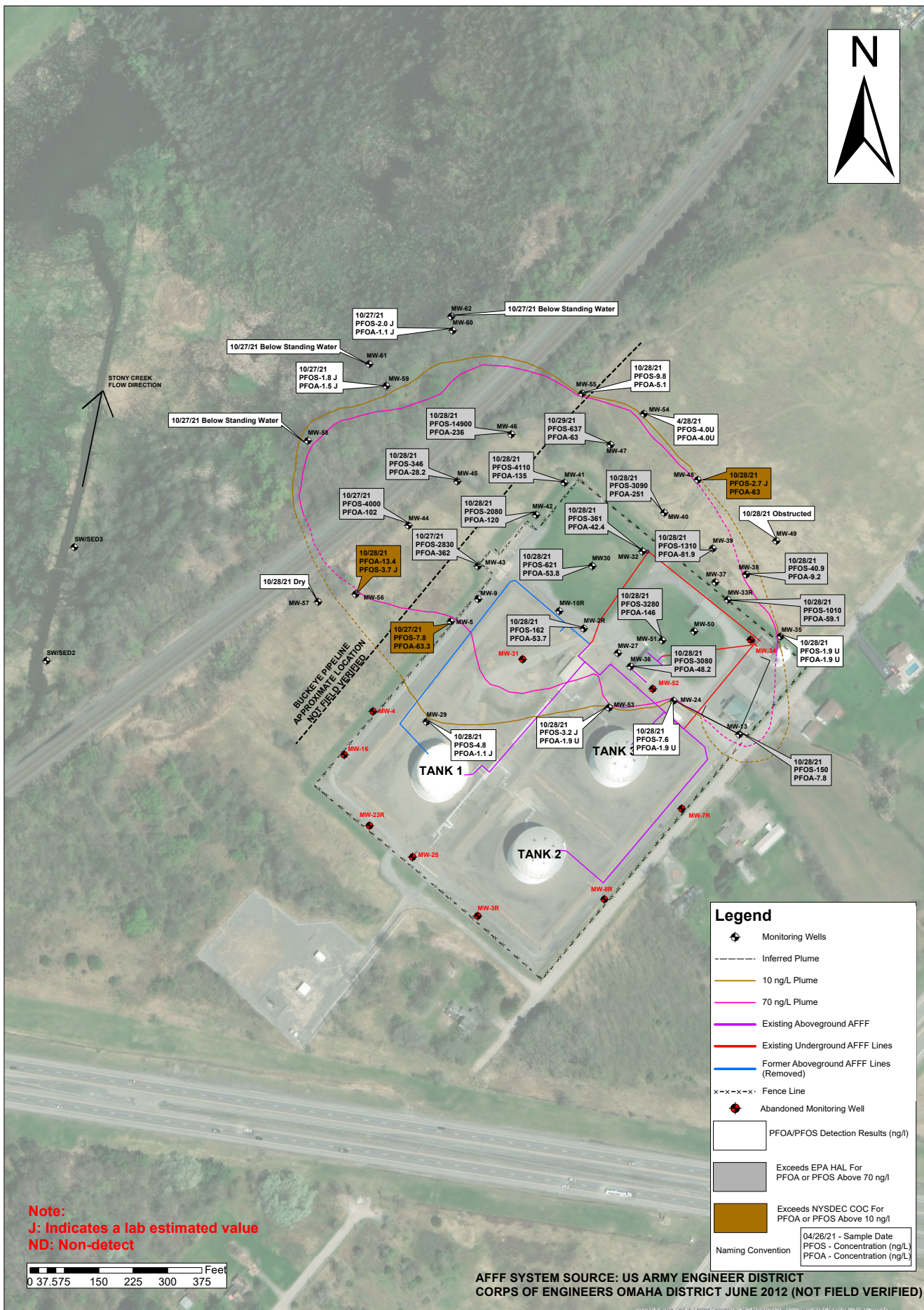
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**FIGURE 3**  
GROUNDWATER ELEVATION CONTOUR MAP  
OCTOBER 2021

POST MITIGATION  
PERFORMANCE  
SAMPLING REPORT

DESIGNED BY: CP  
CHECKED BY: EB  
APPROVED BY: EB  
DRAWN BY: CP  
SCALE: AS SHOWN  
DATE: 11/29/2021

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**FIGURE 4**  
 GROUNDWATER SAMPLING DETECTIONS  
 OCTOBER 2021

POST MITIGATION  
 PERFORMANCE  
 SAMPLING REPORT

DESIGNED BY: CP  
 CHECKED BY: EB  
 APPROVED BY: EB  
 DRAWN BY: CP  
 SCALE: AS SHOWN  
 DATE: 11/30/2021

PROJECT No.:  
 14003

## Tables

**Table 1: Well Gauging Data**  
**Post Mitigation Performance Sampling Report**  
**DFSP Verona**  
**Verona, NY**

| Monitoring Well | Date       | TOW Elevation (ft.) | DTW from TOW (ft.)   | Groundwater Elevation (ft.) |
|-----------------|------------|---------------------|----------------------|-----------------------------|
| MW-2R           | 10/28/2021 | 500.926             | 4.96                 | 495.97                      |
| MW-05           | 10/27/2021 | 488.518             | 12.30                | 476.22                      |
| MW-13           | 10/28/2021 | 509.620             | 5.85                 | 503.77                      |
| MW-24           | 10/29/2021 | 503.007             | 1.58                 | 501.427                     |
| MW-29           | 10/28/2021 | 497.202             | 6.42                 | 490.78                      |
| MW-30           | 10/28/2021 | 498.331             | 4.83                 | 493.50                      |
| MW-32           | 10/28/2021 | 499.599             | 4.35                 | 495.25                      |
| MW-33R          | 10/29/2021 | 502.156             | 3.84                 | 498.32                      |
| MW-35           | 10/28/2021 | 504.860             | 2.42                 | 502.44                      |
| MW-36           | 10/28/2021 | 501.524             | 3.81                 | 497.71                      |
| MW-38           | 10/29/2021 | 502.677             | 4.64                 | 498.04                      |
| MW-39           | 10/29/2021 | -                   | 3.49                 | -                           |
| MW-40           | 10/29/2021 | 495.763             | 2.60                 | 493.16                      |
| MW-41           | 10/29/2021 | 482.944             | 7.04                 | 475.90                      |
| MW-42           | 10/29/2021 | 482.800             | 7.12                 | 475.68                      |
| MW-43           | 10/27/2021 | 484.553             | 7.10                 | 477.45                      |
| MW-44           | 10/27/2021 | 470.402             | 3.15                 | 467.25                      |
| MW-45           | 10/28/2021 | 472.096             | 3.53                 | 468.57                      |
| MW-46           | 10/28/2021 | 476.560             | 3.70                 | 472.86                      |
| MW-47           | 10/29/2021 | 485.746             | 6.35                 | 479.40                      |
| MW-48           | 10/29/2021 | 495.534             | 2.71                 | 492.82                      |
| MW-51           | 10/28/2021 | 504.947             | 4.61                 | 500.34                      |
| MW-53           | 10/28/2021 | 503.595             | 3.39                 | 500.21                      |
| MW-54           | 4/28/2021  | 486.496             | Obstructed           | -                           |
| MW-55           | 10/29/2021 | 488.993             | 3.20                 | 485.79                      |
| MW-56           | 4/26/2021  | 469.727             | 4.02                 | 465.71                      |
| MW-57           | 10/28/2021 | 468.216             | 3.23                 | 464.99                      |
| MW-58           | 4/26/2021  | 456.774             | Not Measured         | -                           |
| MW-59           | 10/27/2021 | 463.105             | 2.6                  | 460.51                      |
| MW-60           | 10/27/2021 | 459.160             | 2.45                 | 456.03                      |
| MW-61           | 4/26/2021  | -                   | Below Standing Water | -                           |
| MW-62           | 4/26/2021  | 456.565             | Below Standing Water | -                           |

Notes:

1. Elevations based on the NAD 1983 Central New York State Plane
2. TOW = Top of Monitoring Well
3. DTW = Depth to Water

Table 2: Detected Compounds in Groundwater  
Post Mitigation Performance Sampling Report  
DFSP Verona  
Verona, NY

|                 |                            |                | Units | Perfluorooctanesulfonic<br>Acid (PFOS) | Perfluorooctanoic<br>Acid (PFOA) | Perfluoroheptonic<br>Acid (PFHpA) | Perfluorononanoic<br>Acid (PFNA) | Perfluorobutanesulfonic<br>Acid (PFBS) | Perfluorohexanesulfonic<br>Acid (PFHxS) |
|-----------------|----------------------------|----------------|-------|----------------------------------------|----------------------------------|-----------------------------------|----------------------------------|----------------------------------------|-----------------------------------------|
|                 | NYSDEC COC Screening Level |                | ng/l  | 10                                     | 10                               | 100                               | 100                              | 100                                    | 100                                     |
| Monitoring Well | Sample Designation         | Date Collected | -     | -                                      | -                                | -                                 | -                                | -                                      | -                                       |
| MW-2R           | MW-2R*                     | 1/10/2019      | ng/l  | 171                                    | 24                               | 36.2                              | 5.23 J                           | 2.46 J                                 | 14.4                                    |
|                 | MW-2R (D)*                 | 1/10/2019      | ng/l  | 144                                    | 20.4                             | 30.6                              | 3.97 J                           | 2.05 J                                 | 12.4                                    |
|                 | MW-2R                      | 11/5/2019      | ng/l  | 143                                    | 45.9                             | 99.8                              | 4.39 J                           | 7.51 J                                 | 4.46                                    |
|                 | MW-2R                      | 10/30/2020     | ng/l  | 156                                    | 84.6                             | 240                               | 6.8 J                            | 25.3                                   | 107                                     |
|                 | MW-2R                      | 4/27/2021      | ng/l  | 159                                    | 32.3                             | 60.4                              | 5.1 J                            | 7.6 J                                  | 22.7                                    |
|                 | MW-2R                      | 10/28/2021     | ng/l  | 162                                    | 53.7                             | 128                               | 5.5                              | 32.1                                   | 81.9                                    |
| MW-3R           | MW-3R                      | 11/5/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 2.49 J                                  |
| MW-4            | MW-4                       | 11/6/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
| MW-5            | MW-5                       | 11/6/2019      | ng/l  | 7.22 J                                 | 47.1                             | 118                               | 4.67 J                           | 3.8 U                                  | 4.46 J                                  |
|                 | MW-5                       | 10/30/2020     | ng/l  | 17.7                                   | 76.5                             | 156                               | 8.1                              | 4.0 U                                  | 7.3 J                                   |
|                 | MW-5                       | 4/28/2021      | ng/l  | 8.7                                    | 100                              | 189                               | 11.9                             | 4.0 U                                  | 6.7 J                                   |
|                 | MW-5                       | 10/27/2021     | ng/l  | 7.8                                    | 63.3                             | 126                               | 6.2                              | 1.0 J                                  | 7.7                                     |
| MW-7R           | MW-7R*                     | 1/9/2019       | ng/l  | 4.52 J                                 | 4.0 U                            | 4.0 U                             | 4.0 U                            | 4.0 U                                  | 6.65 J                                  |
|                 | MW-7R                      | 11/5/2019      | ng/l  | 3.37 J                                 | 3.8 U                            | 3.8 U                             | 3.8 U                            | 1.92 J                                 | 11.4                                    |
| MW-8R           | MW-8R                      | 11/5/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 6.22 J                                  |
| MW-9            | MW-9                       | 11/6/2019      | ng/l  | 124                                    | 13.7                             | 25.8                              | 3.8 U                            | 47.1                                   | 108                                     |
| MW-10R          | MW-10R                     | 1/10/2019      | ng/l  | 1080                                   | 68.6                             | 74.2                              | 4.0 U                            | 330                                    | 778                                     |
|                 | MW-10R                     | 11/5/2019      | ng/l  | 978 <sup>a</sup>                       | 65.9                             | 62.6                              | 3.8 U                            | 297                                    | 835 <sup>a</sup>                        |
| MW-13           | MW-13*                     | 1/8/2019       | ng/l  | 229                                    | 5.49 J                           | 4.32 J                            | 3.8 U                            | 10.7                                   | 78.7                                    |
|                 | MW-13                      | 11/5/2019      | ng/l  | 213                                    | 7.38 J                           | 5.02 J                            | 3.8 U                            | 9.58                                   | 85.8                                    |
|                 | MW-13                      | 10/30/2020     | ng/l  | 173                                    | 4.2 J                            | 4.1 J                             | 4.0 U                            | 11.8                                   | 76                                      |
|                 | MW-13                      | 4/27/2021      | ng/l  | 117                                    | 4.5 J                            | 3.4 J                             | 4.0 U                            | 6.6 J                                  | 44                                      |
|                 | MW-13                      | 10/28/2021     | ng/l  | 150                                    | 7.8                              | 6.3                               | 1.9 U                            | 6.5                                    | 55.4                                    |
| MW-16R          | MW-16R                     | 11/5/2019      | ng/l  | 9.3                                    | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 2.45 J                                  |
| MW-23R          | MW-23R                     | 11/5/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
| MW-24           | MW-24                      | 11/5/2019      | ng/l  | 22.6                                   | 3.8 U                            | 3.8 U                             | 3.8 U                            | 6.67 J                                 | 15.3                                    |
|                 | MW-24                      | 10/28/2021     | ng/l  | 7.6                                    | 1.9 U                            | 1.9 U                             | 1.9 U                            | 2.5 J                                  | 5.9                                     |
| MW-25           | MW-25                      | 11/5/2019      | ng/l  | 3.77 J                                 | 2.07 J                           | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 11.1                                    |
| MW-27           | MW-27                      | 11/5/2019      | ng/l  | 268                                    | 7.6 J                            | 15.5                              | 3.8 U                            | 6.47 J                                 | 94.2                                    |
| MW-29           | MW-29*                     | 1/9/2019       | ng/l  | 6.27 J                                 | 4.0 U                            | 4.0 U                             | 4.0 U                            | 4.0 U                                  | 2.27 J                                  |
|                 | MW-29 (D)*                 | 1/9/2019       | ng/l  | 7.62 J                                 | 4.0 U                            | 4.0 U                             | 4.0 U                            | 4.0 U                                  | 2.48 J                                  |
|                 | MW-29                      | 11/6/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
|                 | MW-29                      | 10/30/2020     | ng/l  | 3.8 J                                  | 4.2 U                            | 4.2 U                             | 4.2 U                            | 4.2 U                                  | 4.2 U                                   |
|                 | MW-29                      | 4/28/2021      | ng/l  | 5.8 J                                  | 4.0 U                            | 4.0 U                             | 4.0 U                            | 4.0 U                                  | 4.0 U                                   |
|                 | MW-29                      | 10/28/2021     | ng/l  | 4.8                                    | 1.1 J                            | 1.8 J                             | 1.9 U                            | 2.3 J                                  | 4.2                                     |
| MW-30           | MW-30*                     | 1/9/2019       | ng/l  | 637                                    | 50.1                             | 50.1                              | 3.59 J                           | 14.8                                   | 255                                     |
|                 | MW-30                      | 11/6/2019      | ng/l  | 405                                    | 35.8                             | 61.2                              | 2.58 J                           | 15.6                                   | 350                                     |
|                 | MW-30                      | 10/30/2020     | ng/l  | 1690                                   | 121                              | 241                               | 13.1                             | 56.2                                   | 1010                                    |
|                 | MW-30                      | 4/27/2021      | ng/l  | 510                                    | 22.3                             | 31.8                              | 2.9 J                            | 11.5                                   | 231                                     |
|                 | MW-30                      | 10/28/2021     | ng/l  | 621                                    | 53.8                             | 81.6                              | 5                                | 20.3                                   | 433                                     |
|                 | MW-31                      | 1/9/2019       | ng/l  | 13.5                                   | 3.8 U                            | 3.8 U                             | 3.8 U                            | 2.56 J                                 | 11.3                                    |
| MW-32           | MW-32*                     | 1/9/2019       | ng/l  | 98.1                                   | 4.99 J                           | 4.94 J                            | 3.8 U                            | 6.91 J                                 | 44.8                                    |
|                 | MW-32                      | 1/9/2019       | ng/l  | 647                                    | 109                              | 324                               | 25.2                             | 23                                     | 277                                     |
|                 | MW-32                      | 11/6/2019      | ng/l  | 378                                    | 66.5                             | 164                               | 19.6                             | 15                                     | 232                                     |
|                 | MW-32                      | 4/28/2021      | ng/l  | 273                                    | 36                               | 92.5                              | 7.0 J                            | 15.1                                   | 225                                     |
|                 | MW-32                      | 10/28/2021     | ng/l  | 361                                    | 42.4                             | 119                               | 9.2                              | 13.3                                   | 298                                     |
|                 | MW-32 (D)                  | 10/28/2021     | ng/l  | 449                                    | 65.4                             | 191                               | 14.9                             | 15.5                                   | 323                                     |
| MW-33/MW-33R    | MW-33*                     | 1/9/2019       | ng/l  | 5560                                   | 425                              | 539                               | 154                              | 46.5                                   | 800                                     |
|                 | MW-33                      | 11/7/2019      | ng/l  | 4500 <sup>a</sup>                      | 336                              | 487                               | 116                              | 41.9                                   | 662                                     |
|                 | MW-33 (D)                  | 11/7/2019      | ng/l  | 4730 <sup>a</sup>                      | 347                              | 499                               | 118                              | 44                                     | 691                                     |
|                 | MW-33R                     | 10/30/2020     | ng/l  | 19                                     | 2.0 J                            | 4.0 U                             | 4.0 U                            | 4.0 U                                  | 5.0 J                                   |
|                 | MW-33R                     | 4/27/2021      | ng/l  | 599                                    | 42.3                             | 104                               | 6.9 J                            | 31.2                                   | 107                                     |
|                 | MW-33R (D)                 | 4/27/2021      | ng/l  | 610                                    | 42.8                             | 104                               | 7.1 J                            | 28.5                                   | 107                                     |
|                 | MW-33R                     | 10/28/2021     | ng/l  | 1010                                   | 59.1                             | 121                               | 9.1                              | 26.5                                   | 156                                     |
| MW-34           | MW-34*                     | 1/9/2019       | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
|                 | MW-34                      | 11/6/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
|                 | MW-34 (D)                  | 11/6/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
| MW-35           | MW-35*                     | 1/9/2019       | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
|                 | MW-35                      | 11/7/2019      | ng/l  | 3.8 U                                  | 3.8 U                            | 3.8 U                             | 3.8 U                            | 3.8 U                                  | 3.8 U                                   |
|                 | MW-35                      | 10/30/2020     | ng/l  | 5.5 J                                  | 4.0 U                            | 4.0 U                             | 4.0 U                            | 4.0 U                                  | 2.7 J                                   |
|                 | MW-35                      | 4/27/2021      | ng/l  | 4.0 U                                  | 4.0 U                            | 4.0 U                             | 4.0 U                            | 4.0 U                                  | 4.0 U                                   |
|                 | MW-35                      | 10/28/2021     | ng/l  | 1.9 U                                  | 1.9 U                            | 1.9 U                             | 1.9 U                            | 1.9 U                                  | 1.9 U                                   |
| MW-36           | MW-36*                     | 1/9/2019       | ng/l  | 2030                                   | 25.5                             | 16.1                              | 3.8 U                            | 67.9                                   | 255                                     |
|                 | MW-36                      | 11/5/2019      | ng/l  | 6070 <sup>a</sup>                      | 77.4                             | 41.6                              | 3.8 U                            | 187                                    | 678                                     |
|                 | MW-36                      | 10/30/2020     | ng/l  | 4100                                   | 83.1                             | 31.8                              | 4.0 U                            | 169                                    | 481                                     |
|                 | MW-36 (D)                  | 10/30/2020     | ng/l  | 7660                                   | 123                              | 62.7                              | 4.0 U                            | 297                                    | 1040                                    |
|                 | MW-36                      | 4/27/2021      | ng/l  | 13600                                  | 156                              | 81.9                              | 2.7 J                            | 335                                    | 1480                                    |
|                 | MW-36 (D)                  | 4/27/2021      | ng/l  | 14700                                  | 146                              | 76.6                              | 2.6 J                            | 309                                    | 1580                                    |
| MW-37           | MW-37                      | 10/28/2021     | ng/l  | 3080                                   | 48.2                             | 23.9                              | 1.9 U                            | 121                                    | 332                                     |
|                 | MW-37*                     | 1/9/2019       | ng/l  | 2360                                   | 320                              | 655                               | 16.7                             | 450                                    | 3770                                    |
|                 | MW-37                      | 11/7/2019      | ng/l  | 7360 <sup>a</sup>                      | 415                              | 975 <sup>a</sup>                  | 37.7                             | 368                                    | 4580 <sup>a</sup>                       |
|                 | MW-37 (D)                  | 11/7/2019      | ng/l  | 6540 <sup>a</sup>                      | 386                              | 908 <sup>a</sup>                  | 34.5                             | 334                                    | 4350 <sup>a</sup>                       |
| MW-38           | MW-38                      | 11/7/2019      | ng/l  | 84.6                                   | 10.1                             | 28.1                              | 3.8 U                            | 103                                    | 103                                     |
|                 | MW-38                      | 10/30/2020     | ng/l  | 75.6                                   | 13.3                             | 31.2                              | 4.0 U                            | 120                                    | 146                                     |
|                 | MW-38                      | 4/27/2021      | ng/l  | 70                                     | 12.7                             | 26.8                              | 4.0 U                            | 89.2                                   | 135                                     |
|                 | MW-38                      | 10/28/2021     | ng/l  | 40.9                                   | 9.2                              | 32.3                              | 1.9 U                            | 143                                    | 112                                     |
| MW-39           | MW-39                      | 11/7/2019      | ng/l  | 1630 <sup>a</sup>                      | 67                               | 130                               | 12.3                             | 55.9                                   | 1250 <sup>a</sup>                       |
|                 | MW-39                      | 4/27/2021      | ng/l  | 929                                    | 47.6                             | 100                               | 5.0 J                            | 45.2                                   | 900                                     |
|                 | MW-39                      | 10/28/2021     | ng/l  | 1310                                   | 81.9                             | 177                               | 8.5                              | 70.7                                   | 1430                                    |
| MW-40           | MW-40                      | 11/7/2019      | ng/l  | 2640 <sup>a</sup>                      | 193                              | 449                               | 25.4                             | 86.1                                   | 1540 <sup>a</sup>                       |
|                 | MW-40                      | 10/29/2020     | ng/l  | 2620                                   | 224                              | 446                               | 26.8                             | 88.6                                   | 1590                                    |
|                 | MW-40 (D)                  | 10/29/2020     | ng/l  | 3590                                   | 293                              | 641                               | 37.4                             | 123                                    | 2480                                    |
|                 | MW-40                      | 4/27/2021      | ng/l  | 2730                                   | 238                              | 496                               | 32.1                             | 107                                    | 1630                                    |
|                 | MW-40                      | 10/28/2021     | ng/l  | 3090                                   | 251                              | 507                               | 34.5                             | 91.8                                   | 1860                                    |

Table 2: Detected Compounds in Groundwater  
Post Mitigation Performance Sampling Report  
DFSP Verona  
Verona, NY

|                 |                            |                | Units | Perfluorooctanesulfonic Acid (PFOS) | Perfluorooctanoic Acid (PFOA) | Perfluoroheptonic Acid (PFHpA) | Perfluorononanoic Acid (PFNA) | Perfluorobutanesulfonic Acid (PFBS) | Perfluorohexanesulfonic Acid (PFHxS) |
|-----------------|----------------------------|----------------|-------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------------|--------------------------------------|
|                 | NYSDEC COC Screening Level |                | ng/l  | 10                                  | 10                            | 100                            | 100                           | 100                                 | 100                                  |
| Monitoring Well | Sample Designation         | Date Collected | -     | -                                   | -                             | -                              | -                             | -                                   | -                                    |
| MW-41           | MW-41                      | 11/6/2019      | ng/l  | 4020 <sup>a</sup>                   | 107                           | 166                            | 16                            | 41                                  | 1290 <sup>a</sup>                    |
|                 | MW-41                      | 10/30/2020     | ng/l  | 6140                                | 175                           | 281                            | 27.3                          | 66.9                                | 1560                                 |
|                 | MW-41 (D)                  | 10/30/2020     | ng/l  | 5420                                | 176                           | 264                            | 2639                          | 68.6                                | 1560                                 |
|                 | MW-41                      | 4/26/2021      | ng/l  | 3140                                | 117                           | 192                            | 14.3                          | 45.6                                | 1300                                 |
|                 | MW-41                      | 10/28/2021     | ng/l  | 4110                                | 135                           | 201                            | 21.5                          | 60.3                                | 1290                                 |
|                 | MW-41 (D)                  | 10/28/2021     | ng/l  | 3970                                | 129                           | 193                            | 21                            | 58.1                                | 1350                                 |
| MW-42           | MW-42                      | 11/6/2019      | ng/l  | 1460 <sup>a</sup>                   | 107                           | 145                            | 3.62 J                        | 257                                 | 1510 <sup>a</sup>                    |
|                 | MW-42                      | 10/30/2020     | ng/l  | 1910                                | 135                           | 175                            | 5.3 J                         | 321                                 | 1770                                 |
|                 | MW-42                      | 4/26/2021      | ng/l  | 1650                                | 115                           | 132                            | 4.5 J                         | 274                                 | 1400                                 |
|                 | MW-42                      | 10/28/2021     | ng/l  | 2080                                | 120                           | 135                            | 5.4                           | 280                                 | 1640                                 |
| MW-43           | MW-43                      | 11/6/2019      | ng/l  | 810 <sup>a</sup>                    | 33.1                          | 55.9                           | 3.23 J                        | 32.8                                | 291                                  |
|                 | MW-43                      | 10/30/2020     | ng/l  | 665                                 | 33.9                          | 47.9                           | 3.4 J                         | 38.3                                | 281                                  |
|                 | MW-43                      | 4/26/2021      | ng/l  | 455                                 | 32                            | 57.1                           | 2.7 J                         | 55.5                                | 357                                  |
|                 | MW-43                      | 10/27/2021     | ng/l  | 2830                                | 362                           | 506                            | 24.6                          | 224                                 | 1980                                 |
| MW-44           | MW-44                      | 1/8/2020       | ng/l  | 3110 <sup>a</sup>                   | 69.6                          | 85.5                           | 13.4                          | 56.8                                | 739 <sup>a</sup>                     |
|                 | MW-44                      | 10/29/2020     | ng/l  | 3860                                | 75.4                          | 102                            | 11.1                          | 95.2                                | 794                                  |
|                 | MW-44                      | 4/26/2021      | ng/l  | 2760                                | 71.1                          | 108                            | 12                            | 89.1                                | 1060                                 |
|                 | MW-44                      | 10/27/2021     | ng/l  | 4000                                | 102                           | 142                            | 16                            | 103                                 | 1300                                 |
| MW-45           | MW-45                      | 1/8/2020       | ng/l  | 98.3                                | 20.2                          | 40.6                           | 2.0 J                         | 76.9                                | 490                                  |
|                 | MW-45                      | 10/29/2020     | ng/l  | 239                                 | 24                            | 45.4                           | 4.0 U                         | 48.7                                | 310                                  |
|                 | MW-45                      | 4/26/2021      | ng/l  | 205                                 | 18.7                          | 35.1                           | 4.0 U                         | 61.1                                | 432                                  |
|                 | MW-45                      | 10/28/2021     | ng/l  | 346                                 | 28.2                          | 54.3                           | 1.6 J                         | 65.8                                | 442                                  |
| MW-46           | MW-46                      | 1/8/2020       | ng/l  | 13600 <sup>a</sup>                  | 166                           | 289                            | 21.3                          | 97.9                                | 6050 <sup>a</sup>                    |
|                 | MW-46                      | 10/29/2020     | ng/l  | 6800                                | 115                           | 202                            | 10.4                          | 145                                 | 2100                                 |
|                 | MW-46                      | 4/26/2021      | ng/l  | 14000                               | 202                           | 356                            | 29.5                          | 184                                 | 7690                                 |
|                 | MW-46                      | 10/28/2021     | ng/l  | 14900                               | 236                           | 234 J                          | 150 U <sup>b</sup>            | 126                                 | 6540                                 |
| MW-47           | MW-47                      | 1/9/2020       | ng/l  | 679                                 | 78.9                          | 206                            | 3.5 J                         | 36.0                                | 540                                  |
|                 | MW-47                      | 10/29/2020     | ng/l  | 1770                                | 158                           | 335                            | 19.3                          | 60.3                                | 913                                  |
|                 | MW-47                      | 4/27/2021      | ng/l  | 852                                 | 77.7                          | 160                            | 5.8 J                         | 37.2                                | 481                                  |
|                 | MW-47                      | 10/29/2021     | ng/l  | 637                                 | 63                            | 141                            | 4.1                           | 33.4                                | 401                                  |
| MW-48           | MW-48                      | 1/9/2020       | ng/l  | 7.0 J                               | 32.3                          | 136                            | 3.8 U                         | 83.0                                | 246                                  |
|                 | MW-48 (D)                  | 1/9/2020       | ng/l  | 3.0 J                               | 31.8                          | 139                            | 3.8 U                         | 81.0                                | 254                                  |
|                 | MW-48                      | 10/29/2020     | ng/l  | 10.5                                | 44.9                          | 154                            | 4.0 U                         | 85.1                                | 325                                  |
|                 | MW-48                      | 4/26/2021      | ng/l  | 3.9 J                               | 45.2                          | 138                            | 4.4 U                         | 69.2                                | 230                                  |
|                 | MW-48                      | 10/28/2021     | ng/l  | 2.7 J                               | 39.6                          | 115                            | 1.9 U                         | 64.2                                | 293                                  |
| MW-50           | MW-50                      | 1/8/2020       | ng/l  | 111                                 | 61.2                          | 234                            | 3.8 U                         | 13.6                                | 260                                  |
| MW-51           | MW-51                      | 1/8/2020       | ng/l  | 2620 <sup>a</sup>                   | 88.5                          | 100                            | 14.9                          | 26.8                                | 899 <sup>a</sup>                     |
|                 | MW-51                      | 10/30/2020     | ng/l  | 2150                                | 180                           | 227                            | 20.5                          | 50.3                                | 1330                                 |
|                 | MW-51                      | 4/27/2021      | ng/l  | 2850                                | 123                           | 98.6                           | 22.3                          | 31.9                                | 1110                                 |
|                 | MW-51                      | 10/28/2021     | ng/l  | 3280                                | 146                           | 153                            | 20.9                          | 48.3                                | 1290                                 |
| MW-52           | MW-52                      | 1/9/2020       | ng/l  | 7.0 J                               | 2.9 J                         | 2.1 J                          | 3.8 U                         | 4.4 J                               | 15.6                                 |
| MW-53           | MW-53                      | 1/8/2020       | ng/l  | 4.4 J                               | 3.8 U                         | 3.8 U                          | 3.8 U                         | 3.8 U                               | 2.4 J                                |
|                 | MW-53                      | 10/29/2020     | ng/l  | 5.1 J                               | 4.2 U                         | 4.2 U                          | 4.2 U                         | 4.2 U                               | 3.6 J                                |
|                 | MW-53                      | 4/28/2021      | ng/l  | 8                                   | 4.0 U                         | 2.4 J                          | 4.0 U                         | 4.0 U                               | 3.6 J                                |
|                 | MW-53                      | 10/28/2021     | ng/l  | 3.2 J                               | 1.9 U                         | 1.9 U                          | 1.9 U                         | 1.9 U                               | 2.3 J                                |
| MW-54           | MW-54                      | 4/28/2021      | ng/l  | 4.0 U                               | 4.0 U                         | 4.0 U                          | 4.0 U                         | 5.5 J                               | 3.7 J                                |
| MW-55           | MW-55                      | 4/28/2021      | ng/l  | 10.5                                | 2.8 J                         | 10                             | 4.4 U                         | 16.3                                | 50.5                                 |
|                 | MW-55                      | 10/28/2021     | ng/l  | 9.8                                 | 5.1                           | 19.6                           | 1.9 U                         | 19.2                                | 54.8                                 |
| MW-56           | MW-56                      | 10/29/2020     | ng/l  | 226                                 | 72.9                          | 286                            | 10.3                          | 31.9                                | 393                                  |
|                 | MW-56                      | 4/26/2021      | ng/l  | 187                                 | 59.4                          | 239                            | 8.3                           | 23.5                                | 355                                  |
|                 | MW-56                      | 10/28/2021     | ng/l  | 13.4                                | 3.7 J                         | 8                              | 1.9 U                         | 2.9 J                               | 7.8                                  |
| MW-58           | MW-58                      | 7/21/2020      | ng/l  | 7.2 J                               | 9.1                           | 32.3                           | 4.2 U                         | 50.9                                | 262                                  |
|                 | MW-58                      | 4/26/2021      | ng/l  | 29.7                                | 3.4 J                         | 7.7 J                          | 4.0 U                         | 17.5                                | 87.9                                 |
| MW-59           | MW-59                      | 10/27/2021     | ng/l  | 1.8 J                               | 1.5 J                         | 3.2 J                          | 1.9 U                         | 5.6                                 | 13.9                                 |
| MW-60           | MW-60                      | 7/21/2020      | ng/l  | 4.5 U                               | 2.8 J                         | 4.5 U                          | 4.5 U                         | 4.5 U                               | 4.6 J                                |
|                 | MW-60                      | 4/26/2021      | ng/l  | 4.9 J                               | 4.0 U                         | 4.0 U                          | 4.0 U                         | 4.0 U                               | 4.0 U                                |
|                 | MW-60                      | 10/27/2021     | ng/l  | 2.0 J                               | 1.1 J                         | 1.9 U                          | 1.9 U                         | 1.2 J                               | 4.3                                  |
| MW-61           | MW-61                      | 7/21/2020      | ng/l  | 4.8 J                               | 4.5 U                         | 3.6 J                          | 4.5 U                         | 16                                  | 12.7                                 |
|                 | MW-61                      | 04/2021        | ng/l  | NS                                  | NS                            | NS                             | NS                            | NS                                  | NS                                   |
| MW-62           | MW-62                      | 04/2021        | ng/l  | NS                                  | NS                            | NS                             | NS                            | NS                                  | NS                                   |
| Quality Control | E/MW-01                    | 1/10/2019      | ng/l  | 4.2 U                               | 4.2 U                         | 4.2 U                          | 4.2 U                         | 4.2 U                               | 4.2 U                                |
|                 | FB/FBD-01                  | 1/10/2019      | ng/l  | 4.0 U                               | 4.0 U                         | 4.0 U                          | 4.0 U                         | 4.0 U                               | 4.2 U                                |
|                 | 10-17-19 Equipment QC      | 10/17/2019     | ng/l  | 3.8 U                               | 3.8 U                         | 3.8 U                          | 3.8 U                         | 3.8                                 | 3.8 U                                |
|                 | 11072019 EQUIPMENT BLANK   | 11/7/2019      | ng/l  | 3.8 U                               | 3.8 U                         | 3.8 U                          | 3.8 U                         | 3.8 U                               | 3.8 U                                |
|                 | 121919 E/MW-01 (GW)        | 12/19/2019     | ng/l  | 4 U                                 | 4 U                           | 4 U                            | 4 U                           | 4 U                                 | 4 U                                  |
|                 | 01-09-2020 FB/FBD-01       | 1/9/2020       | ng/l  | 3.8 U                               | 3.8 U                         | 3.8 U                          | 3.8 U                         | 3.8 U                               | 3.8 U                                |
|                 | 01-09-2020 E/MW-01 (GW)    | 1/9/2020       | ng/l  | 3.8 U                               | 3.8 U                         | 3.8 U                          | 3.8 U                         | 3.8 U                               | 3.8 U                                |
|                 | FIELD BLANK                | 10/30/2020     | ng/l  | 4.2 U                               | 4.2 U                         | 4.2 U                          | 4.2 U                         | 4.2 U                               | 4.2 U                                |
|                 | EQUIPMENT BLANK            | 10/30/2020     | ng/l  | 4.2 U                               | 4.2 U                         | 4.2 U                          | 4.2 U                         | 4.2 U                               | 4.2 U                                |
|                 | EQUIPMENT BLANK            | 4/26/2021      | ng/l  | 4.0 U                               | 4.0 U                         | 4.0 U                          | 4.0 U                         | 4.0 U                               | 4.0 U                                |
|                 | EQUIPMENT BLANK            | 10/28/2021     | ng/l  | 1.9 U                               | 1.9 U                         | 1.9 U                          | 1.9 U                         | 1.9 U                               | 1.9 U                                |

Notes:

1. ng/l - nanograms per liter
2. U - Undetected at the Limit of Detection
3. J - Lab estimated Value
4. <sup>a</sup> - Result is from sample analysis run #2
5. (D) = duplicate sample
6. NS=Not Sampled

7. Shaded and bolded concentrations indicating result exceeds the NYSDEC's COC Screening Level for PFAS

8. Samples analyzed by Method: MS Semi-volatiles (EPA 537M QSM5.1 B-15)

9. 10-17-19 Equipment QC, 121919 E/MW-01 (GW), 11072019 EQUIPMENT BLANK, 01-09-2020 E/MW-01 (GW), EQUIPMENT BLANK are equipment blank samples

10. 01-09-2020 FB/FBD-01, FIELD BLANK are field blank samples

10. WC-1 10/17/19 and WC-2 10/17/19 are waste characterization samples

12. COC - Contaminant of Concern

13. <sup>b</sup> - Lab detection limit above NYSDEC Screening Level

## **Appendix A - NYSDEC Correspondence**

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A  
625 Broadway, 12th Floor, Albany, NY 12233-7015  
P: (518) 402-9625 | F: (518) 402-9627  
www.dec.ny.gov

Mr. William Potter, P.G.  
Defense Logistics Agency  
DLA Installation Management for Energy  
8725 John J. Kingman Road, rm 2828  
Fort Belvoir, VA 22060

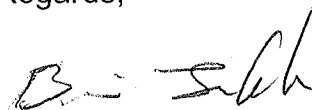
SEP 04 2019

Re: DFSP Verona (633086)

Dear Mr. Potter:

The New York State Department of Environmental Conservation has reviewed the Final Site Characterization Report for Defense Fuel Support Point Verona, dated July 2019. The Department finds the report to be acceptable. The Department would like subsequent investigations to be performed to define the extents of soil and groundwater contamination identified and determine if groundwater contamination is impacting Stoney Creek. A work plan detailing the activities to be performed as part of the next phase of activities should be submitted for review and approval. Future figures should include the date of information being presented (e.g. Figures 3, 4, and 5). The Please contact me at (518) 402-9626 if you have any questions.

Regards,



Brian Jankauskas, P.E.  
Project Manager  
Remedial Bureau A, Section C

cc: J. Swartwout, DEC  
E. O'Neil, DOH  
file



Department of  
Environmental  
Conservation

**Appendix B - Assistant Secretary Of The Air Force Letter**



## DEPARTMENT OF THE AIR FORCE

WASHINGTON, DC 20330-1000

OFFICE OF THE ASSISTANT SECRETARY

21 October 2020

SAF/IE  
1665 Air Force Pentagon  
Washington, DC 20330

The Honorable Jeanne Shaheen  
United States Senate  
Washington, DC 20515

Dear Senator Shaheen:

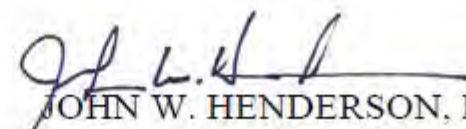
Thank you for your letter of September 27, 2020, regarding our communications with the New Hampshire Department of Environmental Services concerning recently enacted state Maximum Contaminant Levels and Ambient Groundwater Quality Standards for four per- and polyfluoroalkyl substances (PFAS). We are conducting groundwater response actions nationally in accordance with the *Department of Defense Remediation Plan for Cleanup of Water Impacted with Perfluorooctane Sulfonate or Perfluorooctanoic Acid*, submitted to Congress in June 2020.

At the former Pease AFB, we have ensured that no one is drinking water with concentrations of PFOS and PFOA above USEPA lifetime health advisory (HA) levels attributable to the Department of the Air Force. We awarded the Remedial Investigation (RI) phase contract in July, pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), which includes a baseline human health risk assessment. As you note, we will also consider State standards as potential "applicable or relevant and appropriate requirements" (ARARs) during this phase of the process. Additionally, if at any time in the CERCLA process we find that anyone is being exposed to drinking water above USEPA's HA due to releases from Pease, we will take appropriate action.

The state of science for PFAS compounds continues to progress. Your memo highlights key policy issues in that we are currently constrained to apply USEPA's HA levels as the triggers for removal actions such as providing alternate water for private well owners. We will work through the DoD's PFAS Task Force to evaluate options for addressing these issues in a consistent manner across DoD.

We are committed to protecting human health and the environment at Pease and the surrounding community, and will continue working closely with stakeholders on PFOS/PFOA actions. I am available at your convenience to discuss this matter further or answer any questions you may have. We appreciate your continued support for the men and women of the Department of the Air Force.

Sincerely,

  
JOHN W. HENDERSON, P.E.  
Assistant Secretary of the Air Force  
(Installations, Environment and Energy)

## **Appendix C - Low-Flow Groundwater Sampling Records**



## LOW FLOW GROUNDWATER SAMPLING RECORD

|                                    |                                |
|------------------------------------|--------------------------------|
| PROJECT NAME<br><u>DESP VERONA</u> |                                |
| PROJECT NUMBER<br><u>14003.001</u> |                                |
| SAMPLE ID<br><u>MW-2R</u>          | SAMPLE TIME<br><u>10/28/21</u> |

|                             |                              |
|-----------------------------|------------------------------|
| LOCATION ID<br><u>MW-2R</u> | DATE<br><u>10/28/21</u>      |
| START TIME<br><u>2:01</u>   | END TIME<br><u>3:12</u>      |
| SITE NAME/NUMBER            | PAGE<br><u>1</u> OF <u>2</u> |

WELL DIAMETER (INCHES) ☒ 1 ☐ 2 ☒ 4 ☐ 6 ☐ 8 ☐ OTHER 3 IN

TUBING ID (INCHES) ☐ 1/8 ☐ 3/16 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

|                                                             |                                     |                          |
|-------------------------------------------------------------|-------------------------------------|--------------------------|
| WELL INTEGRITY                                              |                                     |                          |
| YES                                                         | NO                                  | N/A                      |
| CAP                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CASING                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| LOCKED                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| COLLAR                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| TOC/TOR DIFFERENCE <u>                    </u> FT           |                                     |                          |
| REFILL TIMER SETTING <u>                    </u> N/A SEC    |                                     |                          |
| DISCHARGE TIMER SETTING <u>                    </u> N/A SEC |                                     |                          |
| PRESSURE TO PUMP <u>                    </u> N/A PSI        |                                     |                          |

|                                                                                  |                                                                                            |                                                           |                                                             |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|
| INITIAL DTW (BMP) <u>4.96</u> FT                                                 | FINAL DTW (BMP) <u>8.04</u> FT                                                             | PROT. CASING STICKUP (AGS) <u>                    </u> FT | TOC/TOR DIFFERENCE <u>                    </u> FT           |
| WELL DEPTH (BMP) <u>11.32</u> FT                                                 | SCREEN LENGTH <u>                    </u> FT                                               | PID AMBIENT AIR <u>                    </u> PPM           | REFILL TIMER SETTING <u>                    </u> N/A SEC    |
| WATER COLUMN <u>6.36</u> FT                                                      | DRAWDOWN VOLUME <u>2.201</u> GAL<br>(initial DTW - final DTW X well diam. squared X 0.041) | PID WELL MOUTH <u>                    </u> PPM            | DISCHARGE TIMER SETTING <u>                    </u> N/A SEC |
| CALCULATED GAL/VOL <u>415.20</u> GAL<br>(column X well diameter squared X 0.041) | TOTAL VOL. PURGED <u>6.87</u> GAL<br>(mL per minute X total minutes X 0.00026 gal/mL)      | DRAWDOWN/ TOTAL PURGED <u>                    </u>        | PRESSURE TO PUMP <u>                    </u> N/A PSI        |

## FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME<br>3-5 Minutes | DTW (FT)<br>0.0-0.33 ft | PURGE RATE<br>(mL/min) | TEMP. (°C)<br>(+/- 3.3%) | SP. CONDUCTANCE<br>(mS/cm) (+/- 3%) | pH (units)<br>(+/- 0.1 units) | DISS. O <sub>2</sub> (mg/L)<br>(+/- 10% or <0.5) | TURBIDITY (ntu)<br>(+/- 10% or <5) | ORP (mv)<br>(+/- 10 mv) | PUMP<br>INTAKE | COMMENTS |
|---------------------|-------------------------|------------------------|--------------------------|-------------------------------------|-------------------------------|--------------------------------------------------|------------------------------------|-------------------------|----------------|----------|
| BEGIN PURGING       |                         |                        |                          |                                     |                               |                                                  |                                    |                         |                |          |
| 2:01                | 4.96                    | 400                    | 16                       | 306                                 | 7.5                           | 7.60                                             | 453                                | -47.7                   |                |          |
| 2:10                | 6.07                    | 400                    | 16                       | 311                                 | 7.5                           | 7.65                                             | 158                                | -45.1                   |                |          |
| 2:15                | 6.30                    | 400                    | 16                       | 320                                 | 7.5                           | 7.69                                             | 141                                | -44.5                   |                |          |
| 2:20                | 6.51                    | 400                    | 16                       | 342                                 | 7.5                           | 7.73                                             | 125                                | -44.0                   |                |          |
| 2:25                | 6.64                    | 400                    | 16                       | 401                                 | 7.5                           | 7.71                                             | 117                                | -43.7                   |                |          |
| 2:30                | 6.72                    | 400                    | 16                       | 407                                 | 7.5                           | 7.59                                             | 105                                | -44.0                   |                |          |
| 2:35                | 7.14                    | 400                    | 16                       | 411                                 | 7.5                           | 7.54                                             | 78.5                               | -42.9                   |                |          |
| 2:40                | 7.25                    | 400                    | 16                       | 419                                 | 7.5                           | 7.53                                             | 70.3                               | -43.1                   |                |          |
| 2:45                | 7.38                    | 400                    | 16                       | 432                                 | 7.5                           | 6.90                                             | 65.9                               | -43.9                   |                |          |
| 2:50                | 7.4                     | 400                    | 16                       | 448                                 | 7.5                           | 6.84                                             | 68.4                               | -44.1                   |                |          |
| 2:55                | 7.7                     | 400                    | 16                       | 455                                 | 7.4                           | 5.56                                             | 40.7                               | -45.9                   |                |          |
| 3:00                | 7.77                    | 400                    | 16                       | 457                                 | 7.3                           | 5.13                                             | 33.4                               | -47.4                   |                |          |
| 3:05                | 7.44                    | 400                    | 16                       | 462                                 | 7.3                           | 4.97                                             | 30.3                               | -48.3                   |                |          |

## EQUIPMENT DOCUMENTATION

|                                                 |                                                 |                                                 |                                                 |                                              |                                |                                   |                                      |
|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|
| TYPE OF PUMP                                    |                                                 | DECON FLUIDS USED                               |                                                 | TUBING/PUMP/BLADDER MATERIALS                |                                | EQUIPMENT USED                    |                                      |
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> LIQUINOX               | <input type="checkbox"/> SILICON TUBING         | <input type="checkbox"/> S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> WL METER | <input type="checkbox"/> PID   | <input type="checkbox"/> WQ METER | <input type="checkbox"/> TURB. METER |
| <input type="checkbox"/> SUBMERSIBLE            | <input type="checkbox"/> DEIONIZED WATER        | <input type="checkbox"/> TEFLON TUBING          | <input type="checkbox"/> PVC PUMP MATERIAL      | <input type="checkbox"/> GEOPROBE SCREEN     | <input type="checkbox"/> PUMP  | <input type="checkbox"/> OTHER    | <input type="checkbox"/> OTHER       |
| <input type="checkbox"/> BLADDER                | <input type="checkbox"/> POTABLE WATER          | <input type="checkbox"/> TEFLON LINED TUBING    | <input type="checkbox"/> HDPE TUBING            | <input type="checkbox"/> TEFLON BLADDER      | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER    | <input type="checkbox"/> OTHER       |
| <input type="checkbox"/> WATERA                 | <input type="checkbox"/> NITRIC ACID            | <input checked="" type="checkbox"/> HDPE TUBING | <input type="checkbox"/> LDPE TUBING            | <input type="checkbox"/> OTHER               | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER    | <input type="checkbox"/> OTHER       |
| <input type="checkbox"/> OTHER                  | <input type="checkbox"/> HEXANE                 | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER               | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER    | <input type="checkbox"/> OTHER       |
| <input type="checkbox"/> OTHER                  | <input type="checkbox"/> METHANOL               | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER               | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER    | <input type="checkbox"/> OTHER       |
| <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER <u>PFAS Free</u> | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER               | <input type="checkbox"/> OTHER | <input type="checkbox"/> OTHER    | <input type="checkbox"/> OTHER       |

## ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |

## PURGE OBSERVATIONS

|                           |                                                                     |                                                                                                  |
|---------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| PURGE WATER CONTAINERIZED | YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | NUMBER OF GALLONS GENERATED <u>6.87</u>                                                          |
| NO-PURGE METHOD UTILIZED  | YES <input type="checkbox"/> NO <input type="checkbox"/>            | If yes, purged approximately 1 standing volume prior to sampling or mL for this sample location. |

## NOTES:

stabilization achieved, sample taken

Sampler Signature:  
Checked By:Print Name:  
Date:



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>NW-2R | DATE<br>10/28/21 |
| START TIME<br>2:01   | END TIME<br>3:10 |
| SITE NAME/NUMBER     | PAGE<br>2 OF 2   |

|        | WELL INTEGRITY |             |             |
|--------|----------------|-------------|-------------|
|        | YES            | NO          | N/A         |
| CAP    | <u>X</u>       | <u>    </u> | <u>    </u> |
| CASING | <u>X</u>       | <u>    </u> | <u>    </u> |
| LOCKED | <u>X</u>       | <u>    </u> | <u>    </u> |
| COLLAR | <u>X</u>       | <u>    </u> | <u>    </u> |

|                                                                   |          |                      |                                                                    |                               |     |                            |         |
|-------------------------------------------------------------------|----------|----------------------|--------------------------------------------------------------------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                                              | 4.96 FT  | FINAL DTW<br>(BMP)   | 8.04 FT                                                            | PROT. CASING<br>STICKUP (AGS) | FT  | TOC/TOR<br>DIFFERENCE      | FT      |
| WELL DEPTH<br>(BMP)                                               | 11.32 FT | SCREEN<br>LENGTH     | FT                                                                 | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                                                   | 6.36 FT  | DRAWDOWN<br>VOLUME   | 2.01 GAL<br>(initial DTW - final DTW X well diam. squared X 0.041) | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL<br>(column X well diameter squared X 0.041) | 4.15 GAL | TOTAL VOL.<br>PURGED | 6.87 GAL<br>(mL per minute X total minutes X 0.00026 gal/mL)       | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |

| EQUIPMENT DOCUMENTATION             |             | TYPE OF PUMP             |                       | DECON FLUIDS USED                   |                     | TUBING/PUMP/BLADDER MATERIALS       |                        | EQUIPMENT USED                      |                  |
|-------------------------------------|-------------|--------------------------|-----------------------|-------------------------------------|---------------------|-------------------------------------|------------------------|-------------------------------------|------------------|
| <input checked="" type="checkbox"/> | PERISTALTIC | <input type="checkbox"/> | LIQUINOX              | <input type="checkbox"/>            | SILICON TUBING      | <input checked="" type="checkbox"/> | S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> | WL METER         |
| <input type="checkbox"/>            | SUBMERSIBLE | <input type="checkbox"/> | DEIONIZED WATER       | <input type="checkbox"/>            | TEFLON TUBING       | <input type="checkbox"/>            | PVC PUMP MATERIAL      | <input type="checkbox"/>            | PID              |
| <input type="checkbox"/>            | BLADDER     | <input type="checkbox"/> | POTABLE WATER         | <input type="checkbox"/>            | TEFLON LINED TUBING | <input type="checkbox"/>            | GEOPROBE SCREEN        | <input checked="" type="checkbox"/> | WQ METER         |
| <input type="checkbox"/>            |             | <input type="checkbox"/> | NITRIC ACID           | <input checked="" type="checkbox"/> | HDPE TUBING         | <input type="checkbox"/>            | TEFLON BLADDER         | <input checked="" type="checkbox"/> | TURB. METER      |
| <input type="checkbox"/>            | WATTERA     | <input type="checkbox"/> | HEXANE                | <input type="checkbox"/>            | LDPE TUBING         | <input type="checkbox"/>            | OTHER                  | <input checked="" type="checkbox"/> | PUMP             |
| <input type="checkbox"/>            | OTHER       | <input type="checkbox"/> | METHANOL              | <input type="checkbox"/>            | OTHER               | <input type="checkbox"/>            | OTHER                  | <input type="checkbox"/>            | OTHER            |
| <input type="checkbox"/>            | OTHER       | <input type="checkbox"/> | OTHER <i>PPAS PCC</i> | <input type="checkbox"/>            | OTHER               | <input type="checkbox"/>            | OTHER                  | <input type="checkbox"/>            | FILTERS NO. TYPE |

## PURGE OBSERVATIONS

NUMBER OF GALLONS GENERATED 6.87

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**NOTES:**

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                     |                  |
|---------------------|------------------|
| LOCATION ID<br>MW-5 | DATE<br>10/27/21 |
| START TIME<br>3:11  | END TIME<br>1549 |
| SITE NAME/NUMBER    | PAGE<br>OF 1     |

|                                          |           |                                                                               |          |                               |     |                            |         |
|------------------------------------------|-----------|-------------------------------------------------------------------------------|----------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                     | 12.3 FT   | FINAL DTW<br>(BMP)                                                            | 16.83 FT | PROT. CASING<br>STICKUP (AGS) | FT  | TOCTOR<br>DIFFERENCE       | FT      |
| WELL DEPTH<br>(BMP)                      | 18 FT     | SCREEN<br>LENGTH                                                              | FT       | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                          | 5.7 FT    | DRAWDOWN<br>VOLUME                                                            | 7.74 GAL | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL                    | 22.93 GAL | (initial DTW- final DTW X well diam. squared X 0.041)<br>TOTAL VOL.<br>PURGED | 3.17 GAL | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |
| (column X well diameter squared X 0.041) |           | (mL per minute X total minutes X 0.00026 gal/mL)                              |          |                               |     |                            |         |

| EQUIPMENT DOCUMENTATION             |             |                                     |                        |                                     |                  |
|-------------------------------------|-------------|-------------------------------------|------------------------|-------------------------------------|------------------|
| TYPE OF PUMP                        |             | TUBING/PUMP/BLADDER MATERIALS       |                        | EQUIPMENT USED                      |                  |
| <input checked="" type="checkbox"/> | PERISTALTIC | <input type="checkbox"/>            | LIQUINOX               | <input checked="" type="checkbox"/> | WL METER         |
| <input type="checkbox"/>            | SUBMERSIBLE | <input type="checkbox"/>            | DEIONIZED WATER        | <input type="checkbox"/>            | PID              |
| <input type="checkbox"/>            | BLADDER     | <input type="checkbox"/>            | POTABLE WATER          | <input type="checkbox"/>            | WQ METER         |
| <input type="checkbox"/>            |             | <input checked="" type="checkbox"/> | NITRIC ACID            | <input type="checkbox"/>            | TURB. METER      |
| <input type="checkbox"/>            | WATTERA     | <input type="checkbox"/>            | HDPE TUBING            | <input type="checkbox"/>            | PUMP             |
| <input type="checkbox"/>            | OTHER       | <input type="checkbox"/>            | LDPE TUBING            | <input type="checkbox"/>            | OTHER            |
| <input type="checkbox"/>            | OTHER       | <input type="checkbox"/>            | OTHER                  | <input type="checkbox"/>            | FILTERS NO. TYPE |
|                                     |             |                                     | OTHER <i>OFAS Free</i> |                                     |                  |

### PURGE OBSERVATIONS

NUMBER OF GALLONS GENERATED 3.17

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                   |
|----------------------|-------------------|
| LOCATION ID<br>MW-13 | DATE<br>10/28/21  |
| START TIME<br>10:00  | END TIME<br>10:35 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1    |

|        | WELL INTEGRITY                      |                          |                          |
|--------|-------------------------------------|--------------------------|--------------------------|
|        | YES                                 | NO                       | N/A                      |
| CAP    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

[illegible][illegible]

| ANALYTICAL PARAMETERS |               |                |                     |                 |                  |              |                          |
|-----------------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| PARAMETER             | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |

|                                                                     |                          |                                     |
|---------------------------------------------------------------------|--------------------------|-------------------------------------|
| PURGE OBSERVATIONS                                                  |                          |                                     |
| PURGE WATER                                                         | YES                      | NO                                  |
| CONTAINERIZED                                                       | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD                                                     | YES                      | NO                                  |
| UTILIZED                                                            | <input type="checkbox"/> | <input type="checkbox"/>            |
| NUMBER OF GALLONS GENERATED                                         |                          | 4                                   |
| If yes, purged approximately 1 standing volume prior to sampling or |                          | mL for this sample location.        |

NOTES: Stabilization achieved, sample taken

Sampler Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_

# LOW FLOW GROUNDWATER SAMPLING RECORD



|                                    |                                |
|------------------------------------|--------------------------------|
| PROJECT NAME<br><b>DESP VERONA</b> |                                |
| PROJECT NUMBER<br><b>14003.001</b> |                                |
| SAMPLE ID<br><b>MW-24</b>          | SAMPLE TIME<br><b>10/29/21</b> |

|                             |                              |
|-----------------------------|------------------------------|
| LOCATION ID<br><b>MW-24</b> | DATE<br><b>10/29/21</b>      |
| START TIME<br><b>13:00</b>  | END TIME<br><b>1340</b>      |
| SITE NAME/NUMBER            | PAGE<br><b>1</b> OF <b>1</b> |

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER \_\_\_\_\_

TUBING ID (INCHES) ☐ 1/8 ☐ 3/16 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ OTHER \_\_\_\_\_

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER \_\_\_\_\_

WELL INTEGRITY  
YES NO N/A

|        |                                     |                          |                          |
|--------|-------------------------------------|--------------------------|--------------------------|
| CAP    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                                                |                                                                                          |                                        |                                    |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
| INITIAL DTW (BMP)<br><b>1.58</b> FT                                            | FINAL DTW (BMP)<br><b>3.23</b> FT                                                        | PROT. CASING STICKUP (AGS)<br>_____ FT | TOCTOR DIFFERENCE<br>_____ FT      |
| WELL DEPTH (BMP)<br><b>11.47</b> FT                                            | SCREEN LENGTH<br>_____ FT                                                                | PID AMBIENT AIR<br>_____ PPM           | REFILL TIMER SETTING<br>N/A SEC    |
| WATER COLUMN<br><b>9.89</b> FT                                                 | DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041)<br><b>.27</b> GAL | PID WELL MOUTH<br>_____ PPM            | DISCHARGE TIMER SETTING<br>N/A SEC |
| CALCULATED GAL/VOL (column X well diameter squared X 0.041)<br><b>1.61</b> GAL | TOTAL VOL. PURGED<br><b>5.28</b> GAL                                                     | DRAWDOWN/ TOTAL PURGED<br>_____        | PRESSURE TO PUMP<br>N/A PSI        |

## FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME<br>3-5 Minutes | DTW (FT)<br>0.0-0.33 ft | PURGE RATE<br>(ml/min) | TEMP. (°C)<br>(+/- 3%) | SP. CONDUCTANCE<br>(mS/cm) (+/- 3%) | pH (units)<br>(+/- 0.1 units) | DISS. O <sub>2</sub> (mg/L)<br>(+/- 10% or <0.5) | TURBIDITY (ntu)<br>(+/- 10% or <5) | ORP (mv)<br>(+/- 10 mv) | PUMP<br>INTAKE | COMMENTS |
|---------------------|-------------------------|------------------------|------------------------|-------------------------------------|-------------------------------|--------------------------------------------------|------------------------------------|-------------------------|----------------|----------|
| BEGIN PURGING       |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
| 1300                | 1.58                    | 500                    | 17                     | 748                                 | 6.4                           | 6.05                                             | 121                                | 60.2                    |                |          |
| 1305                | 2.98                    | 500                    | 18                     | 815                                 | 6.4                           | 1.83                                             | 23.7                               | 64.0                    |                |          |
| 1310                | 3.05                    | 500                    | 18                     | 870                                 | 6.4                           | 1.53                                             | 16.6                               | 62.9                    |                |          |
| 1315                | 3.10                    | 500                    | 18                     | 911                                 | 6.4                           | 1.23                                             | 10.6                               | 61.2                    |                |          |
| 1320                | 3.15                    | 500                    | 18                     | 946                                 | 6.4                           | 1.06                                             | 9.14                               | 59.1                    |                |          |
| 1325                | 3.18                    | 500                    | 18                     | 964                                 | 6.4                           | .92                                              | 7.27                               | 57.8                    |                |          |
| 1330                | 3.20                    | 500                    | 18                     | 981                                 | 6.4                           | .84                                              | 6.42                               | 57.0                    |                |          |
| 1335                | 3.22                    | 500                    | 18                     | 996                                 | 6.4                           | .76                                              | 5.91                               | 55.7                    |                |          |
| 1340                | 3.23                    | 500                    | 18                     | 1005                                | 6.4                           | .71                                              | 5.52                               | 54.8                    |                |          |
|                     |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |

## EQUIPMENT DOCUMENTATION

TYPE OF PUMP

☒ PERISTALTIC  
☐ SUBMERSIBLE  
☐ BLADDER

☐ WATERA  
☐ OTHER  
☐ OTHER

### DECON FLUIDS USED

☐ LIQUINOX  
☐ DEIONIZED WATER  
☐ POTABLE WATER  
☐ NITRIC ACID  
☐ HEXANE  
☐ METHANOL  
☐ OTHER **DEAS Pico**

### TUBING/PUMP/BLADDER MATERIALS

☐ SILICON TUBING  
☐ TEFLON TUBING  
☐ TEFLON LINED TUBING  
☐ HDPE TUBING  
☐ LDPE TUBING  
☐ OTHER  
☐ OTHER

☐ S. STEEL PUMP MATERIAL  
☐ PVC PUMP MATERIAL  
☐ GEOPROBE SCREEN  
☐ TEFLON BLADDER  
☐ OTHER  
☐ OTHER  
☐ OTHER

### EQUIPMENT USED

☒ WL METER  
☐ PID  
☐ WQ METER  
☐ TURB. METER  
☐ PUMP  
☐ OTHER  
☐ FILTERS NO. \_\_\_\_\_ TYPE \_\_\_\_\_

## ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |

## PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☒

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED **5.28**

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

## NOTES:

stability achieved, samples collected

Sampler Signature:  
Checked By:

Print Name:  
Date:



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MW-29 | DATE<br>10/28/21 |
| START TIME<br>1124   | END TIME<br>1159 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

|        | WELL INTEGRITY |    |     |
|--------|----------------|----|-----|
|        | YES            | NO | N/A |
| CAP    | <del>X</del>   | —  | —   |
| CASING | <del>X</del>   | —  | —   |
| LOCKED | <del>X</del>   | —  | —   |
| COLLAR | <del>X</del>   | —  | —   |

|                                                                   |          |                                                                               |                         |                               |     |                            |         |
|-------------------------------------------------------------------|----------|-------------------------------------------------------------------------------|-------------------------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                                              | 6.42 FT  | FINAL DTW<br>(BMP)                                                            | 8.46 <del>7.46</del> FT | PROT. CASING<br>STICKUP (AGS) | FT  | TOC/TOR<br>DIFFERENCE      | FT      |
| WELL DEPTH<br>(BMP)                                               | 18.11 FT | SCREEN<br>LENGTH                                                              | FT                      | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                                                   | 11.69 FT | DRAWDOWN<br>VOLUME                                                            | .33 GAL                 | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL<br>(column X well diameter squared X 0.041) | 1.91 GAL | (initial DTW- final DTW X well diam. squared X 0.041)<br>TOTAL VOL.<br>PURGED | 10.4 GAL                | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |
|                                                                   |          | (mL per minute X total minutes X 0.00026 gal/mL)                              |                         |                               |     |                            |         |

[illegible]

| EQUIPMENT DOCUMENTATION             |             |                          |                 |                                     |                     |                                     |                              |
|-------------------------------------|-------------|--------------------------|-----------------|-------------------------------------|---------------------|-------------------------------------|------------------------------|
| TYPE OF PUMP                        |             | DECON FLUIDS USED        |                 | TUBING/PUMP/BLADDER MATERIALS       |                     | EQUIPMENT USED                      |                              |
| <input checked="" type="checkbox"/> | PERISTALTIC | <input type="checkbox"/> | LIQUINOX        | <input type="checkbox"/>            | SILICON TUBING      | <input checked="" type="checkbox"/> | WL METER _____               |
| <input type="checkbox"/>            | SUBMERSIBLE | <input type="checkbox"/> | DEIONIZED WATER | <input type="checkbox"/>            | TEFLON TUBING       | <input type="checkbox"/>            | PID _____                    |
| <input type="checkbox"/>            | BLADDER     | <input type="checkbox"/> | POTABLE WATER   | <input type="checkbox"/>            | TEFLON LINED TUBING | <input type="checkbox"/>            | WQ METER _____               |
| <input type="checkbox"/>            |             | <input type="checkbox"/> | NITRIC ACID     | <input checked="" type="checkbox"/> | HDPE TUBING         | <input checked="" type="checkbox"/> | TURB. METER _____            |
| <input type="checkbox"/>            | WATTEA      | <input type="checkbox"/> | HEXANE          | <input type="checkbox"/>            | LDPE TUBING         | <input checked="" type="checkbox"/> | PUMP _____                   |
| <input type="checkbox"/>            | OTHER _____ | <input type="checkbox"/> | METHANOL        | <input type="checkbox"/>            | OTHER _____         | <input type="checkbox"/>            | OTHER _____                  |
| <input type="checkbox"/>            | OTHER _____ | <input type="checkbox"/> | OTHER PLAS Free | <input type="checkbox"/>            | OTHER _____         | <input type="checkbox"/>            | FILTERS NO. _____ TYPE _____ |

| ANALYTICAL PARAMETERS |               |                |                     |                 |                  |              |                          |
|-----------------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| PARAMETER             | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |

|                                                                                                                                                  |                          |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| <b>PURGE OBSERVATIONS</b>                                                                                                                        |                          |                                     |
| PURGE WATER                                                                                                                                      | YES                      | NO                                  |
| CONTAINERIZED                                                                                                                                    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD                                                                                                                                  | YES                      | NO                                  |
| UTILIZED                                                                                                                                         | <input type="checkbox"/> | <input type="checkbox"/>            |
| NUMBER OF GALLONS GENERATED <u>11.4</u><br>If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location |                          |                                     |

NOTES: Stability achieved, samples taken

Sampler Signature:  
Checked By:



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>Mm-30 | DATE<br>10/28/21 |
| START TIME<br>1500   | END TIME<br>1525 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

## WELL INTEGRITY

|        | YES      | NO | N/A |
|--------|----------|----|-----|
| CAP    | <u>X</u> | —  | —   |
| CASING | <u>X</u> | —  | —   |
| LOCKED | <u>X</u> | —  | —   |
| COLLAR | <u>X</u> | —  | —   |

|                                                             |          |                                                                       |          |                            |     |                         |         |
|-------------------------------------------------------------|----------|-----------------------------------------------------------------------|----------|----------------------------|-----|-------------------------|---------|
| INITIAL DTW (BMP)                                           | 4.83 FT  | FINAL DTW (BMP)                                                       | 5.16 FT  | PROT. CASING STICKUP (AGS) | FT  | TOC/TOR DIFFERENCE      | FT      |
| WELL DEPTH (BMP)                                            | 17.84 FT | SCREEN LENGTH                                                         | FT       | PID AMBIENT AIR            | PPM | REFILL TIMER SETTING    | N/A SEC |
| WATER COLUMN                                                | 13.01 FT | DRAWDOWN VOLUME (initial DTW- final DTW X well diam. squared X 0.041) | 0.05 GAL | PID WELL MOUTH             | PPM | DISCHARGE TIMER SETTING | N/A SEC |
| CALCULATED GAL/VOL (column X well diameter squared X 0.041) | 2.12 GAL | TOTAL VOL. PURGED                                                     | 3.3 GAL  | DRAWDOWN/ TOTAL PURGED     |     | PRESSURE TO PUMP        | N/A PSI |

[illegible]

TYPE OF PUMP

|                                     |             |
|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | PERISTALTIC |
| <input type="checkbox"/>            | SUBMERSIBLE |
| <input type="checkbox"/>            | BLADDER     |
| <input type="checkbox"/>            | WATTERA     |
| <input type="checkbox"/>            | OTHER       |
| <input type="checkbox"/>            | OTHER       |

### DECON FLUIDS USED

|                          |                 |
|--------------------------|-----------------|
| <input type="checkbox"/> | LIQUINOX        |
| <input type="checkbox"/> | DEIONIZED WATER |
| <input type="checkbox"/> | POTABLE WATER   |
| <input type="checkbox"/> | NITRIC ACID     |
| <input type="checkbox"/> | HEXANE          |
| <input type="checkbox"/> | METHANOL        |
| <input type="checkbox"/> | OTHER PFAS Free |

## TUBING/PUMP/BLADDER MATERIALS

|   |                     |
|---|---------------------|
|   | SILICON TUBING      |
|   | TEFLON TUBING       |
|   | TEFLON LINED TUBING |
| X | HDPE TUBING         |
|   | LDPE TUBING         |
|   | OTHER _____         |
|   | OTHER _____         |

## STEEL PUMP MATERIAL.

|  |                        |
|--|------------------------|
|  | S. STEEL PUMP MATERIAL |
|  | PVC PUMP MATERIAL      |
|  | GEOPROBE SCREEN        |
|  | TEFLON BLADDER         |
|  | OTHER _____            |
|  | OTHER _____            |
|  | OTHER _____            |

#### EQUIPMENT USED

EQUIPMENT USED

WL METER \_\_\_\_\_  
PID \_\_\_\_\_  
WQ METER \_\_\_\_\_  
TURB. METER \_\_\_\_\_  
PUMP \_\_\_\_\_  
OTHER \_\_\_\_\_  
FILTERS \_\_\_\_\_ NO \_\_\_\_\_ TYPE \_\_\_\_\_

| ADDITIONAL PARAMETERS |               |                |                     |                 |                  |              |                          |
|-----------------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| PARAMETER             | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |

|                 |                          |                                     |
|-----------------|--------------------------|-------------------------------------|
| PURGE WATER     | YES                      | NO                                  |
| CONTAINERIZED   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD | YES                      | NO                                  |
| UTILIZED        | <input type="checkbox"/> | <input type="checkbox"/>            |

NUMBER OF GALLONS GENERATED 3.3

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ ml. for this sample location.

**NOTES.**

NOTES:  
stabilization achieved, sample taken

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>Mw-32 | DATE<br>10/28/21 |
| START TIME<br>1400   | END TIME<br>1430 |
| SITE NAME/NUMBER     | PAGE<br>OF 1     |

## WELL INTEGRITY

|        | YES      | NO | N/A |
|--------|----------|----|-----|
| CAP    | <u>X</u> | —  | —   |
| CASING | <u>X</u> | —  | —   |
| LOCKED | <u>X</u> | —  | —   |
| COLLAR | <u>X</u> | —  | —   |

|                                                                   |          |                                                                               |          |                               |     |                            |         |
|-------------------------------------------------------------------|----------|-------------------------------------------------------------------------------|----------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                                              | 4.35 FT  | FINAL DTW<br>(BMP)                                                            | 6.76 FT  | PROT. CASING<br>STICKUP (AGS) | FT  | TOC/TOR<br>DIFFERENCE      | FT      |
| WELL DEPTH<br>(BMP)                                               | 23.30 FT | SCREEN<br>LENGTH                                                              | FT       | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                                                   | 18.95 FT | DRAWDOWN<br>VOLUME                                                            | 3.39 GAL | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL<br>(column X well diameter squared X 0.041) | 2.38 GAL | (initial DTW- final DTW X well diam. squared X 0.041)<br>TOTAL VOL.<br>PURGED | 3.96 GAL | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |
|                                                                   |          | (mL per minute X total minutes X 0.00026 gal/mL)                              |          |                               |     |                            |         |

[illegible]

| TYPE OF PUMP                        |             | DECON FLUIDS USED        |                        | TUBING/PUMP/BLADDER MATERIALS       |                     | EQUIPMENT USED                      |                   |
|-------------------------------------|-------------|--------------------------|------------------------|-------------------------------------|---------------------|-------------------------------------|-------------------|
| <input checked="" type="checkbox"/> | PERISTALTIC | <input type="checkbox"/> | DIQUINOX               | <input type="checkbox"/>            | SILICON TUBING      | <input checked="" type="checkbox"/> | WL METER _____    |
| <input type="checkbox"/>            | SUBMERSIBLE | <input type="checkbox"/> | DEIONIZED WATER        | <input type="checkbox"/>            | TEFLON TUBING       | <input type="checkbox"/>            | PID _____         |
| <input type="checkbox"/>            | BLADDER     | <input type="checkbox"/> | POTABLE WATER          | <input type="checkbox"/>            | TEFLON LINED TUBING | <input type="checkbox"/>            | WQ METER _____    |
| <input type="checkbox"/>            | WATTEKA     | <input type="checkbox"/> | NITRIC ACID            | <input checked="" type="checkbox"/> | HDPE TUBING         | <input checked="" type="checkbox"/> | TURB. METER _____ |
| <input type="checkbox"/>            | OTHER _____ | <input type="checkbox"/> | HEXANE                 | <input type="checkbox"/>            | LDPE TUBING         | <input type="checkbox"/>            | PUMP _____        |
| <input type="checkbox"/>            | OTHER _____ | <input type="checkbox"/> | METHANOL               | <input type="checkbox"/>            | OTHER _____         | <input type="checkbox"/>            | OTHER _____       |
| <input type="checkbox"/>            | OTHER _____ | <input type="checkbox"/> | OTHER <i>PCAS Free</i> | <input type="checkbox"/>            | OTHER _____         | <input type="checkbox"/>            | FILTERS NO. TYPE  |

| PARAMETER                                                                                                                                                                                                                                                       |  | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| <div style="border: 1px solid black; width: 15px; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> |  |               |                |                     |                 |                  |              |                          |
|                                                                                                                                                                                                                                                                 |  |               |                |                     |                 |                  |              |                          |
|                                                                                                                                                                                                                                                                 |  |               |                |                     |                 |                  |              |                          |

|                                                                     |                          |                                     |
|---------------------------------------------------------------------|--------------------------|-------------------------------------|
| PURGE OBSERVATIONS                                                  |                          |                                     |
| PURGE WATER                                                         | YES                      | NO                                  |
| CONTAINERIZED                                                       | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD                                                     | YES                      | NO                                  |
| UTILIZED                                                            | <input type="checkbox"/> | <input type="checkbox"/>            |
| NUMBER OF GALLONS GENERATED                                         |                          | 4                                   |
| If yes, purged approximately 1 standing volume prior to sampling or |                          | mL for this sample location         |

**NOTES:**

stabilization achieved, sample collected

**Sampler Signature:**  
**Checked By:**

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

## LOW FLOW GROUNDWATER SAMPLING RECORD

|                |             |
|----------------|-------------|
| PROJECT NAME   |             |
| DFSP Verona    |             |
| PROJECT NUMBER |             |
| 14003.001      |             |
| SAMPLE ID      | SAMPLE TIME |
| MW-33R         | 1254        |

|                       |                  |
|-----------------------|------------------|
| LOCATION ID<br>NW-33R | DATE<br>10/29/21 |
| START TIME<br>9:10    | END TIME<br>1254 |
| SITE NAME/NUMBER      | PAGE<br>1 OF 1   |

WELL DIAMETER (INCHES) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER \_\_\_\_\_

TUBING ID (INCHES) ☐ 1/8 ☐ 3/16 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ OTHER \_\_\_\_\_

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER \_\_\_\_\_

| WELL INTEGRITY |                                     |                          |                          |
|----------------|-------------------------------------|--------------------------|--------------------------|
|                | YES                                 | NO                       | N/A                      |
| CAP            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                             |          |                                                                       |          |                            |  |                         |         |
|-------------------------------------------------------------|----------|-----------------------------------------------------------------------|----------|----------------------------|--|-------------------------|---------|
| INITIAL DTW (BMP)                                           | 3.84 FT  | FINAL DTW (BMP)                                                       | 17.20 FT | PROT. CASING STICKUP (AGS) |  | TOCTOR DIFFERENCE       |         |
| WELL DEPTH (BMP)                                            | 17.20 FT | SCREEN LENGTH                                                         |          | PID AMBIENT AIR            |  | REFILL TIMER SETTING    | N/A SEC |
| WATER COLUMN                                                | 13.36 FT | DRAWDOWN VOLUME (initial DTW- final DTW X well diam. squared X 0.041) | .55 GAL  | PID WELL MOUTH             |  | DISCHARGE TIMER SETTING | N/A SEC |
| CALCULATED GAL/VOL (column X well diameter squared X 0.041) | .55 GAL  | TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)    | .71 GAL  | DRAWDOWN/ TOTAL PURGED     |  | PRESSURE TO PUMP        | N/A PSI |

[illegible]

| EQUIPMENT DOCUMENTATION             |             | TYPE OF PUMP             |                        | DECON FLUIDS USED                   |                     | TUBING/PUMP/BLADDER MATERIALS |                        | EQUIPMENT USED                      |                   |
|-------------------------------------|-------------|--------------------------|------------------------|-------------------------------------|---------------------|-------------------------------|------------------------|-------------------------------------|-------------------|
| <input checked="" type="checkbox"/> | PERISTALTIC | <input type="checkbox"/> | LIQUINOX               | <input type="checkbox"/>            | SILICON TUBING      | <input type="checkbox"/>      | S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> | WL METER _____    |
| <input type="checkbox"/>            | SUBMERSIBLE | <input type="checkbox"/> | DEIONIZED WATER        | <input type="checkbox"/>            | TEFLON TUBING       | <input type="checkbox"/>      | PVC PUMP MATERIAL      | <input type="checkbox"/>            | FID _____         |
| <input type="checkbox"/>            | BLADDER     | <input type="checkbox"/> | POTABLE WATER          | <input type="checkbox"/>            | TEFLON LINED TUBING | <input type="checkbox"/>      | GEOPROBE SCREEN        | <input type="checkbox"/>            | WQ METER _____    |
| <input type="checkbox"/>            |             | <input type="checkbox"/> | NITRIC ACID            | <input checked="" type="checkbox"/> | HDPE TUBING         | <input type="checkbox"/>      | TEFLON BLADDER         | <input checked="" type="checkbox"/> | TURB. METER _____ |
| <input type="checkbox"/>            | WATTERA     | <input type="checkbox"/> | HEXANE                 | <input type="checkbox"/>            | LDPE TUBING         | <input type="checkbox"/>      | OTHER _____            | <input checked="" type="checkbox"/> | PUMP _____        |
| <input type="checkbox"/>            | OTHER _____ | <input type="checkbox"/> | METHANOL               | <input type="checkbox"/>            | OTHER _____         | <input type="checkbox"/>      | OTHER _____            | <input type="checkbox"/>            | OTHER _____       |
| <input type="checkbox"/>            | OTHER _____ | <input type="checkbox"/> | OTHER <i>PFAS Free</i> | <input type="checkbox"/>            | OTHER _____         | <input type="checkbox"/>      | OTHER _____            | <input type="checkbox"/>            | FILTERS NO. TYPE  |

| ANALYTICAL PARAMETERS |               |                |                     |                 |                  |              |                          |
|-----------------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| PARAMETER             | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |

| PURGE OBSERVATIONS |                          |                                     |                                                                                                     |
|--------------------|--------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| PURGE WATER        | YES                      | NO                                  | NUMBER OF GALLONS<br>GENERATED                                                                      |
| CONTAINERIZED      | <input type="checkbox"/> | <input checked="" type="checkbox"/> |                                                                                                     |
| NO-PURGE METHOD    | YES                      | NO                                  | If yes, purged approximately 1 standing volume prior<br>to sampling or mL for this sample location. |
| UTILIZED           | <input type="checkbox"/> | <input type="checkbox"/>            |                                                                                                     |

**NOTES:**  
Dry at 9:30. Inadequate recovery at 9:00 10/29/21  
Sample collected

Sampler Signature: \_\_\_\_\_  
Checked By: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MW-35 | DATE<br>1200     |
| START TIME<br>1130   | END TIME<br>1200 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

|        | WELL INTEGRITY                      |                          |                          |
|--------|-------------------------------------|--------------------------|--------------------------|
|        | YES                                 | NO                       | N/A                      |
| CAP    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                             |          |                                                                       |          |                            |     |                         |         |
|-------------------------------------------------------------|----------|-----------------------------------------------------------------------|----------|----------------------------|-----|-------------------------|---------|
| INITIAL DTW (BMP)                                           | 2.42 FT  | FINAL DTW (BMP)                                                       | 3.55 FT  | PROT. CASING STICKUP (AGS) | FT  | TOC/TOR DIFFERENCE      | FT      |
| WELL DEPTH (BMP)                                            | 17.60 FT | SCREEN LENGTH (BMP)                                                   | FT       | PID AMBIENT AIR            | PPM | REFILL TIMER SETTING    | N/A SEC |
| WATER COLUMN                                                | 15.18 FT | DRAWDOWN VOLUME (initial DTW- final DTW X well diam. squared X 0.041) | 18 GAL   | PID WELL MOUTH             | PPM | DISCHARGE TIMER SETTING | N/A SEC |
| CALCULATED GAL/VOL (column X well diameter squared X 0.041) | 2.48 GAL | TOTAL VOL. PURGED                                                     | 3.96 GAL | DRAWDOWN/ TOTAL PURGED     |     | PRESSURE TO PUMP        | N/A PSI |

[illegible]

☒ PERISTALTIC  
☐ SUBMERSIBLE  
☐ BLADDER

☐ WATTERA  
☐ OTHER  
☐ OTHER

LIQUINOX  
DEIONIZED WATER  
POTABLE WATER  
NITRIC ACID  
HEXANE  
METHANOL  
OTHER PPA's Free

SILICON TUBING  
TEFLON TUBING  
TEFLON LINED TUBING  
HDPE TUBING  
LDPE TUBING  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

S. STEEL PUMP MATERIAL  
PVC PUMP MATERIAL  
GEOPROBE SCREEN  
TEFLON BLADDER  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| <div style="writing-mode: vertical-rl; transform: rotate(180deg);">             1<br/>2<br/>3<br/>4<br/>5<br/>6<br/>7<br/>8<br/>9<br/>10<br/>11<br/>12<br/>13<br/>14<br/>15<br/>16<br/>17<br/>18<br/>19<br/>20<br/>21<br/>22<br/>23<br/>24<br/>25<br/>26<br/>27<br/>28<br/>29<br/>30<br/>31<br/>32<br/>33<br/>34<br/>35<br/>36<br/>37<br/>38<br/>39<br/>40<br/>41<br/>42<br/>43<br/>44<br/>45<br/>46<br/>47<br/>48<br/>49<br/>50<br/>51<br/>52<br/>53<br/>54<br/>55<br/>56<br/>57<br/>58<br/>59<br/>60<br/>61<br/>62<br/>63<br/>64<br/>65<br/>66<br/>67<br/>68<br/>69<br/>70<br/>71<br/>72<br/>73<br/>74<br/>75<br/>76<br/>77<br/>78<br/>79<br/>80<br/>81<br/>82<br/>83<br/>84<br/>85<br/>86<br/>87<br/>88<br/>89<br/>90<br/>91<br/>92<br/>93<br/>94<br/>95<br/>96<br/>97<br/>98<br/>99<br/>100           </div> | WL METER _____            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PID _____                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | WQ METER _____            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | TURB. METER _____         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PUMP _____                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OTHER _____               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FILTERS NO. TYPE<br>_____ |

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |

|                 |                          |                                     |
|-----------------|--------------------------|-------------------------------------|
| PURGE WATER     | YES                      | NO                                  |
| CONTAINERIZED   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD | YES                      | NO                                  |
| UTILIZED        | <input type="checkbox"/> | <input type="checkbox"/>            |

NUMBER OF GALLONS GENERATED 4

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

Stability achieved, sample collected

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MW-36 | DATE<br>10/28/21 |
| START TIME<br>12:22  | END TIME<br>1310 |
| SITE NAME/NUMBER     | PAGE<br>OF 1     |

|                                                                   |          |                                                                          |          |                               |     |                            |         |
|-------------------------------------------------------------------|----------|--------------------------------------------------------------------------|----------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                                              | 3.81 FT  | FINAL DTW<br>(BMP)                                                       | 4.44 FT  | PROT. CASING<br>STICKUP (AGS) | FT  | TOC/TOR<br>DIFFERENCE      | FT      |
| WELL DEPTH<br>(BMP)                                               | 17.6 FT  | SCREEN<br>LENGTH                                                         | FT       | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                                                   | 13.79 FT | DRAWDOWN<br>VOLUME                                                       | 0.03 GAL | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL<br>(column X well diameter squared X 0.041) | 56 GAL   | TOTAL VOL.<br>PURGED<br>(mL per minute X total minutes X 0.00026 gal/mL) | 3.7 GAL  | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |

| EQUIPMENT DOCUMENTATION             |             |  | TUBING/PUMP/BLADDER MATERIALS       |                 |  | EQUIPMENT USED |                        |                                     |             |
|-------------------------------------|-------------|--|-------------------------------------|-----------------|--|----------------|------------------------|-------------------------------------|-------------|
| TYPE OF PUMP                        |             |  |                                     |                 |  |                |                        |                                     |             |
| <input checked="" type="checkbox"/> | PERISTALTIC |  |                                     | LIQUINOX        |  |                | S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> | WL METER    |
| <input type="checkbox"/>            | SUBMERSIBLE |  |                                     | DEIONIZED WATER |  |                | PVC PUMP MATERIAL      | <input type="checkbox"/>            | PID         |
| <input type="checkbox"/>            | BLADDER     |  |                                     | POTABLE WATER   |  |                | GEOPROBE SCREEN        | <input type="checkbox"/>            | WQ METER    |
|                                     |             |  |                                     | NITRIC ACID     |  |                | TEFLON BLADDER         | <input type="checkbox"/>            | TURB. METER |
|                                     | WATTERA     |  | <input checked="" type="checkbox"/> | HDPE TUBING     |  |                | OTHER                  | <input checked="" type="checkbox"/> | PUMP        |
|                                     | OTHER       |  |                                     | LDPE TUBING     |  |                | OTHER                  | <input type="checkbox"/>            | OTHER       |
|                                     | OTHER       |  |                                     | METHANOL        |  |                | OTHER                  | <input type="checkbox"/>            | FILTERS     |
|                                     |             |  |                                     | OTHER (FAs Proc |  |                | OTHER                  | <input type="checkbox"/>            | NO.         |
|                                     |             |  |                                     |                 |  |                |                        | <input type="checkbox"/>            | TYPE        |

|                           |                          |                                     |                                                                     |                                                                                                 |
|---------------------------|--------------------------|-------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>PURGE OBSERVATIONS</b> |                          |                                     | <b>NOTES:</b>                                                       |                                                                                                 |
| PURGE WATER               | YES                      | NO                                  | NUMBER OF GALLONS                                                   | <div style="font-size: 1.2em; margin-bottom: 10px;">Stability achieved, Samples collected</div> |
| CONTAINERIZED             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | GENERATED                                                           |                                                                                                 |
| NO-PURGE METHOD           | YES                      | NO                                  | If yes, purged approximately 1 standing volume prior to samolina or |                                                                                                 |
| UTILIZED                  | <input type="checkbox"/> | <input type="checkbox"/>            | mL for this sample location.                                        |                                                                                                 |
|                           |                          |                                     | Sampler Signature:                                                  | Print Name:                                                                                     |
|                           |                          |                                     | Checked By:                                                         | Date:                                                                                           |



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>Mw-38 | DATE<br>10/29/21 |
| START TIME<br>955    | END TIME<br>1305 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

## WELL INTEGRITY

|        | YES      | NO          | N/A         |
|--------|----------|-------------|-------------|
| CAP    | <u>X</u> | <u>    </u> | <u>    </u> |
| CASING | <u>X</u> | <u>    </u> | <u>    </u> |
| LOCKED | <u>X</u> | <u>    </u> | <u>    </u> |
| COLLAR | <u>X</u> | <u>    </u> | <u>    </u> |

|                                                                   |          |                                                                             |          |                               |     |                            |         |
|-------------------------------------------------------------------|----------|-----------------------------------------------------------------------------|----------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                                              | 4.64 FT  | FINAL DTW<br>(BMP)                                                          | 14.6 FT  | PROT. CASING<br>STICKUP (AGS) | FT  | TOC/TOR<br>DIFFERENCE      | FT      |
| WELL DEPTH<br>(BMP)                                               | 14.60 FT | SCREEN<br>LENGTH                                                            | FT       | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                                                   | 9.96 FT  | DRAWDOWN<br>VOLUME<br>(initial DTW- final DTW X well diam. squared X 0.041) | .41 GAL  | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL<br>(column X well diameter squared X 0.041) | .41 GAL  | TOTAL VOL.<br>PURGED<br>(mL per minute X total minutes X 0.00026 gal/mL)    | 28.5 GAL | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |

[illegible]

TYPE OF PUMP

### DECON FLUIDS USED

TUBING/PUMP/BLADDER MATERIALS

S. STEEL PUMP MATERIAL  
PVC PUMP MATERIAL  
GEOPROBE SCREEN  
TEFLON BLADDER  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

#### EQUIPMENT USED

WL METER \_\_\_\_\_  
PID \_\_\_\_\_  
WQ METER \_\_\_\_\_  
TURB. METER \_\_\_\_\_  
PUMP \_\_\_\_\_  
OTHER \_\_\_\_\_  
FILTERS NO. \_\_\_\_\_ TYPE \_\_\_\_\_

## PARAMETER

|  |
|--|
|  |
|  |
|  |

SAMPLE BOTTLE ID  
NUMBERS

NUMBER OF GALLONS GENERATED 5

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**NOTES:**

Dry at 10:10. Sampled at 1305

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_





## LOW FLOW GROUNDWATER SAMPLING RECORD

|                                    |                             |
|------------------------------------|-----------------------------|
| PROJECT NAME<br><b>DESP UCRONA</b> |                             |
| PROJECT NUMBER<br><b>14003.001</b> |                             |
| SAMPLE ID<br><b>MW-40</b>          | SAMPLE TIME<br><b>12:40</b> |

|                             |                          |
|-----------------------------|--------------------------|
| LOCATION ID<br><b>MW-40</b> | DATE<br><b>10/29/21</b>  |
| START TIME<br><b>11:48</b>  | END TIME<br><b>12:38</b> |
| SITE NAME/NUMBER            | PAGE<br>OF               |

WELL DIAMETER (INCHES) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER \_\_\_\_\_

TUBING ID (INCHES) ☐ 1/8 ☐ 3/16 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ OTHER \_\_\_\_\_

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER \_\_\_\_\_

WELL INTEGRITY

|                                     |                          |                          |
|-------------------------------------|--------------------------|--------------------------|
| YES                                 | NO                       | N/A                      |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                                                  |                                                                                             |                                        |                                           |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|
| INITIAL DTW (BMP)<br><b>2.6</b> FT                                               | FINAL DTW (BMP)<br><b>6.75</b> FT                                                           | PROT. CASING STICKUP (AGS)<br>_____ FT | TOC/TOR DIFFERENCE<br>_____ FT            |
| WELL DEPTH (BMP)<br><b>10.5</b> FT                                               | SCREEN LENGTH<br>_____ FT                                                                   | PID AMBIENT AIR<br>_____ PPM           | REFILL TIMER SETTING<br><b>N/A</b> SEC    |
| WATER COLUMN<br><b>7.9</b> FT                                                    | DRAWDOWN VOLUME<br><b>.17</b> GAL<br>(Initial DTW - final DTW X well diam. squared X 0.041) | PID WELL MOUTH<br>_____ PPM            | DISCHARGE TIMER SETTING<br><b>N/A</b> SEC |
| CALCULATED GAL/VOL<br><b>.32</b> GAL<br>(column X well diameter squared X 0.041) | TOTAL VOL. PURGED<br><b>6.14</b> GAL<br>(mL per minute X total minutes X 0.00026 gal/mL)    | DRAWDOWN/ TOTAL PURGED<br>_____        | PRESSURE TO PUMP<br><b>N/A</b> PSI        |

## FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME<br>3-5 Minutes | DTW (FT)<br>0.0-0.33 ft | PURGE RATE<br>(mL/min) | TEMP. (°C)<br>(+/- 3 %) | SP. CONDUCTANCE<br>(mS/cm) (+/- 3%) | pH (units)<br>(+/- 0.1 units) | DISS. O <sub>2</sub> (mg/L)<br>(+/- 10% or <0.5) | TURBIDITY (ntu)<br>(+/- 10% or <5) | ORP (mv)<br>(+/- 10 mv) | PUMP<br>INTAKE | COMMENTS |
|---------------------|-------------------------|------------------------|-------------------------|-------------------------------------|-------------------------------|--------------------------------------------------|------------------------------------|-------------------------|----------------|----------|
| BEGIN PURGING       |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
| 11:48               | 2.6                     | 450                    | 15                      | 1023                                | 7.0                           | 6.68                                             | 19.7                               | -36.2                   |                |          |
| 11:53               | 3.87                    | 450                    | 15                      | 1047                                | 6.7                           | 2.41                                             | 45.6                               | -43.8                   |                |          |
| 11:58               | 5.95                    | 450                    | 15                      | 1051                                | 6.7                           | 1.32                                             | 18.2                               | -47.5                   |                |          |
| 12:03               | 5.97                    | 450                    | 14                      | 1046                                | 6.7                           | 1.20                                             | 11.6                               | -48.9                   |                |          |
| 12:08               | 6.02                    | 450                    | 14                      | 1052                                | 6.7                           | 1.79                                             | 9.4                                | -51.5                   |                |          |
| 12:13               | 6.18                    | 450                    | 14                      | 1052                                | 6.7                           | .80                                              | 17.9                               | -56.1                   |                |          |
| 12:18               | 6.41                    | 450                    | 14                      | 1053                                | 6.6                           | 1.04                                             | 17.4                               | -59.1                   |                |          |
| 12:23               | 6.75                    | 500                    | 14                      | 1051                                | 6.6                           | .51                                              | 17.5                               | -61.9                   |                |          |
| 12:28               | 6.75                    | 500                    | 14                      | 1052                                | 6.7                           | .43                                              | 6.01                               | -68.9                   |                |          |
| 12:32               | 6.75                    | 500                    | 14                      | 1053                                | 6.7                           | .36                                              | 5.98                               | -64.5                   |                |          |
| 12:38               | 6.75                    | 500                    | 14                      | 1053                                | 6.7                           | .34                                              | 5.78                               | -65.8                   |                |          |

## EQUIPMENT DOCUMENTATION

|                                                 |                                        |                                                 |                                          |                                                   |                                                 |                                                 |                      |
|-------------------------------------------------|----------------------------------------|-------------------------------------------------|------------------------------------------|---------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------|
| TYPE OF PUMP                                    |                                        | DECON FLUIDS USED                               |                                          | TUBING/PUMP/BLADDER MATERIALS                     |                                                 | EQUIPMENT USED                                  |                      |
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> SUBMERSIBLE   | <input type="checkbox"/> LIQUINOX               | <input type="checkbox"/> DEIONIZED WATER | <input type="checkbox"/> SILICON TUBING           | <input type="checkbox"/> S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> WL METER    | _____                |
| <input type="checkbox"/> BLADDER                | <input type="checkbox"/> POTABLE WATER | <input type="checkbox"/> NITRIC ACID            | <input type="checkbox"/> HEXANE          | <input checked="" type="checkbox"/> TEFLON TUBING | <input type="checkbox"/> PVC PUMP MATERIAL      | <input type="checkbox"/> PID                    | _____                |
| <input type="checkbox"/> WATTEA                 | <input type="checkbox"/> METHANOL      | <input type="checkbox"/> OTHER <i>DEAS Free</i> | <input type="checkbox"/> OTHER           | <input type="checkbox"/> TEFLON LINED TUBING      | <input type="checkbox"/> GEOPROBE SCREEN        | <input type="checkbox"/> WQ METER               | _____                |
| <input type="checkbox"/> OTHER                  |                                        |                                                 |                                          | <input type="checkbox"/> HDPE TUBING              | <input type="checkbox"/> TEFLON BLADDER         | <input checked="" type="checkbox"/> TURB. METER | _____                |
|                                                 |                                        |                                                 |                                          | <input type="checkbox"/> LDPE TUBING              | <input type="checkbox"/> OTHER                  | <input checked="" type="checkbox"/> PUMP        | _____                |
|                                                 |                                        |                                                 |                                          | <input type="checkbox"/> OTHER                    | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER                  | _____                |
|                                                 |                                        |                                                 |                                          |                                                   |                                                 | <input type="checkbox"/> FILTERS                | NO. _____ TYPE _____ |

## ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| _____     | _____         | _____          | _____               | _____           | _____            | _____        | _____                    |
| _____     | _____         | _____          | _____               | _____           | _____            | _____        | _____                    |
| _____     | _____         | _____          | _____               | _____           | _____            | _____        | _____                    |

## PURGE OBSERVATIONS

|                           |                              |                                        |                                                                                                        |
|---------------------------|------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------|
| PURGE WATER CONTAINERIZED | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | NUMBER OF GALLONS GENERATED<br><b>6.14</b>                                                             |
| NO-PURGE METHOD UTILIZED  | YES <input type="checkbox"/> | NO <input type="checkbox"/>            | If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location. |

## NOTES:

Sampler Signature:  
Checked By:

Print Name:  
Date:

# LOW FLOW GROUNDWATER SAMPLING RECORD



|                                    |                             |
|------------------------------------|-----------------------------|
| PROJECT NAME<br><b>DFSP VERONA</b> |                             |
| PROJECT NUMBER<br><b>14003.001</b> |                             |
| SAMPLE ID<br><b>MW-41</b>          | SAMPLE TIME<br><b>10:47</b> |

|                             |                          |
|-----------------------------|--------------------------|
| LOCATION ID<br><b>MW-41</b> | DATE<br><b>10/29/21</b>  |
| START TIME<br><b>10:15</b>  | END TIME<br><b>10:47</b> |
| SITE NAME/NUMBER            | PAGE<br><b>1 OF 1</b>    |

WELL DIAMETER (INCHES) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER \_\_\_\_\_

TUBING ID (INCHES) ☐ 1/8 ☐ 3/16 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ OTHER \_\_\_\_\_

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER \_\_\_\_\_

## WELL INTEGRITY

|        | YES                                 | NO                       | N/A                      |
|--------|-------------------------------------|--------------------------|--------------------------|
| CAP    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                                                |                                                                                              |                                        |                                    |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
| INITIAL DTW (BMP)<br><b>7.04</b> FT                                            | FINAL DTW (BMP)<br><b>8.58</b> FT                                                            | PROT. CASING STICKUP (AGS)<br>_____ FT | TOC/TOR DIFFERENCE<br>_____ FT     |
| WELL DEPTH (BMP)<br><b>12</b> FT                                               | SCREEN LENGTH<br>_____ FT                                                                    | PID AMBIENT AIR<br>_____ PPM           | REFILL TIMER SETTING<br>N/A SEC    |
| WATER COLUMN<br><b>4.96</b> FT                                                 | DRAWDOWN VOLUME<br><b>1.06</b> GAL<br>(initial DTW - final DTW X well diam. squared X 0.041) | PID WELL MOUTH<br>_____ PPM            | DISCHARGE TIMER SETTING<br>N/A SEC |
| CALCULATED GAL/VOL<br><b>2</b> GAL<br>(column X well diameter squared X 0.041) | TOTAL VOL. PURGED<br><b>2.2</b> GAL<br>(mL per minute X total minutes X 0.00026 gal/mL)      | DRAWDOWN/ TOTAL PURGED<br>_____        | PRESSURE TO PUMP<br>N/A PSI        |

## FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME<br>3-5 Minutes | DTW (FT)<br>0.0-0.33 ft | PURGE RATE<br>(mL/min) | TEMP. (°C)<br>(+/- 3 %) | SP. CONDUCTANCE<br>(mS/cm) (+/- 3%) | pH (units)<br>(+/- 0.1 units) | DISS. O <sub>2</sub> (mg/L)<br>(+/- 10% or <0.5) | TURBIDITY (ntu)<br>(+/- 10% or <5) | ORP (mv)<br>(+/- 10 mv) | PUMP<br>INTAKE | COMMENTS |
|---------------------|-------------------------|------------------------|-------------------------|-------------------------------------|-------------------------------|--------------------------------------------------|------------------------------------|-------------------------|----------------|----------|
| BEGIN PURGING       |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
| 10:15               | 7.04                    | 250                    | 14                      | 805                                 | 6.7                           | 2.48                                             | 78.1                               | -40.6                   |                |          |
| 10:20               | 8.58                    | 250                    | 14                      | 805                                 | 6.6                           | 2.15                                             | 41.5                               | -46.2                   |                |          |
| 10:25               | 8.58                    | 250                    | 14                      | 807                                 | 6.6                           | 1.97                                             | 17.9                               | -48.2                   |                |          |
| 10:30               | 8.58                    | 350                    | 15                      | 808                                 | 6.5                           | 1.68                                             | 5.33                               | -47.7                   |                |          |
| 10:35               | 8.58                    | 400                    | 15                      | 811                                 | 6.5                           | 1.56                                             | 3.75                               | -48.9                   |                |          |
| 10:40               | 8.58                    | 400                    | 15                      | 813                                 | 6.5                           | 1.48                                             | 2.15                               | -51.5                   |                |          |
| 10:45               | 8.58                    | 400                    | 15                      | 813                                 | 6.5                           | 1.46                                             | 2.33                               | -53.1                   |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |
|                     |                         |                        |                         |                                     |                               |                                                  |                                    |                         |                |          |

## EQUIPMENT DOCUMENTATION

| TYPE OF PUMP                                    |                                        | DECON FLUIDS USED                    |                                                 | TUBING/PUMP/BLADDER MATERIALS                |                                                 | EQUIPMENT USED                               |                     |
|-------------------------------------------------|----------------------------------------|--------------------------------------|-------------------------------------------------|----------------------------------------------|-------------------------------------------------|----------------------------------------------|---------------------|
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> SUBMERSIBLE   | <input type="checkbox"/> LIQUINOX    | <input type="checkbox"/> DEIONIZED WATER        | <input type="checkbox"/> SILICON TUBING      | <input type="checkbox"/> S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> WL METER | _____               |
| <input type="checkbox"/> BLADDER                | <input type="checkbox"/> POTABLE WATER | <input type="checkbox"/> NITRIC ACID | <input checked="" type="checkbox"/> HDPE TUBING | <input type="checkbox"/> TEFLON TUBING       | <input type="checkbox"/> PVC PUMP MATERIAL      | <input type="checkbox"/> PID                 | _____               |
| <input type="checkbox"/> WATTERA                | <input type="checkbox"/> HEXANE        | <input type="checkbox"/> METHANOL    | <input type="checkbox"/> OTHER <b>PFAS Free</b> | <input type="checkbox"/> TEFLON LINED TUBING | <input type="checkbox"/> GEOPROBE SCREEN        | <input type="checkbox"/> WQ METER            | _____               |
| <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER         | <input type="checkbox"/> OTHER       |                                                 | <input type="checkbox"/> LDPE TUBING         | <input type="checkbox"/> TEFLON BLADDER         | <input type="checkbox"/> TURB. METER         | _____               |
| <input type="checkbox"/> OTHER                  |                                        |                                      |                                                 | <input type="checkbox"/> OTHER               | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> PUMP                | _____               |
|                                                 |                                        |                                      |                                                 | <input type="checkbox"/> OTHER               | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER               | _____               |
|                                                 |                                        |                                      |                                                 |                                              |                                                 | <input type="checkbox"/> FILTERS             | NO _____ TYPE _____ |

## ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |

## PURGE OBSERVATIONS

|                           |                              |                                        |                                                                                                  |            |
|---------------------------|------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|------------|
| PURGE WATER CONTAINERIZED | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> | NUMBER OF GALLONS GENERATED                                                                      | <b>2.2</b> |
| NO-PURGE METHOD UTILIZED  | YES <input type="checkbox"/> | NO <input type="checkbox"/>            | If yes, purged approximately 1 standing volume prior to sampling or mL for this sample location. |            |

## NOTES:

Stability achieved, samples taken

Sampler Signature:  
Checked By:

Print Name:  
Date:



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MW-42 | DATE<br>10/29/21 |
| START TIME<br>9:30   | END TIME<br>9:47 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

|        | WELL INTEGRITY |    |     |
|--------|----------------|----|-----|
|        | YES            | NO | N/A |
| CAP    | <del>X</del>   | —  | —   |
| CASING | <del>X</del>   | —  | —   |
| LOCKED | <del>X</del>   | —  | —   |
| COLLAR | X              | —  | —   |

|                                                             |         |                                                                        |         |                            |     |                         |         |
|-------------------------------------------------------------|---------|------------------------------------------------------------------------|---------|----------------------------|-----|-------------------------|---------|
| INITIAL DTW (BMP)                                           | 7.12 FT | FINAL DTW (BMP)                                                        | 9.40 FT | PROT. CASING STICKUP (AGS) | FT  | TOC/TOR DIFFERENCE      | FT      |
| WELL DEPTH (BMP)                                            | 10 FT   | SCREEN LENGTH                                                          | FT      | PID AMBIENT AIR            | PPM | REFILL TIMER SETTING    | N/A SEC |
| WATER COLUMN                                                | 2.88 FT | DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) | .09 GAL | PID WELL MOUTH             | PPM | DISCHARGE TIMER SETTING | N/A SEC |
| CALCULATED GAL/VOL (column X well diameter squared X 0.041) | .12 GAL | TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)     | .99 GAL | DRAWDOWN/ TOTAL PURGED     |     | PRESSURE TO PUMP        | N/A PSI |

EQUIPMENT DOCUMENTATION  
TYPE OF PUMP

### DECON FLUIDS USED

### TUBING/PUMP/BLADDER MATERIALS

S. STEEL PUMP MATERIAL  
 PVC PUMP MATERIAL  
 GEOPROBE SCREEN  
 TEFLON BLADDER  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

### EQUIPMENT USED

EQUIPMENT USED

|             |                      |
|-------------|----------------------|
| WL METER    | _____                |
| PID         | _____                |
| WQ METER    | _____                |
| TURB. METER | _____                |
| PUMP        | _____                |
| OTHER       | _____                |
| FILTERS     | NO. _____ TYPE _____ |

### ANALYTICAL PARAMETERS

[illegible]

## PURGE OBSERVATIONS

|                 |                          |                                     |
|-----------------|--------------------------|-------------------------------------|
| PURGE WATER     | YES                      | NO                                  |
| CONTAINERIZED   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD | YES                      | NO                                  |
| UTILIZED        | <input type="checkbox"/> | <input type="checkbox"/>            |

NUMBER OF GALLONS GENERATED 996

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**NOTES:**

S: Stabilization achieved, sample taken

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>NW-43 | DATE<br>10/27/21 |
| START TIME<br>1609   | END TIME<br>1638 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

[illegible]

| ANALYTICAL PARAMETERS |               |                |                     |                 |                  |              |                          |
|-----------------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| PARAMETER             | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |

|                           |                          |                                     |                                                                                                        |                                           |
|---------------------------|--------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------|
| <b>PURGE OBSERVATIONS</b> |                          |                                     | <b>NOTES:</b>                                                                                          |                                           |
| PURGE WATER               | YES                      | NO                                  | NUMBER OF GALLONS                                                                                      | stabilization achieved, samples collected |
| CONTAINERIZED             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | GENERATED                                                                                              | <u>1.59</u>                               |
| NO-PURGE METHOD           | YES                      | NO                                  | If yes, purged approximately 1 standing volume prior to sampling or _____ mL for this sample location. |                                           |
| UTILIZED                  | <input type="checkbox"/> | <input type="checkbox"/>            | Sampler Signature:                                                                                     | Print Name:                               |
|                           |                          |                                     | Checked By:                                                                                            | Date:                                     |

# LOW FLOW GROUNDWATER SAMPLING RECORD



|                                    |                            |
|------------------------------------|----------------------------|
| PROJECT NAME<br><b>DFSP VERONA</b> |                            |
| PROJECT NUMBER<br><b>14063.001</b> |                            |
| SAMPLE ID<br><b>MW-44</b>          | SAMPLE TIME<br><b>1419</b> |

|                             |                              |
|-----------------------------|------------------------------|
| LOCATION ID<br><b>MW-44</b> | DATE<br><b>10/27/21</b>      |
| START TIME<br><b>1351</b>   | END TIME<br><b>1416</b>      |
| SITE NAME/NUMBER            | PAGE<br><b>1</b> OF <b>1</b> |

WELL DIAMETER (INCHES) ☒ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER \_\_\_\_\_

TUBING ID (INCHES) ☐ 1/8 ☐ 3/16 ☐ 1/4 ☐ 3/8 ☐ 1/2 ☐ OTHER \_\_\_\_\_

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER \_\_\_\_\_

## WELL INTEGRITY

|        | YES                                 | NO                       | N/A                      |
|--------|-------------------------------------|--------------------------|--------------------------|
| CAP    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                                                                 |                                                                                              |                                        |                                    |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
| INITIAL DTW (BMP)<br><b>3.15</b> FT                                             | FINAL DTW (BMP)<br><b>4.75</b> FT                                                            | PROT. CASING STICKUP (AGS)<br>_____ FT | TOC/TOR DIFFERENCE<br>_____ FT     |
| WELL DEPTH (BMP)<br><b>15</b> FT                                                | SCREEN LENGTH<br>_____ FT                                                                    | PID AMBIENT AIR<br>_____ PPM           | REFILL TIMER SETTING<br>N/A SEC    |
| WATER COLUMN<br><b>11.85</b> FT                                                 | DRAWDOWN VOLUME<br><b>.075</b> GAL<br>(initial DTW - final DTW X well diam. squared X 0.041) | PID WELL MOUTH<br>_____ PPM            | DISCHARGE TIMER SETTING<br>N/A SEC |
| CALCULATED GAL/VOL<br><b>.5</b> GAL<br>(column X well diameter squared X 0.041) | TOTAL VOL. PURGED<br><b>.325</b> GAL<br>(mL per minute X total minutes X 0.00026 gal/mL)     | DRAWDOWN/ TOTAL PURGED<br>_____        | PRESSURE TO PUMP<br>N/A PSI        |

## FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

| TIME<br>3-5 Minutes  | DTW (FT)<br>0.0-0.33 ft | PURGE RATE<br>(mL/min) | TEMP. (°C)<br>(+/- 3%) | SP. CONDUCTANCE<br>(mS/cm) (+/- 3%) | pH (units)<br>(+/- 0.1 units) | DISS. O <sub>2</sub> (mg/L)<br>(+/- 10% or <0.5) | TURBIDITY (ntu)<br>(+/- 10% or <5) | ORP (mv)<br>(+/- 10 mv) | PUMP<br>INTAKE | COMMENTS |
|----------------------|-------------------------|------------------------|------------------------|-------------------------------------|-------------------------------|--------------------------------------------------|------------------------------------|-------------------------|----------------|----------|
| <b>BEGIN PURGING</b> |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
| 1:51                 | 4.34                    | 200                    | 14                     | 842                                 | 6.5                           | .41                                              | 19.9                               | -70.1                   |                |          |
| 1:56                 | 4.73                    | 200                    | 14                     | 835                                 | 6.2                           | .24                                              | 37.3                               | -48.8                   |                |          |
| 2:01                 | 4.75                    | 200                    | 14                     | 834                                 | 6.2                           | .25                                              | 28.4                               | -48.8                   |                |          |
| 2:06                 | 4.73                    | 200                    | 14                     | 833                                 | 6.2                           | .37                                              | 10.5                               | -49.2                   |                |          |
| 2:11                 | 4.75                    | 200                    | 14                     | 834                                 | 6.1                           | .41                                              | 9.42                               | -52.4                   |                |          |
| 2:16                 | 4.75                    | 200                    | 14                     | 833                                 | 6.2                           | .44                                              | 8.88                               | -53.1                   |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |
|                      |                         |                        |                        |                                     |                               |                                                  |                                    |                         |                |          |

## EQUIPMENT DOCUMENTATION

| TYPE OF PUMP                                    |                                                  | DECON FLUIDS USED                               |                                                 | TUBING/PUMP/BLADDER MATERIALS                |           | EQUIPMENT USED |  |
|-------------------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------|-----------|----------------|--|
| <input checked="" type="checkbox"/> PERISTALTIC | <input type="checkbox"/> LIQUINOX                | <input type="checkbox"/> SILICON TUBING         | <input type="checkbox"/> S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> WL METER |           |                |  |
| <input type="checkbox"/> SUBMERSIBLE            | <input type="checkbox"/> DEIONIZED WATER         | <input type="checkbox"/> TEFLON TUBING          | <input type="checkbox"/> PVC PUMP MATERIAL      | <input type="checkbox"/> PID                 |           |                |  |
| <input type="checkbox"/> BLADDER                | <input type="checkbox"/> POTABLE WATER           | <input type="checkbox"/> TEFLON LINED TUBING    | <input type="checkbox"/> GEOPROBE SCREEN        | <input type="checkbox"/> WQ METER            |           |                |  |
| <input type="checkbox"/> WATERA                 | <input type="checkbox"/> NITRIC ACID             | <input checked="" type="checkbox"/> HDPE TUBING | <input type="checkbox"/> TEFLON BLADDER         | <input type="checkbox"/> TURB. METER         |           |                |  |
| <input type="checkbox"/> OTHER                  | <input type="checkbox"/> HEXANE                  | <input type="checkbox"/> LDPE TUBING            | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> PUMP                |           |                |  |
| <input type="checkbox"/> OTHER                  | <input type="checkbox"/> METHANOL                | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER               |           |                |  |
| <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER <b>PPAS F-100</b> | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> OTHER                  | <input type="checkbox"/> FILTERS             | NO. _____ | TYPE _____     |  |

## ANALYTICAL PARAMETERS

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |

## PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☒

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED **.3256**

If yes, purged approximately 1 standing volume prior to sampling or mL for this sample location.

## NOTES:

Sampler Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_  
 Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MW-45 | DATE<br>10/28/21 |
| START TIME<br>10:05  | END TIME<br>1602 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

|        | WELL INTEGRITY |    |     |
|--------|----------------|----|-----|
|        | YES            | NO | N/A |
| CAP    | <del>X</del>   | —  | —   |
| CASING | <del>X</del>   | —  | —   |
| LOCKED | <del>X</del>   | —  | —   |
| COLLAR | <del>X</del>   | —  | —   |

**FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE OAPP)**

EQUIPMENT DOCUMENTATION  
TYPE OF PUMP

### DECON FLUIDS USED

TUBING/PUMP/BLADDER MATERIALS

S. STEEL PUMP MATERIAL  
PVC PUMP MATERIAL  
GEOPROBE SCREEN  
TEFLON BLADDER  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

#### EQUIPMENT USED

EQUIPMENT USED

|  |                              |
|--|------------------------------|
|  | WL METER _____               |
|  | PID _____                    |
|  | WQ METER _____               |
|  | TURB. METER _____            |
|  | PUMP _____                   |
|  | OTHER _____                  |
|  | FILTERS NO. _____ TYPE _____ |

### ANALYTICAL PARAMETERS

### PURGE OBSERVATIONS

NUMBER OF GALLONS GENERATED 32

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

Sampler Signature: \_\_\_\_\_  
Checked By: \_\_\_\_\_

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MW-46 | DATE<br>10/28/21 |
| START TIME<br>10:30  | END TIME<br>1618 |
| SITE NAME/NUMBER     | PAGE<br>OF       |

|        | YES          | NO | N/A |
|--------|--------------|----|-----|
| CAP    | <del>X</del> | —  | —   |
| CASING | <del>X</del> | —  | —   |
| LOCKED | <del>X</del> | —  | —   |
| COLLAR | <del>X</del> | —  | —   |

|                                                                   |         |                                                                                |        |                               |     |                            |         |
|-------------------------------------------------------------------|---------|--------------------------------------------------------------------------------|--------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                                              | 3.70 FT | FINAL DTW<br>(BMP)                                                             | 8.1 FT | PROT. CASING<br>STICKUP (AGS) | FT  | TOC/TOR<br>DIFFERENCE      | FT      |
| WELL DEPTH<br>(BMP)                                               | 8.1 FT  | SCREEN<br>LENGTH                                                               | FT     | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                                                   | 4.40 FT | DRAWDOWN<br>VOLUME                                                             | 18 GAL | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL<br>(column X well diameter squared X 0.041) | 18 GAL  | (initial DTW - final DTW X well diam. squared X 0.041)<br>TOTAL VOL.<br>PURGED | 2 GAL  | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |
|                                                                   |         | (mL per minute X total minutes X 0.00026 gal/mL)                               |        |                               |     |                            |         |

[illegible]

**EQUIPMENT USED**

|             |                     |
|-------------|---------------------|
| WL METER    | _____               |
| PID         | _____               |
| WQ METER    | _____               |
| TURB. METER | _____               |
| PUMP        | _____               |
| OTHER       | _____               |
| FILTERS     | NO _____ TYPE _____ |

SAMPLE BOTTLE ID  
NUMBERS

|                                                                                                                                                                                                                                                                 |  | NUMBER | FILTERED | METHOD | REQUIRED | COLLECTED | COLLECTED | NUMBERS |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|----------|--------|----------|-----------|-----------|---------|
| <div style="border: 1px solid black; width: 15px; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px; margin-bottom: 2px;"></div> <div style="border: 1px solid black; width: 15px; height: 15px;"></div> |  |        |          |        |          |           |           |         |
|                                                                                                                                                                                                                                                                 |  |        |          |        |          |           |           |         |
|                                                                                                                                                                                                                                                                 |  |        |          |        |          |           |           |         |

NUMBER OF GALLONS GENERATED 3

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

NOTES: well went dry at 10:34  
Sample collected

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                  |          |
|------------------|----------|
| LOCATION ID      | DATE     |
| MW-47            | 10/29/21 |
| START TIME       | END TIME |
| 9:42             | 1107     |
| SITE NAME/NUMBER | PAGE     |
|                  | 1 OF 1   |

| WELL INTEGRITY |                                     |                          |                          |
|----------------|-------------------------------------|--------------------------|--------------------------|
|                | YES                                 | NO                       | N/A                      |
| CAP            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CASING         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LOCKED         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COLLAR         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

|                                          |          |                                                       |          |                                                  |     |                            |         |
|------------------------------------------|----------|-------------------------------------------------------|----------|--------------------------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                     | 6.35 FT  | FINAL DTW<br>(BMP)                                    | 12.23 FT | PROT. CASING<br>STICKUP (AGS)                    | FT  | TOCTOR<br>DIFFERENCE       | FT      |
| WELL DEPTH<br>(BMP)                      | 12.23 FT | SCREEN<br>LENGTH                                      | FT       | PID<br>AMBIENT AIR                               | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                          | 5.88 FT  | DRAWDOWN<br>VOLUME                                    | .24 GAL  | PID WELL<br>MOUTH                                | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL                    | .24 GAL  | (initial DTW- final DTW X well diam. squared X 0.041) |          | DRAWDOWN/<br>TOTAL PURGED                        |     | PRESSURE<br>TO PUMP        | N/A PSI |
| (column X well diameter squared X 0.041) |          | TOTAL VOL.<br>PURGED                                  | .26 GAL  | (mL per minute X total minutes X 0.00026 gal/mL) |     |                            |         |

| EQUIPMENT DOCUMENTATION             |             | TYPE OF PUMP             |                 | DECON FLUIDS USED                   |                     | TUBING/PUMP/BLADDER MATERIALS       |                        | EQUIPMENT USED                      |             |
|-------------------------------------|-------------|--------------------------|-----------------|-------------------------------------|---------------------|-------------------------------------|------------------------|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | PERISTALTIC | <input type="checkbox"/> | LIQUINOX        | <input type="checkbox"/>            | SILICON TUBING      | <input checked="" type="checkbox"/> | S. STEEL PUMP MATERIAL | <input checked="" type="checkbox"/> | WL METER    |
| <input type="checkbox"/>            | SUBMERSIBLE | <input type="checkbox"/> | DEIONIZED WATER | <input type="checkbox"/>            | TEFLON TUBING       | <input type="checkbox"/>            | PVC PUMP MATERIAL      | <input type="checkbox"/>            | PID         |
| <input type="checkbox"/>            | BLADDER     | <input type="checkbox"/> | POTABLE WATER   | <input type="checkbox"/>            | TEFLON LINED TUBING | <input type="checkbox"/>            | GEOPROBE SCREEN        | <input type="checkbox"/>            | WQ METER    |
| <input type="checkbox"/>            |             | <input type="checkbox"/> | NITRIC ACID     | <input checked="" type="checkbox"/> | HDPE TUBING         | <input type="checkbox"/>            | TEFLON BLADDER         | <input type="checkbox"/>            | TURB. METER |
| <input type="checkbox"/>            | WATTERA     | <input type="checkbox"/> | HEXANE          | <input type="checkbox"/>            | LDPE TUBING         | <input type="checkbox"/>            | OTHER                  | <input type="checkbox"/>            | PUMP        |
| <input type="checkbox"/>            | OTHER       | <input type="checkbox"/> | METHANOL        | <input type="checkbox"/>            | OTHER               | <input type="checkbox"/>            | OTHER                  | <input type="checkbox"/>            | OTHER       |
| <input type="checkbox"/>            | OTHER       | <input type="checkbox"/> | OTHER           | <input type="checkbox"/>            | OTHER               | <input type="checkbox"/>            | OTHER                  | <input type="checkbox"/>            | FILTERS     |
|                                     |             |                          | PEAS Free       |                                     |                     |                                     |                        |                                     | NO. TYPE    |

### PURGE OBSERVATIONS

|                 |                          |                                     |
|-----------------|--------------------------|-------------------------------------|
| PURGE WATER     | YES                      | NO                                  |
| CONTAINERIZED   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD | YES                      | NO                                  |
| UTILIZED        | <input type="checkbox"/> | <input type="checkbox"/>            |

NUMBER OF GALLONS GENERATED 26

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

NOTES: well went dry at 9:55  
samples collected

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>NW-48 | DATE<br>10/29/21 |
| START TIME<br>1120   | END TIME<br>1145 |
| SITE NAME/NUMBER     | PAGE<br>OF 1     |

|        | YES              | NO    | N/A   |
|--------|------------------|-------|-------|
| CAP    | <del>_____</del> | _____ | _____ |
| CASING | <del>_____</del> | _____ | _____ |
| LOCKED | <del>_____</del> | _____ | _____ |
| COLLAR | <del>_____</del> | _____ | _____ |

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE OAPP)

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MM-51 | DATE<br>10/28/21 |
| START TIME<br>1322   | END TIME<br>1350 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

| WELL INTEGRITY |          |           |           |
|----------------|----------|-----------|-----------|
|                | YES      | NO        | N/A       |
| CAP            | <u>X</u> | <u>  </u> | <u>  </u> |
| CASING         | <u>X</u> | <u>  </u> | <u>  </u> |
| LOCKED         | <u>X</u> | <u>  </u> | <u>  </u> |
| COLLAR         | <u>X</u> | <u>  </u> | <u>  </u> |

**FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE OAPP)**

TYPE OF PUMP

### DECON FLUIDS USED

### TUBING/PUMP/BLADDER MATERIALS

S. STEEL PUMP MATERIAL  
PVC PUMP MATERIAL  
GEOPROBE SCREEN  
TEFLON BLADDER  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_  
OTHER \_\_\_\_\_

### EQUIPMENT USED

| EQUIPMENT USER                      |             |          |
|-------------------------------------|-------------|----------|
| <input checked="" type="checkbox"/> | WL METER    |          |
| <input type="checkbox"/>            | PID         |          |
| <input type="checkbox"/>            | WQ METER    |          |
| <input checked="" type="checkbox"/> | TURB. METER |          |
| <input type="checkbox"/>            | PUMP        |          |
| <input type="checkbox"/>            | OTHER       |          |
|                                     | FILTERS     | NO. TYPE |

### ANALYTICAL PARAMETERS

## PURGE OBSERVATIONS

NUMBER OF GALLONS GENERATED 1.37

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

**NOTES:**

S: Stabilization accomplished, sample collected

Sampler Signature: \_\_\_\_\_  
Checked By: \_\_\_\_\_

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                  |          |
|------------------|----------|
| LOCATION ID      | DATE     |
| MW-53            | 10/28/21 |
| START TIME       | END TIME |
| 16:10            | 16:45    |
| SITE NAME/NUMBER | PAGE     |
|                  | OF       |

| WELL INTEGRITY |    |     |  |
|----------------|----|-----|--|
| YES            | NO | N/A |  |

|        | YES          | NO | NOT |
|--------|--------------|----|-----|
| CAP    | <del>X</del> | —  | —   |
| CASING | <del>X</del> | —  | —   |
| LOCKED | <del>X</del> | —  | —   |
| COLLAR | <del>X</del> | —  | —   |

|                                                                   |          |                                                                               |          |                               |     |                            |         |
|-------------------------------------------------------------------|----------|-------------------------------------------------------------------------------|----------|-------------------------------|-----|----------------------------|---------|
| INITIAL DTW<br>(BMP)                                              | 3.39 FT  | FINAL DTW<br>(BMP)                                                            | 3.42 FT  | PROT. CASING<br>STICKUP (AGS) | FT  | TOC/TOR<br>DIFFERENCE      | FT      |
| WELL DEPTH<br>(BMP)                                               | 12.00 FT | SCREEN<br>LENGTH                                                              | FT       | PID<br>AMBIENT AIR            | PPM | REFILL TIMER<br>SETTING    | N/A SEC |
| WATER<br>COLUMN                                                   | 8.61 FT  | DRAWDOWN<br>VOLUME                                                            | 0 GAL    | PID WELL<br>MOUTH             | PPM | DISCHARGE<br>TIMER SETTING | N/A SEC |
| CALCULATED<br>GAL/VOL<br>(column X well diameter squared X 0.041) | 3.35 GAL | (Initial DTW- final DTW X well diam. squared X 0.041)<br>TOTAL VOL.<br>PURGED | 4.62 GAL | DRAWDOWN/<br>TOTAL PURGED     |     | PRESSURE<br>TO PUMP        | N/A PSI |
|                                                                   |          | (mL per minute X total minutes X 0.00026 gal/mL)                              |          |                               |     |                            |         |

[illegible]

| EQUIPMENT DOCUMENTATION             |             |  | EQUIPMENT USED                      |                        |                                     |                              |
|-------------------------------------|-------------|--|-------------------------------------|------------------------|-------------------------------------|------------------------------|
| TYPE OF PUMP                        |             |  | TUBING/PUMP/BLADDER MATERIALS       |                        |                                     |                              |
| <input checked="" type="checkbox"/> | PERISTALTIC |  | <input type="checkbox"/>            | LIQUINOX               | <input checked="" type="checkbox"/> | WL METER _____               |
| <input type="checkbox"/>            | SUBMERSIBLE |  | <input type="checkbox"/>            | POTONIZED WATER        | <input type="checkbox"/>            | PID _____                    |
| <input type="checkbox"/>            | BLADDER     |  | <input type="checkbox"/>            | POTABLE WATER          | <input type="checkbox"/>            | WQ METER _____               |
| <input type="checkbox"/>            |             |  | <input checked="" type="checkbox"/> | NITRIC ACID            | <input type="checkbox"/>            | TURB. METER _____            |
| <input type="checkbox"/>            | WATTERA     |  | <input type="checkbox"/>            | HEXANE                 | <input type="checkbox"/>            | PUMP _____                   |
| <input type="checkbox"/>            | OTHER _____ |  | <input type="checkbox"/>            | METHANOL               | <input type="checkbox"/>            | OTHER _____                  |
| <input type="checkbox"/>            | OTHER _____ |  | <input type="checkbox"/>            | OTHER <i>PCAS Free</i> | <input type="checkbox"/>            | FILTERS NO. _____ TYPE _____ |

[illegible]

| PURGE OBSERVATIONS |                          |                                     |                                                                                                  |      |
|--------------------|--------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------|------|
| PURGE WATER        | YES                      | NO                                  | NUMBER OF GALLONS                                                                                | 4.62 |
| CONTAINERIZED      | <input type="checkbox"/> | <input checked="" type="checkbox"/> | GENERATED                                                                                        |      |
| NO-PURGE METHOD    | YES                      | NO                                  | If yes, purged approximately 1 standing volume prior to sampling or mL for this sample location. |      |
| UTILIZED           | <input type="checkbox"/> | <input type="checkbox"/>            |                                                                                                  |      |

NOTES:  
Stability achieved, samples collected

Sampler Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_  
Checked By: \_\_\_\_\_ Date: \_\_\_\_\_



|                      |                   |
|----------------------|-------------------|
| LOCATION ID<br>Mw-55 | DATE<br>10/29/21  |
| START TIME<br>10:55  | END TIME<br>11:32 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1    |

| WELL INTEGRITY |              |    |     |
|----------------|--------------|----|-----|
|                | YES          | NO | N/A |
| G              | <del>X</del> | —  | —   |
| ED             | <del>X</del> | —  | —   |
| R              | <del>X</del> | —  | —   |

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE OAPP)

TYPE OF PUMP

### DECON FLUIDS USED

### TUBING/PUMP/BLADDER MATERIALS

### EQUIPMENT USED

### ANALYTICAL PARAMETERS

### PURGE OBSERVATIONS

Sampler Signature:  
Checked By:

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_



|                      |                  |
|----------------------|------------------|
| LOCATION ID<br>MW-57 | DATE<br>10/23/21 |
| START TIME<br>17:48  | END TIME<br>9:23 |
| SITE NAME/NUMBER     | PAGE<br>1 OF 1   |

|        |                  |       |       |
|--------|------------------|-------|-------|
| CAP    | <del>_____</del> | _____ | _____ |
| CASING | <del>_____</del> | _____ | _____ |
| LOCKED | <del>_____</del> | _____ | _____ |
| COLLAR | <del>_____</del> | _____ | _____ |

[illegible]

| ANALYTICAL PARAMETERS |               |                |                     |                 |                  |              |                          |
|-----------------------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
| PARAMETER             | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |
|                       |               |                |                     |                 |                  |              |                          |

|                    |                          |                                     |                                                                                                  |                                                             |  |
|--------------------|--------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| PURGE OBSERVATIONS |                          |                                     | NOTES:                                                                                           |                                                             |  |
| PURGE WATER        | YES                      | NO                                  | NUMBER OF GALLONS                                                                                | 06<br>Peg at 2:50, insufficient water for sample parameters |  |
| CONTAINERIZED      | <input type="checkbox"/> | <input checked="" type="checkbox"/> | GENERATED                                                                                        |                                                             |  |
| NO-PURGE METHOD    | YES                      | NO                                  | If yes, purged approximately 1 standing volume prior to sampling or mL for this sample location. |                                                             |  |
| UTILIZED           | <input type="checkbox"/> | <input type="checkbox"/>            |                                                                                                  |                                                             |  |
|                    |                          |                                     | Sampler Signature:                                                                               | Print Name:                                                 |  |
|                    |                          |                                     | Checked By:                                                                                      | Date:                                                       |  |





|                      |                   |
|----------------------|-------------------|
| LOCATION ID<br>MW-60 | DATE<br>10/27/21  |
| START TIME<br>15:05  | END TIME<br>15:50 |
| SITE NAME/NUMBER     | PAGE<br>OF        |

| WELL INTEGRITY |    |     |  |
|----------------|----|-----|--|
| YES            | NO | N/A |  |

|        | YES | NO | N/A |
|--------|-----|----|-----|
| CAP    |     |    |     |
| CASING |     |    |     |
| LOCKED |     |    |     |
| COLLAR |     |    |     |

|                                                             |          |                                                                       |          |                            |     |                         |         |
|-------------------------------------------------------------|----------|-----------------------------------------------------------------------|----------|----------------------------|-----|-------------------------|---------|
| INITIAL DTW (BMP)                                           | 2.45 FT  | FINAL DTW (BMP)                                                       | 3.05 FT  | PROT. CASING STICKUP (AGS) | FT  | TOC/TOR DIFFERENCE      | FT      |
| WELL DEPTH (BMP)                                            | 5.35 FT  | SCREEN LENGTH                                                         | FT       | PID AMBIENT AIR            | PPM | REFILL TIMER SETTING    | N/A SEC |
| WATER COLUMN                                                | 2.9 FT   | DRAWDOWN VOLUME (initial DTW- final DTW X well diam. squared X 0.041) | 0.02 GAL | PID WELL MOUTH             | PPM | DISCHARGE TIMER SETTING | N/A SEC |
| CALCULATED GAL/VOL (column X well diameter squared X 0.041) | 0.12 GAL | TOTAL VOL. PURGED                                                     | 2.37 GAL | DRAWDOWN/ TOTAL PURGED     |     | PRESSURE TO PUMP        | N/A PSI |

[illegible]

| TYPE OF PUMP                        |             |
|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | PERISTALTIC |
| <input type="checkbox"/>            | SUBMERSIBLE |
| <input type="checkbox"/>            | BLADDER     |
| <input type="checkbox"/>            | WATTERA     |
| <input type="checkbox"/>            | OTHER       |
| <input type="checkbox"/>            | OTHER       |

LIQUINOX  
DEIONIZED WATER  
POTABLE WATER  
NITRIC ACID  
HEXANE  
METHANOL  
OTHER PFAS Free

|                     |  |                        |
|---------------------|--|------------------------|
| SILICON TUBING      |  | S. STEEL PUMP MATERIAL |
| TEFLON TUBING       |  | PVC PUMP MATERIAL      |
| TEFLON LINED TUBING |  | GEOPROBE SCREEN        |
| HDPE TUBING         |  | TEFLON BLADDER         |
| LDPE TUBING         |  | OTHER                  |
| OTHER               |  | OTHER                  |
| OTHER               |  | OTHER                  |

WL METER \_\_\_\_\_  
 PID \_\_\_\_\_  
 WQ METER \_\_\_\_\_  
 TURB. METER \_\_\_\_\_  
 PUMP \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 FILTERS NO. \_\_\_\_\_ TYPE \_\_\_\_\_

| PARAMETER | METHOD NUMBER | FIELD FILTERED | PRESERVATION METHOD | VOLUME REQUIRED | SAMPLE COLLECTED | QC COLLECTED | SAMPLE BOTTLE ID NUMBERS |
|-----------|---------------|----------------|---------------------|-----------------|------------------|--------------|--------------------------|
|           |               |                |                     |                 |                  |              |                          |
|           |               |                |                     |                 |                  |              |                          |

|                 |                          |                                     |
|-----------------|--------------------------|-------------------------------------|
| PURGE WATER     | YES                      | NO                                  |
| CONTAINERIZED   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| NO-PURGE METHOD | YES                      | NO                                  |
| UTILIZED        | <input type="checkbox"/> | <input type="checkbox"/>            |

NUMBER OF GALLONS GENERATED 2.37

If yes, purged approximately 1 standing volume prior to sampling or \_\_\_\_\_ mL for this sample location.

NOTES: Stabilization achieved, sample taken

Sampler Signature: \_\_\_\_\_  
Checked By: \_\_\_\_\_

Print Name: \_\_\_\_\_  
Date: \_\_\_\_\_

## **Appendix D - Groundwater Laboratory Reports**

The results set forth herein are provided by SGS North America Inc.

**e-Hardcopy 2.0**  
Automated Report

## Technical Report for

TK&K Services

DFSP; 5449 W Main St, Verona, NY

SGS Job Number: FA90390

Sampling Dates: 10/27/21 - 10/29/21

Report to:

TK&K Services  
719 Hale St  
Beverly, MA 01915  
eric.blomberg@tkandk.com; cam.po@tkandk.com;  
brian.emery@tkandk.com  
ATTN: Eric Blomberg

Total number of pages in report: 65



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Norm Farmer  
Technical Director

Client Service contact: Andrea Colby 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AL, AK, AR, CT, IA, KY, MA, MI, MS, ND, NH, NV, OK, OR, UT, VT, WA, WV  
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Test results relate only to samples analyzed.

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Sample Summary

TK&K Services

Job No: FA90390

DFSP; 5449 W Main St, Verona, NY

| Sample Number | Collected Date | Time By | Received     | Matrix Code | Type         | Client Sample ID |
|---------------|----------------|---------|--------------|-------------|--------------|------------------|
| FA90390-1     | 10/28/21       | 15:12   | GEDM11/02/21 | AQ          | Ground Water | MW-2R            |
| FA90390-2     | 10/27/21       | 15:49   | GEDM11/02/21 | AQ          | Ground Water | MW-5             |
| FA90390-3     | 10/28/21       | 10:35   | GEDM11/02/21 | AQ          | Ground Water | MW-13            |
| FA90390-4     | 10/28/21       | 11:59   | GEDM11/02/21 | AQ          | Ground Water | MW-29            |
| FA90390-5     | 10/28/21       | 11:59   | GEDM11/02/21 | AQ          | Ground Water | MW-30            |
| FA90390-6     | 10/28/21       | 14:30   | GEDM11/02/21 | AQ          | Ground Water | MW-32            |
| FA90390-7     | 10/28/21       | 14:30   | GEDM11/02/21 | AQ          | Ground Water | MW-32 DUP        |
| FA90390-8     | 10/29/21       | 12:34   | GEDM11/02/21 | AQ          | Ground Water | MW-33R           |
| FA90390-9     | 10/28/21       | 12:00   | GEDM11/02/21 | AQ          | Ground Water | MW-35            |
| FA90390-10    | 10/28/21       | 13:10   | GEDM11/02/21 | AQ          | Ground Water | MW-36            |
| FA90390-11    | 10/29/21       | 13:05   | GEDM11/02/21 | AQ          | Ground Water | MW-38            |
| FA90390-12    | 10/29/21       | 10:55   | GEDM11/02/21 | AQ          | Ground Water | MW-39            |
| FA90390-13    | 10/29/21       | 12:40   | GEDM11/02/21 | AQ          | Ground Water | MW-40            |



Sample Summary  
(continued)

TK&K Services

Job No: FA90390

DFSP; 5449 W Main St, Verona, NY

| Sample Number | Collected Date | Time By | Received     | Matrix Code | Type         | Client Sample ID |
|---------------|----------------|---------|--------------|-------------|--------------|------------------|
| FA90390-14    | 10/29/21       | 10:47   | GEDM11/02/21 | AQ          | Ground Water | MW-41            |
| FA90390-15    | 10/29/21       | 10:47   | GEDM11/02/21 | AQ          | Ground Water | MW-41 DUP        |
| FA90390-16    | 10/29/21       | 09:47   | GEDM11/02/21 | AQ          | Ground Water | MW-42            |
| FA90390-17    | 10/27/21       | 16:39   | GEDM11/02/21 | AQ          | Ground Water | MW-43            |
| FA90390-18    | 10/27/21       | 14:19   | GEDM11/02/21 | AQ          | Ground Water | MW-44            |
| FA90390-19    | 10/28/21       | 16:03   | GEDM11/02/21 | AQ          | Ground Water | MW-45            |
| FA90390-20    | 10/28/21       | 16:18   | GEDM11/02/21 | AQ          | Ground Water | MW-46            |
| FA90390-21    | 10/29/21       | 11:07   | GEDM11/02/21 | AQ          | Ground Water | MW-47            |
| FA90390-22    | 10/29/21       | 11:45   | GEDM11/02/21 | AQ          | Ground Water | MW-48            |
| FA90390-23    | 10/29/21       | 13:40   | GEDM11/02/21 | AQ          | Ground Water | MW-24            |
| FA90390-24    | 10/28/21       | 13:50   | GEDM11/02/21 | AQ          | Ground Water | MW-51            |
| FA90390-25    | 10/28/21       | 16:45   | GEDM11/02/21 | AQ          | Ground Water | MW-53            |
| FA90390-26    | 10/29/21       | 11:38   | GEDM11/02/21 | AQ          | Ground Water | MW-55            |



Sample Summary  
(continued)

TK&K Services

Job No: FA90390

DFSP; 5449 W Main St, Verona, NY

| Sample Number | Collected Date | Time By | Received     | Matrix Code | Type            | Client Sample ID |
|---------------|----------------|---------|--------------|-------------|-----------------|------------------|
| FA90390-27    | 10/28/21       | 09:45   | GEDM11/02/21 | AQ          | Ground Water    | MW-56            |
| FA90390-28    | 10/27/21       | 14:20   | GEDM11/02/21 | AQ          | Ground Water    | MW-59            |
| FA90390-29    | 10/27/21       | 15:50   | GEDM11/02/21 | AQ          | Ground Water    | MW-60            |
| FA90390-30    | 10/29/21       | 10:05   | GEDM11/02/21 | AQ          | Equipment Blank | EQUIPMENT BLANK  |

## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** TK&K Services

**Job No:** FA90390

**Site:** DFSP; 5449 W Main St, Verona, NY

**Report Date:** 11/29/2021 2:02:34

On 11/02/2021, 30 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of FA90390 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

### MS Semi-volatiles By Method EPA 537M QSM5.3 B-15

**Matrix:** AQ

**Batch ID:** OP88296

Sample(s) FA90390-10MS, FA90390-14DUP, FA90390-10MS were used as the QC samples indicated.

Matrix Spike Recovery(s) for Perfluorobutanesulfonic acid, Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix Spike Recovery(s) for Perfluorohexanesulfonic acid, Perfluorooctanesulfonic acid are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Sample(s) FA90390-20 have surrogates outside control limits.

FA90390-20 for 13C4-PFHpA: Outside control limits.

FA90390-20 for 13C8-PFOS: Outside control limits.

FA90390-20 for 13C9-PFNA: Outside control limits.

**Matrix:** AQ

**Batch ID:** OP88477

Sample(s) FA90580-3MS, FA90580-3MSD were used as the QC samples indicated.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

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Kim Benham, Client Services (*Signature on File*)

## Summary of Hits

Page 1 of 6

**Job Number:** FA90390**Account:** TK&K Services**Project:** DFSP; 5449 W Main St, Verona, NY**Collected:** 10/27/21 thru 10/29/21

| Lab Sample ID<br>Analyte     | Client Sample ID | Result/<br>Qual | LOQ    | LOD    | Units | Method               |
|------------------------------|------------------|-----------------|--------|--------|-------|----------------------|
| <b>FA90390-1 MW-2R</b>       |                  |                 |        |        |       |                      |
| Perfluoroheptanoic acid      |                  | 0.128           | 0.0038 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |                  | 0.0537          | 0.0038 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |                  | 0.0055          | 0.0038 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |                  | 0.0321          | 0.0038 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |                  | 0.0819          | 0.0038 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |                  | 0.162           | 0.0038 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| <b>FA90390-2 MW-5</b>        |                  |                 |        |        |       |                      |
| Perfluoroheptanoic acid      |                  | 0.126           | 0.0036 | 0.0018 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |                  | 0.0633          | 0.0036 | 0.0018 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |                  | 0.0062          | 0.0036 | 0.0018 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |                  | 0.0010 J        | 0.0036 | 0.0018 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |                  | 0.0077          | 0.0036 | 0.0018 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |                  | 0.0078          | 0.0036 | 0.0018 | ug/l  | EPA 537M QSM5.3 B-15 |
| <b>FA90390-3 MW-13</b>       |                  |                 |        |        |       |                      |
| Perfluoroheptanoic acid      |                  | 0.0063          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |                  | 0.0078          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |                  | 0.0065          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |                  | 0.0554          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |                  | 0.150           | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| <b>FA90390-4 MW-29</b>       |                  |                 |        |        |       |                      |
| Perfluoroheptanoic acid      |                  | 0.0018 J        | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |                  | 0.0011 J        | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |                  | 0.0023 J        | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |                  | 0.0042          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |                  | 0.0048          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| <b>FA90390-5 MW-30</b>       |                  |                 |        |        |       |                      |
| Perfluoroheptanoic acid      |                  | 0.0816          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |                  | 0.0538          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |                  | 0.0050          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |                  | 0.0203          | 0.0037 | 0.0019 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |                  | 0.433           | 0.0074 | 0.0037 | ug/l  | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |                  | 0.621           | 0.0074 | 0.0037 | ug/l  | EPA 537M QSM5.3 B-15 |

## Summary of Hits

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**Job Number:** FA90390  
**Account:** TK&K Services  
**Project:** DFSP; 5449 W Main St, Verona, NY  
**Collected:** 10/27/21 thru 10/29/21

| Lab Sample ID | Client Sample ID | Result/<br>Qual | LOQ | LOD | Units | Method |
|---------------|------------------|-----------------|-----|-----|-------|--------|
|---------------|------------------|-----------------|-----|-----|-------|--------|

### FA90390-6 MW-32

|                              |        |        |        |      |                      |
|------------------------------|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.119  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0424 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       | 0.0092 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0133 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.298  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.361  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-7 MW-32 DUP

|                              |        |        |        |      |                      |
|------------------------------|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.191  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0654 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       | 0.0149 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0155 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.323  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.449  | 0.019  | 0.0093 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-8 MW-33R

|                              |        |        |        |      |                      |
|------------------------------|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.121  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0591 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       | 0.0091 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0265 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.156  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 1.01   | 0.019  | 0.0093 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-9 MW-35

No hits reported in this sample.

### FA90390-10 MW-36

|                              |        |        |        |      |                      |
|------------------------------|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.0239 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0482 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.121  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.332  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 3.08   | 0.074  | 0.037  | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-11 MW-38

|                              |        |        |        |      |                      |
|------------------------------|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.0323 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0092 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.143  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.112  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

## Summary of Hits

**Job Number:** FA90390  
**Account:** TK&K Services  
**Project:** DFSP; 5449 W Main St, Verona, NY  
**Collected:** 10/27/21 thru 10/29/21

| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | LOQ | LOD | Units | Method |
|--------------------------|------------------|-----------------|-----|-----|-------|--------|
|--------------------------|------------------|-----------------|-----|-----|-------|--------|

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluorooctanesulfonic acid |  | 0.0409 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
|------------------------------|--|--------|--------|--------|------|----------------------|

### FA90390-12 MW-39

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.177  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.0819 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0085 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.0707 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 1.43   | 0.019  | 0.0093 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 1.31   | 0.019  | 0.0093 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-13 MW-40

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.507  | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.251  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0345 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.0918 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 1.86   | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 3.09   | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-14 MW-41

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.201  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.135  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0215 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.0603 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 1.29   | 0.15   | 0.074  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 4.11   | 0.15   | 0.074  | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-15 MW-41 DUP

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.193  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.129  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0210 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.0581 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 1.35   | 0.074  | 0.037  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 3.97   | 0.074  | 0.037  | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-16 MW-42

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.135  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.120  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0054 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.280  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 1.64   | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |

## Summary of Hits

**Job Number:** FA90390  
**Account:** TK&K Services  
**Project:** DFSP; 5449 W Main St, Verona, NY  
**Collected:** 10/27/21 thru 10/29/21

| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | LOQ | LOD | Units | Method |
|--------------------------|------------------|-----------------|-----|-----|-------|--------|
|--------------------------|------------------|-----------------|-----|-----|-------|--------|

|                              |  |      |       |       |      |                      |
|------------------------------|--|------|-------|-------|------|----------------------|
| Perfluorooctanesulfonic acid |  | 2.08 | 0.037 | 0.019 | ug/l | EPA 537M QSM5.3 B-15 |
|------------------------------|--|------|-------|-------|------|----------------------|

### FA90390-17 MW-43

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.506  | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.362  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0246 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.224  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 1.98   | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 2.83   | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-18 MW-44

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.142  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.102  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0160 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.103  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 1.30   | 0.074  | 0.037  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 4.00   | 0.074  | 0.037  | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-19 MW-45

|                              |  |          |        |        |      |                      |
|------------------------------|--|----------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.0543   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.0282   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0016 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.0658   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 0.442    | 0.019  | 0.0093 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 0.346    | 0.019  | 0.0093 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-20 MW-46

|                              |  |         |        |        |      |                      |
|------------------------------|--|---------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.234 J | 0.30   | 0.15   | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.236   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.126   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 6.54    | 0.30   | 0.15   | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 14.9    | 0.30   | 0.15   | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-21 MW-47

|                              |  |        |        |        |      |                      |
|------------------------------|--|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      |  | 0.141  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       |  | 0.0630 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       |  | 0.0041 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid |  | 0.0334 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid |  | 0.401  | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid |  | 0.637  | 0.037  | 0.019  | ug/l | EPA 537M QSM5.3 B-15 |

## Summary of Hits

**Job Number:** FA90390  
**Account:** TK&K Services  
**Project:** DFSP; 5449 W Main St, Verona, NY  
**Collected:** 10/27/21 thru 10/29/21

| Lab Sample ID | Client Sample ID | Result/<br>Qual | LOQ | LOD | Units | Method |
|---------------|------------------|-----------------|-----|-----|-------|--------|
|---------------|------------------|-----------------|-----|-----|-------|--------|

### FA90390-22 MW-48

|                              |          |        |        |      |                      |
|------------------------------|----------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.115    | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0396   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0642   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.293    | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.0027 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-23 MW-24

|                              |          |        |        |      |                      |
|------------------------------|----------|--------|--------|------|----------------------|
| Perfluorobutanesulfonic acid | 0.0025 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.0059   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.0076   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-24 MW-51

|                              |        |        |        |      |                      |
|------------------------------|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.153  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.146  | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorononanoic acid       | 0.0209 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0483 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 1.29   | 0.15   | 0.074  | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 3.28   | 0.15   | 0.074  | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-25 MW-53

|                              |          |        |        |      |                      |
|------------------------------|----------|--------|--------|------|----------------------|
| Perfluorohexanesulfonic acid | 0.0023 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.0032 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-26 MW-55

|                              |        |        |        |      |                      |
|------------------------------|--------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.0196 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0051 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0192 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.0548 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.0098 | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-27 MW-56

|                              |          |        |        |      |                      |
|------------------------------|----------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.0080   | 0.0038 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0037 J | 0.0038 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0029 J | 0.0038 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.0078   | 0.0038 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.0134   | 0.0038 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

## Summary of Hits

Page 6 of 6

**Job Number:** FA90390  
**Account:** TK&K Services  
**Project:** DFSP; 5449 W Main St, Verona, NY  
**Collected:** 10/27/21 thru 10/29/21

| Lab Sample ID | Client Sample ID | Result/<br>Analyte | LOQ | LOD | Units | Method |
|---------------|------------------|--------------------|-----|-----|-------|--------|
|---------------|------------------|--------------------|-----|-----|-------|--------|

### FA90390-28 MW-59

|                              |          |        |        |      |                      |
|------------------------------|----------|--------|--------|------|----------------------|
| Perfluoroheptanoic acid      | 0.0032 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanoic acid       | 0.0015 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0056   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.0139   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.0018 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-29 MW-60

|                              |          |        |        |      |                      |
|------------------------------|----------|--------|--------|------|----------------------|
| Perfluorooctanoic acid       | 0.0011 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorobutanesulfonic acid | 0.0012 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorohexanesulfonic acid | 0.0043   | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |
| Perfluorooctanesulfonic acid | 0.0020 J | 0.0037 | 0.0019 | ug/l | EPA 537M QSM5.3 B-15 |

### FA90390-30 EQUIPMENT BLANK

No hits reported in this sample.



Orlando, FL

## Section 4

4

### Sample Results

### Report of Analysis

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-2R                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-1                        | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80245.D | 1  | 11/18/21 15:31 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 260 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.128  | 0.0038 | 0.0019 | 0.00096 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0537 | 0.0038 | 0.0019 | 0.00096 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0055 | 0.0038 | 0.0019 | 0.00096 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |  |
|-----------|------------------------------|--------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0321 | 0.0038 | 0.0019 | 0.00096 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0819 | 0.0038 | 0.0019 | 0.00096 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.162  | 0.0038 | 0.0019 | 0.00096 | ug/l |  |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |     |  |  |         |
|--|------------|-----|--|--|---------|
|  | 13C4-PFHpA | 89% |  |  | 50-150% |
|  | 13C8-PFOA  | 94% |  |  | 50-150% |
|  | 13C9-PFNA  | 93% |  |  | 50-150% |
|  | 13C3-PFBS  | 90% |  |  | 50-150% |
|  | 13C3-PFHxS | 87% |  |  | 50-150% |
|  | 13C8-PFOS  | 86% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-5                             | <b>Date Sampled:</b>   | 10/27/21 |
| <b>Lab Sample ID:</b>    | FA90390-2                        | <b>Date Received:</b>  | 11/02/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD |                        |          |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80246.D | 1  | 11/18/21 15:49 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 280 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.126  | 0.0036 | 0.0018 | 0.00089 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0633 | 0.0036 | 0.0018 | 0.00089 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0062 | 0.0036 | 0.0018 | 0.00089 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |   |
|-----------|------------------------------|--------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0010 | 0.0036 | 0.0018 | 0.00089 | ug/l | J |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0077 | 0.0036 | 0.0018 | 0.00089 | ug/l |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0078 | 0.0036 | 0.0018 | 0.00089 | ug/l |   |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |  |         |
|------------|-----|--|---------|
| 13C4-PFHpA | 80% |  | 50-150% |
| 13C8-PFOA  | 85% |  | 50-150% |
| 13C9-PFNA  | 85% |  | 50-150% |
| 13C3-PFBS  | 79% |  | 50-150% |
| 13C3-PFHxS | 79% |  | 50-150% |
| 13C8-PFOS  | 80% |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-13                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-3                        | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80247.D | 1  | 11/18/21 16:07 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0063   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0078   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |  |
|-----------|------------------------------|--------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0065 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0554 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.150  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |  |         |
|------------|-----|--|---------|
| 13C4-PFHpA | 75% |  | 50-150% |
| 13C8-PFOA  | 78% |  | 50-150% |
| 13C9-PFNA  | 75% |  | 50-150% |
| 13C3-PFBS  | 74% |  | 50-150% |
| 13C3-PFHxS | 71% |  | 50-150% |
| 13C8-PFOS  | 64% |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-29                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-4                        | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80248.D | 1  | 11/18/21 16:25 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |   |
|----------|-------------------------|----------|--------|--------|---------|------|---|
| 375-85-9 | Perfluoroheptanoic acid | 0.0018   | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 335-67-1 | Perfluorooctanoic acid  | 0.0011   | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |   |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |   |
|-----------|------------------------------|--------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0023 | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0042 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0048 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |     |  |  |         |
|--|------------|-----|--|--|---------|
|  | 13C4-PFHpA | 90% |  |  | 50-150% |
|  | 13C8-PFOA  | 93% |  |  | 50-150% |
|  | 13C9-PFNA  | 93% |  |  | 50-150% |
|  | 13C3-PFBS  | 87% |  |  | 50-150% |
|  | 13C3-PFHxS | 88% |  |  | 50-150% |
|  | 13C8-PFOS  | 86% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

Page 1 of 1

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-30                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-5                        | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80249.D | 1  | 11/18/21 16:43 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80294.D | 2  | 11/19/21 12:41 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

### PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0816 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0538 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0050 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

### PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                    |        |        |         |      |  |
|-----------|------------------------------|--------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0203             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.433 <sup>a</sup> | 0.0074 | 0.0037 | 0.0019  | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.621 <sup>a</sup> | 0.0074 | 0.0037 | 0.0019  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |     |         |
|------------|-----|-----|---------|
| 13C4-PFHpA | 89% | 90% | 50-150% |
| 13C8-PFOA  | 93% | 97% | 50-150% |
| 13C9-PFNA  | 93% | 97% | 50-150% |
| 13C3-PFBS  | 88% | 93% | 50-150% |
| 13C3-PFHxS | 86% | 91% | 50-150% |
| 13C8-PFOS  | 77% | 83% | 50-150% |

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-32                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-6                        | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80392.D | 1  | 11/22/21 13:38 | FS | 11/11/21 08:00 | OP88296    | S2Q1136          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

### PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.119  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0424 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0092 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

### PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |  |
|-----------|------------------------------|--------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0133 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.298  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.361  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |  |         |
|------------|-----|--|---------|
| 13C4-PFHpA | 80% |  | 50-150% |
| 13C8-PFOA  | 85% |  | 50-150% |
| 13C9-PFNA  | 85% |  | 50-150% |
| 13C3-PFBS  | 75% |  | 50-150% |
| 13C3-PFHxS | 79% |  | 50-150% |
| 13C8-PFOS  | 83% |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-32 DUP                        | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Lab Sample ID:</b>    | FA90390-7                        | <b>Date Received:</b>  | 11/02/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD |                        |          |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80251.D | 1  | 11/18/21 17:20 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80295.D | 5  | 11/19/21 12:59 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.191  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0654 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0149 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                    |        |        |         |      |  |
|-----------|------------------------------|--------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0155             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.323              | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.449 <sup>a</sup> | 0.019  | 0.0093 | 0.0046  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 81% | 92%  | 50-150% |
| 13C8-PFOA  | 86% | 100% | 50-150% |
| 13C9-PFNA  | 82% | 102% | 50-150% |
| 13C3-PFBS  | 81% | 91%  | 50-150% |
| 13C3-PFHxS | 81% | 101% | 50-150% |
| 13C8-PFOS  | 71% | 102% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-33R                           |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-8                        | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80252.D | 1  | 11/18/21 17:38 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80296.D | 5  | 11/19/21 13:17 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.121  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0591 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0091 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0265            | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.156             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 1.01 <sup>a</sup> | 0.019  | 0.0093 | 0.0046  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 72% | 95%  | 50-150% |
| 13C8-PFOA  | 77% | 106% | 50-150% |
| 13C9-PFNA  | 82% | 112% | 50-150% |
| 13C3-PFBS  | 69% | 97%  | 50-150% |
| 13C3-PFHxS | 78% | 104% | 50-150% |
| 13C8-PFOS  | 75% | 102% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-35                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-9                        | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80255.D | 1  | 11/18/21 18:32 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

### PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

### PERFLUOROALKYLSULFONIC ACIDS

|           |                              |          |        |        |         |      |  |
|-----------|------------------------------|----------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |  |         |
|------------|-----|--|---------|
| 13C4-PFHpA | 76% |  | 50-150% |
| 13C8-PFOA  | 80% |  | 50-150% |
| 13C9-PFNA  | 80% |  | 50-150% |
| 13C3-PFBS  | 73% |  | 50-150% |
| 13C3-PFHxS | 75% |  | 50-150% |
| 13C8-PFOS  | 76% |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-36                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-10                       | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80256.D | 1  | 11/18/21 18:50 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80297.D | 20 | 11/19/21 13:35 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

### PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0239   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0482   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

### PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.121             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.332             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 3.08 <sup>a</sup> | 0.074  | 0.037  | 0.019   | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 78% | 129% | 50-150% |
| 13C8-PFOA  | 84% | 148% | 50-150% |
| 13C9-PFNA  | 76% | 147% | 50-150% |
| 13C3-PFBS  | 76% | 137% | 50-150% |
| 13C3-PFHxS | 78% | 136% | 50-150% |
| 13C8-PFOS  | 67% | 140% | 50-150% |

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-38                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-11                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80299.D | 1  | 11/19/21 14:11 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0323   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0092   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |  |
|-----------|------------------------------|--------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.143  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.112  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0409 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |     |  |  |         |
|--|------------|-----|--|--|---------|
|  | 13C4-PFHpA | 87% |  |  | 50-150% |
|  | 13C8-PFOA  | 93% |  |  | 50-150% |
|  | 13C9-PFNA  | 92% |  |  | 50-150% |
|  | 13C3-PFBS  | 88% |  |  | 50-150% |
|  | 13C3-PFHxS | 86% |  |  | 50-150% |
|  | 13C8-PFOS  | 88% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-39                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-12                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80259.D | 1  | 11/18/21 19:44 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80300.D | 5  | 11/19/21 14:29 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.177  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0819 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0085 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0707            | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.43 <sup>a</sup> | 0.019  | 0.0093 | 0.0046  | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 1.31 <sup>a</sup> | 0.019  | 0.0093 | 0.0046  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 75% | 99%  | 50-150% |
| 13C8-PFOA  | 84% | 105% | 50-150% |
| 13C9-PFNA  | 83% | 105% | 50-150% |
| 13C3-PFBS  | 77% | 97%  | 50-150% |
| 13C3-PFHxS | 73% | 104% | 50-150% |
| 13C8-PFOS  | 76% | 102% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-40                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-13                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80260.D | 1  | 11/18/21 20:02 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80301.D | 10 | 11/19/21 14:47 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |                    |        |        |         |      |  |
|----------|-------------------------|--------------------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.507 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.251              | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0345             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0918            | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.86 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 3.09 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 80% | 126% | 50-150% |
| 13C8-PFOA  | 86% | 137% | 50-150% |
| 13C9-PFNA  | 86% | 139% | 50-150% |
| 13C3-PFBS  | 85% | 129% | 50-150% |
| 13C3-PFHxS | 76% | 128% | 50-150% |
| 13C8-PFOS  | 76% | 137% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

# Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-41                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-14                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80261.D | 1  | 11/18/21 20:20 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80397.D | 40 | 11/22/21 15:26 | FS | 11/11/21 08:00 | OP88296    | S2Q1136          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

### PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.201  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.135  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0215 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

### PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0603            | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.29 <sup>a</sup> | 0.15   | 0.074  | 0.037   | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 4.11 <sup>a</sup> | 0.15   | 0.074  | 0.037   | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |     |         |
|------------|-----|-----|---------|
| 13C4-PFHpA | 81% | 78% | 50-150% |
| 13C8-PFOA  | 88% | 88% | 50-150% |
| 13C9-PFNA  | 80% | 91% | 50-150% |
| 13C3-PFBS  | 84% | 83% | 50-150% |
| 13C3-PFHxS | 80% | 90% | 50-150% |
| 13C8-PFOS  | 70% | 84% | 50-150% |

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-41 DUP                        |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-15                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80263.D | 1  | 11/18/21 20:56 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80308.D | 20 | 11/19/21 16:58 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.193  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.129  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0210 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0581            | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.35 <sup>a</sup> | 0.074  | 0.037  | 0.019   | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 3.97 <sup>a</sup> | 0.074  | 0.037  | 0.019   | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 69% | 106% | 50-150% |
| 13C8-PFOA  | 75% | 112% | 50-150% |
| 13C9-PFNA  | 68% | 111% | 50-150% |
| 13C3-PFBS  | 72% | 102% | 50-150% |
| 13C3-PFHxS | 67% | 105% | 50-150% |
| 13C8-PFOS  | 57% | 103% | 50-150% |

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-42                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-16                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80264.D | 1  | 11/18/21 21:14 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80309.D | 10 | 11/19/21 17:16 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

### PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.135  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.120  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0054 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

### PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.280             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.64 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 2.08 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 78% | 121% | 50-150% |
| 13C8-PFOA  | 84% | 130% | 50-150% |
| 13C9-PFNA  | 82% | 129% | 50-150% |
| 13C3-PFBS  | 81% | 125% | 50-150% |
| 13C3-PFHxS | 76% | 126% | 50-150% |
| 13C8-PFOS  | 73% | 114% | 50-150% |

(a) Result is from Run# 2

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-43                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-17                       | <b>Date Sampled:</b>   | 10/27/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80268.D | 1  | 11/18/21 22:26 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80310.D | 10 | 11/19/21 17:34 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |                    |        |        |         |      |  |
|----------|-------------------------|--------------------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.506 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.362              | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0246             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.224             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.98 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 2.83 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 77% | 112% | 50-150% |
| 13C8-PFOA  | 76% | 120% | 50-150% |
| 13C9-PFNA  | 80% | 122% | 50-150% |
| 13C3-PFBS  | 80% | 110% | 50-150% |
| 13C3-PFHxS | 74% | 113% | 50-150% |
| 13C8-PFOS  | 67% | 108% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-44                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-18                       | <b>Date Sampled:</b>   | 10/27/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80269.D | 1  | 11/18/21 22:44 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80312.D | 20 | 11/19/21 18:10 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.142  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.102  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0160 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.103             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.30 <sup>a</sup> | 0.074  | 0.037  | 0.019   | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 4.00 <sup>a</sup> | 0.074  | 0.037  | 0.019   | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |      |         |
|------------|-----|------|---------|
| 13C4-PFHpA | 72% | 104% | 50-150% |
| 13C8-PFOA  | 78% | 108% | 50-150% |
| 13C9-PFNA  | 70% | 112% | 50-150% |
| 13C3-PFBS  | 73% | 102% | 50-150% |
| 13C3-PFHxS | 70% | 105% | 50-150% |
| 13C8-PFOS  | 56% | 107% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-45                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-19                       | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80270.D | 1  | 11/18/21 23:02 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80313.D | 5  | 11/19/21 18:28 | FS | 11/11/21 08:00 | OP88296    | S2Q1135          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |   |
|----------|-------------------------|--------|--------|--------|---------|------|---|
| 375-85-9 | Perfluoroheptanoic acid | 0.0543 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 335-67-1 | Perfluorooctanoic acid  | 0.0282 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 375-95-1 | Perfluorononanoic acid  | 0.0016 | 0.0037 | 0.0019 | 0.00093 | ug/l | J |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                    |        |        |         |      |  |
|-----------|------------------------------|--------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0658             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.442 <sup>a</sup> | 0.019  | 0.0093 | 0.0046  | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.346 <sup>a</sup> | 0.019  | 0.0093 | 0.0046  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |     |         |
|------------|-----|-----|---------|
| 13C4-PFHpA | 70% | 76% | 50-150% |
| 13C8-PFOA  | 72% | 81% | 50-150% |
| 13C9-PFNA  | 69% | 81% | 50-150% |
| 13C3-PFBS  | 69% | 82% | 50-150% |
| 13C3-PFHxS | 66% | 75% | 50-150% |
| 13C8-PFOS  | 57% | 75% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-46                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-20                       | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 2Q80271.D | 1  | 11/18/21 23:20 | FS | 11/11/21 08:00 | OP88296    | S2Q1134          |
| Run #2 | 2Q80473.D | 80 | 11/23/21 15:45 | FS | 11/11/21 08:00 | OP88296    | S2Q1137          |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |                     |        |        |         |      |   |
|----------|-------------------------|---------------------|--------|--------|---------|------|---|
| 375-85-9 | Perfluoroheptanoic acid | 0.234 <sup>a</sup>  | 0.30   | 0.15   | 0.074   | ug/l | J |
| 335-67-1 | Perfluorooctanoic acid  | 0.236               | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 375-95-1 | Perfluorononanoic acid  | 0.15 U <sup>a</sup> | 0.30   | 0.15   | 0.074   | ug/l |   |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.126             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 6.54 <sup>a</sup> | 0.30   | 0.15   | 0.074   | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 14.9 <sup>a</sup> | 0.30   | 0.15   | 0.074   | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |                  |      |         |
|------------|------------------|------|---------|
| 13C4-PFHpA | 48% <sup>b</sup> | 109% | 50-150% |
| 13C8-PFOA  | 71%              | 114% | 50-150% |
| 13C9-PFNA  | 41% <sup>b</sup> | 110% | 50-150% |
| 13C3-PFBS  | 68%              | 107% | 50-150% |
| 13C3-PFHxS | 50%              | 105% | 50-150% |
| 13C8-PFOS  | 34% <sup>b</sup> | 111% | 50-150% |

(a) Result is from Run# 2

(b) Outside control limits.

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-47                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-21                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49389.D | 1  | 11/23/21 22:30 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 | 4Q22632.D | 10 | 11/24/21 20:18 | NG | 11/22/21 08:30 | OP88477    | S4Q310           |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.141  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0630 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0041 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                    |        |        |         |      |  |
|-----------|------------------------------|--------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0334             | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.401 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.637 <sup>a</sup> | 0.037  | 0.019  | 0.0093  | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |     |     |         |
|------------|-----|-----|---------|
| 13C4-PFHpA | 88% | 84% | 50-150% |
| 13C8-PFOA  | 94% | 79% | 50-150% |
| 13C9-PFNA  | 95% | 86% | 50-150% |
| 13C3-PFBS  | 89% | 82% | 50-150% |
| 13C3-PFHxS | 91% | 84% | 50-150% |
| 13C8-PFOS  | 93% | 83% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-48                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-22                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49390.D | 1  | 11/23/21 22:46 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.115    | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0396   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |   |
|-----------|------------------------------|--------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0642 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.293  | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0027 | 0.0037 | 0.0019 | 0.00093 | ug/l | J |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |      |  |  |         |
|--|------------|------|--|--|---------|
|  | 13C4-PFHpA | 103% |  |  | 50-150% |
|  | 13C8-PFOA  | 113% |  |  | 50-150% |
|  | 13C9-PFNA  | 114% |  |  | 50-150% |
|  | 13C3-PFBS  | 102% |  |  | 50-150% |
|  | 13C3-PFHxS | 108% |  |  | 50-150% |
|  | 13C8-PFOS  | 111% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-24                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-23                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49391.D | 1  | 11/23/21 23:03 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |   |
|-----------|------------------------------|--------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0025 | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0059 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0076 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |      |  |  |         |
|--|------------|------|--|--|---------|
|  | 13C4-PFHpA | 98%  |  |  | 50-150% |
|  | 13C8-PFOA  | 107% |  |  | 50-150% |
|  | 13C9-PFNA  | 104% |  |  | 50-150% |
|  | 13C3-PFBS  | 97%  |  |  | 50-150% |
|  | 13C3-PFHxS | 104% |  |  | 50-150% |
|  | 13C8-PFOS  | 105% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-51                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-24                       | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49392.D | 1  | 11/23/21 23:19 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 | 4Q22635.D | 40 | 11/24/21 21:02 | NG | 11/22/21 08:30 | OP88477    | S4Q310           |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 | 270 ml         | 1.0 ml       |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

## PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |        |        |        |         |      |  |
|----------|-------------------------|--------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.153  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.146  | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0209 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |                   |        |        |         |      |  |
|-----------|------------------------------|-------------------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0483            | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.29 <sup>a</sup> | 0.15   | 0.074  | 0.037   | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 3.28 <sup>a</sup> | 0.15   | 0.074  | 0.037   | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |      |      |         |
|------------|------|------|---------|
| 13C4-PFHpA | 88%  | 131% | 50-150% |
| 13C8-PFOA  | 100% | 127% | 50-150% |
| 13C9-PFNA  | 85%  | 124% | 50-150% |
| 13C3-PFBS  | 90%  | 121% | 50-150% |
| 13C3-PFHxS | 91%  | 123% | 50-150% |
| 13C8-PFOS  | 77%  | 141% | 50-150% |

(a) Result is from Run# 2

U = Not detected

LOD = Limit of Detection

J = Indicates an estimated value

LOQ = Limit of Quantitation

DL = Detection Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-53                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-25                       | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 4Q22636.D | 1  | 11/24/21 21:16 | NG | 11/22/21 08:30 | OP88477    | S4Q310           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |          |        |        |         |      |   |
|-----------|------------------------------|----------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0023   | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0032   | 0.0037 | 0.0019 | 0.00093 | ug/l | J |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |     |  |  |         |
|--|------------|-----|--|--|---------|
|  | 13C4-PFHpA | 73% |  |  | 50-150% |
|  | 13C8-PFOA  | 74% |  |  | 50-150% |
|  | 13C9-PFNA  | 74% |  |  | 50-150% |
|  | 13C3-PFBS  | 70% |  |  | 50-150% |
|  | 13C3-PFHxS | 70% |  |  | 50-150% |
|  | 13C8-PFOS  | 73% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-55                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-26                       | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49396.D | 1  | 11/24/21 00:26 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0196   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0051   | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |  |
|-----------|------------------------------|--------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0192 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0548 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0098 | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|------------------------|--------|--------|--------|
|---------|------------------------|--------|--------|--------|

|            |      |  |         |
|------------|------|--|---------|
| 13C4-PFHpA | 104% |  | 50-150% |
| 13C8-PFOA  | 115% |  | 50-150% |
| 13C9-PFNA  | 114% |  | 50-150% |
| 13C3-PFBS  | 103% |  | 50-150% |
| 13C3-PFHxS | 110% |  | 50-150% |
| 13C8-PFOS  | 112% |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

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|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-56                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-27                       | <b>Date Sampled:</b>   | 10/28/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49397.D | 1  | 11/24/21 00:42 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 260 ml         | 1.0 ml       |
| Run #2 |                |              |

## Perfluorinated Carboxylic Acids and Sulfonates

| CAS No.                               | Compound                | Result   | LOQ    | LOD    | DL      | Units | Q |
|---------------------------------------|-------------------------|----------|--------|--------|---------|-------|---|
| <b>PERFLUOROALKYLCARBOXYLIC ACIDS</b> |                         |          |        |        |         |       |   |
| 375-85-9                              | Perfluoroheptanoic acid | 0.0080   | 0.0038 | 0.0019 | 0.00096 | ug/l  |   |
| 335-67-1                              | Perfluorooctanoic acid  | 0.0037   | 0.0038 | 0.0019 | 0.00096 | ug/l  | J |
| 375-95-1                              | Perfluorononanoic acid  | 0.0019 U | 0.0038 | 0.0019 | 0.00096 | ug/l  |   |

## PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |   |
|-----------|------------------------------|--------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0029 | 0.0038 | 0.0019 | 0.00096 | ug/l | J |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0078 | 0.0038 | 0.0019 | 0.00096 | ug/l |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0134 | 0.0038 | 0.0019 | 0.00096 | ug/l |   |

| CAS No. | ID Standard Recoveries | Run# 1 | Run# 2 | Limits  |
|---------|------------------------|--------|--------|---------|
|         | 13C4-PFHpA             | 67%    |        | 50-150% |
|         | 13C8-PFOA              | 76%    |        | 50-150% |
|         | 13C9-PFNA              | 78%    |        | 50-150% |
|         | 13C3-PFBS              | 66%    |        | 50-150% |
|         | 13C3-PFHxS             | 75%    |        | 50-150% |
|         | 13C8-PFOS              | 78%    |        | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
 LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                                                  |  |  |  |                                |  |  |  |
|--------------------------------------------------|--|--|--|--------------------------------|--|--|--|
| <b>Client Sample ID:</b> MW-59                   |  |  |  |                                |  |  |  |
| <b>Lab Sample ID:</b> FA90390-28                 |  |  |  | <b>Date Sampled:</b> 10/27/21  |  |  |  |
| <b>Matrix:</b> AQ - Ground Water                 |  |  |  | <b>Date Received:</b> 11/02/21 |  |  |  |
| <b>Method:</b> EPA 537M QSM5.3 B-15 EPA 537 MOD  |  |  |  | <b>Percent Solids:</b> n/a     |  |  |  |
| <b>Project:</b> DFSP; 5449 W Main St, Verona, NY |  |  |  |                                |  |  |  |

|        |                |           |                 |           |                  |                   |                         |
|--------|----------------|-----------|-----------------|-----------|------------------|-------------------|-------------------------|
|        | <b>File ID</b> | <b>DF</b> | <b>Analyzed</b> | <b>By</b> | <b>Prep Date</b> | <b>Prep Batch</b> | <b>Analytical Batch</b> |
| Run #1 | 3Q49398.D      | 1         | 11/24/21 00:59  | NG        | 11/22/21 08:30   | OP88477           | S3Q697                  |
| Run #2 |                |           |                 |           |                  |                   |                         |

|        |                       |                     |
|--------|-----------------------|---------------------|
|        | <b>Initial Volume</b> | <b>Final Volume</b> |
| Run #1 | 270 ml                | 1.0 ml              |
| Run #2 |                       |                     |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |   |
|----------|-------------------------|----------|--------|--------|---------|------|---|
| 375-85-9 | Perfluoroheptanoic acid | 0.0032   | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 335-67-1 | Perfluorooctanoic acid  | 0.0015   | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |   |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |   |
|-----------|------------------------------|--------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0056 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0139 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0018 | 0.0037 | 0.0019 | 0.00093 | ug/l | J |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |      |  |  |         |
|--|------------|------|--|--|---------|
|  | 13C4-PFHpA | 99%  |  |  | 50-150% |
|  | 13C8-PFOA  | 110% |  |  | 50-150% |
|  | 13C9-PFNA  | 115% |  |  | 50-150% |
|  | 13C3-PFBS  | 94%  |  |  | 50-150% |
|  | 13C3-PFHxS | 109% |  |  | 50-150% |
|  | 13C8-PFOS  | 114% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |                        |          |
|--------------------------|----------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-60                            |                        |          |
| <b>Lab Sample ID:</b>    | FA90390-29                       | <b>Date Sampled:</b>   | 10/27/21 |
| <b>Matrix:</b>           | AQ - Ground Water                | <b>Date Received:</b>  | 11/02/21 |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD | <b>Percent Solids:</b> | n/a      |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49399.D | 1  | 11/24/21 01:15 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |   |
|----------|-------------------------|----------|--------|--------|---------|------|---|
| 375-85-9 | Perfluoroheptanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 335-67-1 | Perfluorooctanoic acid  | 0.0011   | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |   |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |        |        |        |         |      |   |
|-----------|------------------------------|--------|--------|--------|---------|------|---|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0012 | 0.0037 | 0.0019 | 0.00093 | ug/l | J |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0043 | 0.0037 | 0.0019 | 0.00093 | ug/l |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0020 | 0.0037 | 0.0019 | 0.00093 | ug/l | J |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |     |  |  |         |
|--|------------|-----|--|--|---------|
|  | 13C4-PFHpA | 68% |  |  | 50-150% |
|  | 13C8-PFOA  | 80% |  |  | 50-150% |
|  | 13C9-PFNA  | 84% |  |  | 50-150% |
|  | 13C3-PFBS  | 63% |  |  | 50-150% |
|  | 13C3-PFHxS | 77% |  |  | 50-150% |
|  | 13C8-PFOS  | 82% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

Report of Analysis

|                          |                                  |  |  |                        |          |
|--------------------------|----------------------------------|--|--|------------------------|----------|
| <b>Client Sample ID:</b> | EQUIPMENT BLANK                  |  |  | <b>Date Sampled:</b>   | 10/29/21 |
| <b>Lab Sample ID:</b>    | FA90390-30                       |  |  | <b>Date Received:</b>  | 11/02/21 |
| <b>Matrix:</b>           | AQ - Equipment Blank             |  |  | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | EPA 537M QSM5.3 B-15 EPA 537 MOD |  |  |                        |          |
| <b>Project:</b>          | DFSP; 5449 W Main St, Verona, NY |  |  |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date      | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|----------------|------------|------------------|
| Run #1 | 3Q49400.D | 1  | 11/24/21 01:32 | NG | 11/22/21 08:30 | OP88477    | S3Q697           |
| Run #2 |           |    |                |    |                |            |                  |

|        | Initial Volume | Final Volume |
|--------|----------------|--------------|
| Run #1 | 270 ml         | 1.0 ml       |
| Run #2 |                |              |

Perfluorinated Carboxylic Acids and Sulfonates

| CAS No. | Compound | Result | LOQ | LOD | DL | Units | Q |
|---------|----------|--------|-----|-----|----|-------|---|
|---------|----------|--------|-----|-----|----|-------|---|

PERFLUOROALKYLCARBOXYLIC ACIDS

|          |                         |          |        |        |         |      |  |
|----------|-------------------------|----------|--------|--------|---------|------|--|
| 375-85-9 | Perfluoroheptanoic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 335-67-1 | Perfluorooctanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 375-95-1 | Perfluorononanoic acid  | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

PERFLUOROALKYLSULFONIC ACIDS

|           |                              |          |        |        |         |      |  |
|-----------|------------------------------|----------|--------|--------|---------|------|--|
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.0019 U | 0.0037 | 0.0019 | 0.00093 | ug/l |  |

| CAS No. | ID | Standard Recoveries | Run# 1 | Run# 2 | Limits |
|---------|----|---------------------|--------|--------|--------|
|---------|----|---------------------|--------|--------|--------|

|  |            |      |  |  |         |
|--|------------|------|--|--|---------|
|  | 13C4-PFHpA | 108% |  |  | 50-150% |
|  | 13C8-PFOA  | 116% |  |  | 50-150% |
|  | 13C9-PFNA  | 115% |  |  | 50-150% |
|  | 13C3-PFBS  | 108% |  |  | 50-150% |
|  | 13C3-PFHxS | 113% |  |  | 50-150% |
|  | 13C8-PFOS  | 112% |  |  | 50-150% |

U = Not detected      LOD = Limit of Detection      J = Indicates an estimated value  
LOQ = Limit of Quantitation      DL = Detection Limit      B = Indicates analyte found in associated method blank  
E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Misc. Forms

5

### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits



SGS North America Inc - Orlando

## Chain of Custody

4405 Vineland Road, Suite C-15 Orlando, FL 32811  
TEL: 407-425-6700 FAX: 407-425-0707  
www.sgs.com

FA90390

SGS - ORLANDO JOB #:

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| Client / Reporting Information                                                                                             |                                |                           |      | Project Information                     |        |                           |       | Analytical Information                                                                                                                                                                                                                                 |     |                             |      |                         |           |                          |      |   |  |  |  | Matrix Codes                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------|------|-----------------------------------------|--------|---------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------|------|-------------------------|-----------|--------------------------|------|---|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name: <b>Tk+K Services</b>                                                                                         |                                |                           |      | Project Name: <b>BFSP Verona</b>        |        |                           |       | <div>SGS - ORLANDO Quote #</div> <div>SKIFF #</div> <div>EPA 53M 1063M 5.3 B-15</div>                                                                                                                                                                  |     |                             |      |                         |           |                          |      |   |  |  |  | DW - Drinking Water<br>GW - Ground Water<br>WW - Water<br>SW - Surface Water<br>SO - Soil<br>SL - Sludge<br>OI - Oil<br>LIQ - Other Liquid<br>AIR - Air<br>SOL - Other Solid |
| Address: <b>719 Hark St</b>                                                                                                |                                |                           |      | Street: <b>SP19 W. Minto St</b>         |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| City: <b>Beverly</b> State: <b>MA</b> Zip: <b>01915</b>                                                                    |                                |                           |      | City: <b>Verona</b> State: <b>MA</b>    |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Project Contact: <b>Brian Emery</b> Email: <b>Brian.Emery@tkk.com</b>                                                      |                                |                           |      | Project # <b>see p. 2</b>               |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Phone #: <b>857-286-7634</b>                                                                                               |                                |                           |      | Fax #                                   |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Sampler(s) Name(s) (Printed): <b>ADIRYNAK</b>                                                                              |                                |                           |      | Client Purchase Order # <b>see p. 2</b> |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Sampler 1:                                                                                                                 |                                |                           |      | Sampler 2:                              |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| COLLECTION                                                                                                                 |                                |                           |      | CONTAINER INFORMATION                   |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| SGS Orlando Sample #                                                                                                       | Field ID / Point of Collection | DATE                      | TIME | SAMPLED BY                              | MATRIX | TOTAL # OF BOTTLES        | OTHER | NONE                                                                                                                                                                                                                                                   | HCl | NOH                         | HNO3 | H2SO4                   | NaOH+ZnAA | DI WATER                 | MEDI |   |  |  |  |                                                                                                                                                                              |
| 1                                                                                                                          | MW-2R                          | 10/28/21                  | 1512 | GE                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 2                                                                                                                          | MW-5                           | 10/27/21                  | 1549 | GE                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 3                                                                                                                          | MW-13                          | 10/28/21                  | 1035 | DM                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 4                                                                                                                          | MW-29                          | 10/28/21                  | 1159 | GE                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 5                                                                                                                          | MW-30                          | 10/28/21                  | 1159 | DM                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 6                                                                                                                          | MW-32                          | 10/28/21                  | 1430 | DM                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 7                                                                                                                          | MW-32 Dup                      | 10/28/21                  | 1430 | DM                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 8                                                                                                                          | MW-33R                         | 10/29/21                  | 1234 | GE                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 9                                                                                                                          | MW-35                          | 10/28/21                  | 1200 | DM                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 10                                                                                                                         | MW-36                          | 10/28/21                  | 1310 | GE                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 11                                                                                                                         | MW-38                          | 10/29/21                  | 1305 | GE                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| 12                                                                                                                         | MW-39                          | 10/29/21                  | 1055 | DM                                      | GW     | 2                         |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      | X |  |  |  |                                                                                                                                                                              |
| Turnaround Time (Business days)                                                                                            |                                |                           |      | Data Deliverable Information            |        |                           |       | LABEL VERIFICATION                                                                                                                                                                                                                                     |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| 10 Day (Business) <input checked="" type="checkbox"/><br>7 Day<br>5 Day<br>3 Day RUSH<br>2 Day RUSH<br>1 Day RUSH<br>Other |                                |                           |      | Approved By: / Date: _____<br>_____     |        |                           |       | <input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY)<br><input type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC)<br><input type="checkbox"/> REDT1 (EPA LEVEL 3)<br><input type="checkbox"/> FULLT1 (EPA LEVEL 4)<br><input type="checkbox"/> EDD'S |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Rush T/A Data Available VIA Email or Lablink                                                                               |                                |                           |      |                                         |        |                           |       | SGS Service Center<br>Northborough, MA                                                                                                                                                                                                                 |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Sample Custody must be documented below each time samples change possession, including courier delivery.                   |                                |                           |      |                                         |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Relinquished by Sampler/Affiliation                                                                                        |                                | Date Time: 10/29/21 14:08 |      | Received By/Affiliation                 |        | Date Time: 10-28-21 17:08 |       | Relinquished By/Affiliation                                                                                                                                                                                                                            |     | Date Time: 11-1-2021 11:25A |      | Received By/Affiliation |           | Date Time: 11/2/21 10:00 |      |   |  |  |  |                                                                                                                                                                              |
| 1 <b>SGS</b>                                                                                                               |                                |                           |      | 2 <b>Brian G. Emery</b>                 |        |                           |       | 3 <b>Brian G. Emery</b>                                                                                                                                                                                                                                |     |                             |      | 4 <b>SGS</b>            |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| 5 <b>SGS</b>                                                                                                               |                                | 10/29/21 14:08            |      | 6 <b>Emery</b>                          |        |                           |       | 7 <b>Emery</b>                                                                                                                                                                                                                                         |     |                             |      | 8 <b>Emery</b>          |           |                          |      |   |  |  |  |                                                                                                                                                                              |
| Lab Use Only: Cooler Temperature (if Celsius (corrected): <b>0.6, 1.2-10.1</b> )                                           |                                |                           |      |                                         |        |                           |       |                                                                                                                                                                                                                                                        |     |                             |      |                         |           |                          |      |   |  |  |  |                                                                                                                                                                              |

ORLD-SMT-0001-03-FORM-COC (4).xls Rev 031318

FA90390: Chain of Custody

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## SGS Sample Receipt Summary

Job Number: FA90390

Client: TK&K SERVICES

Project: DFSP VERONA

Date / Time Received: 11/2/2021 10:00:00 AM

Delivery Method: FX

Airbill #s:

Therm ID: IR 1;

Therm CF: 0.2;

# of Coolers: 1

Cooler Temps (Raw Measured) °C: Cooler 2: (1.0); Cooler 1: (0.4);

Cooler Temps (Corrected) °C: Cooler 2: (1.2); Cooler 1: (0.6);

### Cooler Information

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | <u>IR Gun</u>                       |                          |
| 5. Cooler media             | <u>Ice (Bag)</u>                    |                          |

### Trip Blank Information

Y or N N/A

- |                                |                          |                          |                                     |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                | <u>W</u> or <u>S</u>     | <u>N/A</u>               |                                     |
| 3. Type Of TB Received         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### Sample Information

Y or N N/A

- |                                                     |                                     |                                     |                                     |
|-----------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | <u>Intact</u>                       |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

### Misc. Information

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments

SM001  
Rev. Date 05/24/17

Technician: PETERH

Date: 11/2/2021 10:00:00 A

Reviewer:

Date:

FA90390: Chain of Custody

Page 4 of 4

# QC Evaluation: DOD QSM5.x Limits

Page 1 of 2

**Job Number:** FA90390  
**Account:** TK&K Services  
**Project:** DFSP; 5449 W Main St, Verona, NY  
**Collected:** 10/27/21 thru 10/29/21

| QC Sample ID | CAS# | Analyte | Sample Type | Result Type | Result | Units | Limits |
|--------------|------|---------|-------------|-------------|--------|-------|--------|
|--------------|------|---------|-------------|-------------|--------|-------|--------|

## OP88296 EPA 537M QSM5.3 B-15

|             |           |                              |     |     |                  |   |        |
|-------------|-----------|------------------------------|-----|-----|------------------|---|--------|
| OP88296-BS  | 375-85-9  | Perfluoroheptanoic acid      | BSP | REC | 103              | % | 72-130 |
| OP88296-BS  | 335-67-1  | Perfluorooctanoic acid       | BSP | REC | 101              | % | 71-133 |
| OP88296-BS  | 375-95-1  | Perfluorononanoic acid       | BSP | REC | 100              | % | 69-130 |
| OP88296-BS  | 375-73-5  | Perfluorobutanesulfonic acid | BSP | REC | 102              | % | 73-130 |
| OP88296-BS  | 355-46-4  | Perfluorohexanesulfonic acid | BSP | REC | 108              | % | 68-131 |
| OP88296-BS  | 1763-23-1 | Perfluorooctanesulfonic acid | BSP | REC | 100              | % | 65-140 |
| OP88296-MS  | 375-85-9  | Perfluoroheptanoic acid      | MS  | REC | 87               | % | 72-130 |
| OP88296-MS  | 335-67-1  | Perfluorooctanoic acid       | MS  | REC | 96               | % | 71-133 |
| OP88296-MS  | 375-95-1  | Perfluorononanoic acid       | MS  | REC | 95               | % | 69-130 |
| OP88296-MS  | 375-73-5  | Perfluorobutanesulfonic acid | MS  | REC | 65               | % | 73-130 |
| OP88296-MS  | 355-46-4  | Perfluorohexanesulfonic acid | MS  | REC | 174 <sup>a</sup> | % | 68-131 |
| OP88296-MS  | 1763-23-1 | Perfluorooctanesulfonic acid | MS  | REC | 810 <sup>a</sup> | % | 65-140 |
| OP88296-DUP | 375-85-9  | Perfluoroheptanoic acid      | DUP | RPD | 15               | % | 30     |
| OP88296-DUP | 335-67-1  | Perfluorooctanoic acid       | DUP | RPD | 9                | % | 30     |
| OP88296-DUP | 375-95-1  | Perfluorononanoic acid       | DUP | RPD | 9                | % | 30     |
| OP88296-DUP | 375-73-5  | Perfluorobutanesulfonic acid | DUP | RPD | 17               | % | 30     |
| OP88296-DUP | 355-46-4  | Perfluorohexanesulfonic acid | DUP | RPD | 3                | % | 30     |
| OP88296-DUP | 1763-23-1 | Perfluorooctanesulfonic acid | DUP | RPD | 6                | % | 30     |

## OP88477 EPA 537M QSM5.3 B-15

|              |           |                              |     |     |     |   |        |
|--------------|-----------|------------------------------|-----|-----|-----|---|--------|
| OP88477-BS   | 375-85-9  | Perfluoroheptanoic acid      | BSP | REC | 88  | % | 72-130 |
| OP88477-BS   | 335-67-1  | Perfluorooctanoic acid       | BSP | REC | 85  | % | 71-133 |
| OP88477-BS   | 375-95-1  | Perfluorononanoic acid       | BSP | REC | 89  | % | 69-130 |
| OP88477-BS   | 375-73-5  | Perfluorobutanesulfonic acid | BSP | REC | 88  | % | 73-130 |
| OP88477-BS   | 355-46-4  | Perfluorohexanesulfonic acid | BSP | REC | 86  | % | 68-131 |
| OP88477-BS   | 1763-23-1 | Perfluorooctanesulfonic acid | BSP | REC | 87  | % | 65-140 |
| OP88477-MS*  | 375-85-9  | Perfluoroheptanoic acid      | MS  | REC | 92  | % | 72-130 |
| OP88477-MS*  | 335-67-1  | Perfluorooctanoic acid       | MS  | REC | 90  | % | 71-133 |
| OP88477-MS*  | 375-95-1  | Perfluorononanoic acid       | MS  | REC | 91  | % | 69-130 |
| OP88477-MS*  | 375-73-5  | Perfluorobutanesulfonic acid | MS  | REC | 95  | % | 73-130 |
| OP88477-MS*  | 355-46-4  | Perfluorohexanesulfonic acid | MS  | REC | 115 | % | 68-131 |
| OP88477-MS*  | 1763-23-1 | Perfluorooctanesulfonic acid | MS  | REC | 99  | % | 65-140 |
| OP88477-MSD* | 375-85-9  | Perfluoroheptanoic acid      | MSD | REC | 84  | % | 72-130 |
| OP88477-MSD* | 375-85-9  | Perfluoroheptanoic acid      | MSD | RPD | 6   | % | 30     |
| OP88477-MSD* | 335-67-1  | Perfluorooctanoic acid       | MSD | REC | 82  | % | 71-133 |
| OP88477-MSD* | 335-67-1  | Perfluorooctanoic acid       | MSD | RPD | 6   | % | 30     |
| OP88477-MSD* | 375-95-1  | Perfluorononanoic acid       | MSD | REC | 86  | % | 69-130 |
| OP88477-MSD* | 375-95-1  | Perfluorononanoic acid       | MSD | RPD | 5   | % | 30     |
| OP88477-MSD* | 375-73-5  | Perfluorobutanesulfonic acid | MSD | REC | 86  | % | 73-130 |
| OP88477-MSD* | 375-73-5  | Perfluorobutanesulfonic acid | MSD | RPD | 4   | % | 30     |
| OP88477-MSD* | 355-46-4  | Perfluorohexanesulfonic acid | MSD | REC | 87  | % | 68-131 |

\* Sample used for QC is not from job FA90390

QC Evaluation: DOD QSM5.x Limits

Job Number: FA90390  
Account: TK&K Services  
Project: DFSP; 5449 W Main St, Verona, NY  
Collected: 10/27/21 thru 10/29/21

| QC Sample ID | CAS#      | Analyte                      | Sample Type | Result Type | Result | Units | Limits |
|--------------|-----------|------------------------------|-------------|-------------|--------|-------|--------|
| OP88477-MSD* | 355-46-4  | Perfluorohexanesulfonic acid | MSD         | RPD         | 5      | %     | 30     |
| OP88477-MSD* | 1763-23-1 | Perfluorooctanesulfonic acid | MSD         | REC         | 68     | %     | 65-140 |
| OP88477-MSD* | 1763-23-1 | Perfluorooctanesulfonic acid | MSD         | RPD         | 7      | %     | 30     |

(a) Outside control limits due to high level in sample relative to spike amount.

\* Sample used for QC is not from job FA90390



## MS Semi-volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

## Instrument Blank

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Job Number: FA90390

Account: TKKMAB TK&amp;K Services

Project: DFSP; 5449 W Main St, Verona, NY

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| S2Q1134-IBLK | 2Q80229.D | 1  | 11/18/21 | FS | n/a       | n/a        | S2Q1134          |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-1, FA90390-2, FA90390-3, FA90390-4, FA90390-5, FA90390-7, FA90390-8, FA90390-9, FA90390-10, FA90390-12, FA90390-13, FA90390-14, FA90390-15, FA90390-16, FA90390-17, FA90390-18, FA90390-19, FA90390-20

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 335-67-1  | Perfluorooctanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-73-5  | Perfluorobutanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits       |
|---------|------------------------|--------------|
|         | 13C4-PFBA              | 101% 50-150% |
|         | 13C5-PFPeA             | 101% 50-150% |
|         | 13C5-PFHxA             | 101% 50-150% |
|         | 13C4-PFHpA             | 102% 50-150% |
|         | 13C8-PFOA              | 106% 50-150% |
|         | 13C9-PFNA              | 106% 50-150% |
|         | 13C6-PFDA              | 109% 50-150% |
|         | 13C7-PFUnDA            | 112% 50-150% |
|         | 13C2-PFDoDA            | 107% 50-150% |
|         | 13C2-PFTeDA            | 103% 50-150% |
|         | 13C3-PFBS              | 103% 50-150% |
|         | 13C3-PFHxS             | 102% 50-150% |
|         | 13C8-PFOS              | 107% 50-150% |
|         | 13C8-FOSA              | 108% 50-150% |
|         | d3-MeFOSAA             | 117% 50-150% |
|         | d5-EtFOSAA             | 121% 50-150% |
|         | 13C2-4:2FTS            | 99% 50-150%  |
|         | 13C2-6:2FTS            | 102% 50-150% |
|         | 13C2-8:2FTS            | 104% 50-150% |

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Job Number: FA90390

Account: TKKMAB TK&amp;K Services

Project: DFSP; 5449 W Main St, Verona, NY

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| S2Q1135-IBLK | 2Q80291.D | 1  | 11/19/21 | FS | n/a       | n/a        | S2Q1135          |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-5, FA90390-7, FA90390-8, FA90390-10, FA90390-11, FA90390-12, FA90390-13, FA90390-15, FA90390-16, FA90390-17, FA90390-18, FA90390-19

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 335-67-1  | Perfluorooctanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-73-5  | Perfluorobutanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits |         |
|---------|------------------------|--------|---------|
|         | 13C4-PFBA              | 100%   | 50-150% |
|         | 13C5-PFPeA             | 102%   | 50-150% |
|         | 13C5-PFHxA             | 101%   | 50-150% |
|         | 13C4-PFHpA             | 101%   | 50-150% |
|         | 13C8-PFOA              | 107%   | 50-150% |
|         | 13C9-PFNA              | 108%   | 50-150% |
|         | 13C6-PFDA              | 107%   | 50-150% |
|         | 13C7-PFUnDA            | 109%   | 50-150% |
|         | 13C2-PFDoDA            | 103%   | 50-150% |
|         | 13C2-PFTeDA            | 104%   | 50-150% |
|         | 13C3-PFBS              | 102%   | 50-150% |
|         | 13C3-PFHxS             | 99%    | 50-150% |
|         | 13C8-PFOS              | 107%   | 50-150% |
|         | 13C8-FOSA              | 110%   | 50-150% |
|         | d3-MeFOSAA             | 107%   | 50-150% |
|         | d5-EtFOSAA             | 110%   | 50-150% |
|         | 13C2-4:2FTS            | 101%   | 50-150% |
|         | 13C2-6:2FTS            | 107%   | 50-150% |
|         | 13C2-8:2FTS            | 104%   | 50-150% |

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Job Number: FA90390

Account: TKKMAB TK&amp;K Services

Project: DFSP; 5449 W Main St, Verona, NY

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| S2Q1136-IBLK | 2Q80389.D | 1  | 11/22/21 | FS | n/a       | n/a        | S2Q1136          |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-6, FA90390-14

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 335-67-1  | Perfluorooctanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-73-5  | Perfluorobutanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits       |
|---------|------------------------|--------------|
|         | 13C4-PFBA              | 93% 50-150%  |
|         | 13C5-PFPeA             | 94% 50-150%  |
|         | 13C5-PFHxA             | 96% 50-150%  |
|         | 13C4-PFHpA             | 96% 50-150%  |
|         | 13C8-PFOA              | 100% 50-150% |
|         | 13C9-PFNA              | 100% 50-150% |
|         | 13C6-PFDA              | 102% 50-150% |
|         | 13C7-PFUnDA            | 105% 50-150% |
|         | 13C2-PFDoDA            | 100% 50-150% |
|         | 13C2-PFTeDA            | 100% 50-150% |
|         | 13C3-PFBS              | 93% 50-150%  |
|         | 13C3-PFHxS             | 92% 50-150%  |
|         | 13C8-PFOS              | 99% 50-150%  |
|         | 13C8-FOSA              | 94% 50-150%  |
|         | d3-MeFOSAA             | 106% 50-150% |
|         | d5-EtFOSAA             | 108% 50-150% |
|         | 13C2-4:2FTS            | 90% 50-150%  |
|         | 13C2-6:2FTS            | 95% 50-150%  |
|         | 13C2-8:2FTS            | 99% 50-150%  |

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**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| S2Q1137-IBLK | 2Q80470.D | 1  | 11/23/21 | FS | n/a       | n/a        | S2Q1137          |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-20

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits |         |
|---------|------------------------|--------|---------|
|         | 13C4-PFBA              | 97%    | 50-150% |
|         | 13C5-PFPeA             | 99%    | 50-150% |
|         | 13C5-PFHxA             | 100%   | 50-150% |
|         | 13C4-PFHpA             | 98%    | 50-150% |
|         | 13C8-PFOA              | 102%   | 50-150% |
|         | 13C9-PFNA              | 100%   | 50-150% |
|         | 13C6-PFDA              | 104%   | 50-150% |
|         | 13C7-PFUnDA            | 106%   | 50-150% |
|         | 13C2-PFDoDA            | 99%    | 50-150% |
|         | 13C2-PFTeDA            | 100%   | 50-150% |
|         | 13C3-PFBS              | 96%    | 50-150% |
|         | 13C3-PFHxS             | 98%    | 50-150% |
|         | 13C8-PFOS              | 100%   | 50-150% |
|         | 13C8-FOSA              | 102%   | 50-150% |
|         | d3-MeFOSAA             | 114%   | 50-150% |
|         | d5-EtFOSAA             | 118%   | 50-150% |
|         | 13C2-4:2FTS            | 95%    | 50-150% |
|         | 13C2-6:2FTS            | 99%    | 50-150% |
|         | 13C2-8:2FTS            | 103%   | 50-150% |

Instrument Blank

Job Number: FA90390  
Account: TKKMAB TK&K Services  
Project: DFSP; 5449 W Main St, Verona, NY

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S3Q697-IBLK | 3Q49381.D | 1  | 11/23/21 | NG | n/a       | n/a        | S3Q697           |

The QC reported here applies to the following samples: Method: EPA 537M QSM5.3 B-15

FA90390-21, FA90390-22, FA90390-23, FA90390-24, FA90390-26, FA90390-27, FA90390-28, FA90390-29, FA90390-30

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 335-67-1  | Perfluorooctanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-73-5  | Perfluorobutanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits       |
|---------|------------------------|--------------|
|         | 13C4-PFBA              | 108% 50-150% |
|         | 13C5-PFPeA             | 109% 50-150% |
|         | 13C5-PFHxA             | 107% 50-150% |
|         | 13C4-PFHpA             | 109% 50-150% |
|         | 13C8-PFOA              | 118% 50-150% |
|         | 13C9-PFNA              | 120% 50-150% |
|         | 13C6-PFDA              | 122% 50-150% |
|         | 13C7-PFUnDA            | 117% 50-150% |
|         | 13C2-PFDoDA            | 111% 50-150% |
|         | 13C2-PFTeDA            | 120% 50-150% |
|         | 13C3-PFBS              | 111% 50-150% |
|         | 13C3-PFHxS             | 115% 50-150% |
|         | 13C8-PFOS              | 117% 50-150% |
|         | 13C8-FOSA              | 121% 50-150% |
|         | d3-MeFOSAA             | 131% 50-150% |
|         | d5-EtFOSAA             | 126% 50-150% |
|         | 13C2-4:2FTS            | 103% 50-150% |
|         | 13C2-6:2FTS            | 110% 50-150% |
|         | 13C2-8:2FTS            | 113% 50-150% |
|         | 13C3-HFPO-DA           | 102% 50-150% |

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Job Number: FA90390

Account: TKKMAB TK&amp;K Services

Project: DFSP; 5449 W Main St, Verona, NY

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| S4Q310-IBLK | 4Q22608.D | 1  | 11/24/21 | NG | n/a       | n/a        | S4Q310           |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-21, FA90390-24, FA90390-25

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 335-67-1  | Perfluorooctanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-73-5  | Perfluorobutanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits |         |
|---------|------------------------|--------|---------|
|         | 13C4-PFBA              | 87%    | 50-150% |
|         | 13C5-PFPeA             | 88%    | 50-150% |
|         | 13C5-PFHxA             | 88%    | 50-150% |
|         | 13C4-PFHpA             | 91%    | 50-150% |
|         | 13C8-PFOA              | 89%    | 50-150% |
|         | 13C9-PFNA              | 89%    | 50-150% |
|         | 13C6-PFDA              | 88%    | 50-150% |
|         | 13C7-PFUnDA            | 90%    | 50-150% |
|         | 13C2-PFDoDA            | 89%    | 50-150% |
|         | 13C2-PFTeDA            | 96%    | 50-150% |
|         | 13C3-PFBS              | 88%    | 50-150% |
|         | 13C3-PFHxS             | 88%    | 50-150% |
|         | 13C8-PFOS              | 89%    | 50-150% |
|         | 13C8-FOSA              | 81%    | 50-150% |
|         | d3-MeFOSAA             | 81%    | 50-150% |
|         | d5-EtFOSAA             | 81%    | 50-150% |
|         | 13C2-4:2FTS            | 81%    | 50-150% |
|         | 13C2-6:2FTS            | 79%    | 50-150% |
|         | 13C2-8:2FTS            | 82%    | 50-150% |
|         | 13C3-HFPO-DA           | 90%    | 50-150% |

## Method Blank Summary

Page 1 of 1

**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP88296-MB | 2Q80244.D | 1  | 11/18/21 | FS | 11/11/21  | OP88296    | S2Q1134          |

**The QC reported here applies to the following samples:**

**Method:** EPA 537M QSM5.3 B-15

FA90390-1, FA90390-2, FA90390-3, FA90390-4, FA90390-5, FA90390-6, FA90390-7, FA90390-8, FA90390-9, FA90390-10, FA90390-11, FA90390-12, FA90390-13, FA90390-14, FA90390-15, FA90390-16, FA90390-17, FA90390-18, FA90390-19, FA90390-20

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 335-67-1  | Perfluorooctanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-73-5  | Perfluorobutanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits      |
|---------|------------------------|-------------|
|         | 13C4-PFHpA             | 86% 50-150% |
|         | 13C8-PFOA              | 91% 50-150% |
|         | 13C9-PFNA              | 88% 50-150% |
|         | 13C3-PFBS              | 85% 50-150% |
|         | 13C3-PFHxS             | 86% 50-150% |
|         | 13C8-PFOS              | 75% 50-150% |

## Method Blank Summary

Page 1 of 1

**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP88477-MB | 3Q49385.D | 1  | 11/23/21 | NG | 11/22/21  | OP88477    | S3Q697           |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-21, FA90390-22, FA90390-23, FA90390-24, FA90390-25, FA90390-26, FA90390-27, FA90390-28, FA90390-29, FA90390-30

| CAS No.   | Compound                     | Result | RL     | MDL    | Units | Q |
|-----------|------------------------------|--------|--------|--------|-------|---|
| 375-85-9  | Perfluoroheptanoic acid      | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 335-67-1  | Perfluorooctanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-95-1  | Perfluorononanoic acid       | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 375-73-5  | Perfluorobutanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 355-46-4  | Perfluorohexanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |
| 1763-23-1 | Perfluorooctanesulfonic acid | ND     | 0.0040 | 0.0010 | ug/l  |   |

| CAS No. | ID Standard Recoveries | Limits |         |
|---------|------------------------|--------|---------|
|         | 13C4-PFBA              | 106%   | 50-150% |
|         | 13C5-PFPeA             | 113%   | 50-150% |
|         | 13C5-PFHxA             | 110%   | 50-150% |
|         | 13C4-PFHpA             | 112%   | 50-150% |
|         | 13C8-PFOA              | 120%   | 50-150% |
|         | 13C9-PFNA              | 121%   | 50-150% |
|         | 13C6-PFDA              | 120%   | 50-150% |
|         | 13C7-PFUnDA            | 116%   | 50-150% |
|         | 13C2-PFDoDA            | 106%   | 50-150% |
|         | 13C2-PFTeDA            | 109%   | 50-150% |
|         | 13C3-PFBS              | 110%   | 50-150% |
|         | 13C3-PFHxS             | 118%   | 50-150% |
|         | 13C8-PFOS              | 117%   | 50-150% |
|         | 13C8-FOSA              | 108%   | 50-150% |
|         | d3-MeFOSA              | 73%    | 50-150% |
|         | d3-MeFOSAA             | 125%   | 50-150% |
|         | d5-EtFOSAA             | 120%   | 50-150% |
|         | 13C2-4:2FTS            | 103%   | 50-150% |
|         | 13C2-6:2FTS            | 111%   | 50-150% |
|         | 13C2-8:2FTS            | 115%   | 50-150% |

## Blank Spike Summary

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**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP88296-BS | 2Q80243.D | 1  | 11/18/21 | FS | 11/11/21  | OP88296    | S2Q1134          |

**The QC reported here applies to the following samples:**

**Method:** EPA 537M QSM5.3 B-15

FA90390-1, FA90390-2, FA90390-3, FA90390-4, FA90390-5, FA90390-6, FA90390-7, FA90390-8, FA90390-9, FA90390-10, FA90390-11, FA90390-12, FA90390-13, FA90390-14, FA90390-15, FA90390-16, FA90390-17, FA90390-18, FA90390-19, FA90390-20

| CAS No.   | Compound                     | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|------------------------------|---------------|-------------|----------|--------|
| 375-85-9  | Perfluoroheptanoic acid      | 0.08          | 0.0827      | 103      | 72-130 |
| 335-67-1  | Perfluorooctanoic acid       | 0.08          | 0.0805      | 101      | 71-133 |
| 375-95-1  | Perfluorononanoic acid       | 0.08          | 0.0800      | 100      | 69-130 |
| 375-73-5  | Perfluorobutanesulfonic acid | 0.08          | 0.0819      | 102      | 73-130 |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.08          | 0.0862      | 108      | 68-131 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.08          | 0.0801      | 100      | 65-140 |

| CAS No. | ID Standard Recoveries | BSP | Limits  |
|---------|------------------------|-----|---------|
|         | 13C4-PFHpA             | 67% | 50-150% |
|         | 13C8-PFOA              | 71% | 50-150% |
|         | 13C9-PFNA              | 69% | 50-150% |
|         | 13C3-PFBS              | 66% | 50-150% |
|         | 13C3-PFHxS             | 65% | 50-150% |
|         | 13C8-PFOS              | 62% | 50-150% |

\* = Outside of Control Limits.

## Blank Spike Summary

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**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP88477-BS | 3Q49384.D | 1  | 11/23/21 | NG | 11/22/21  | OP88477    | S3Q697           |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-21, FA90390-22, FA90390-23, FA90390-24, FA90390-25, FA90390-26, FA90390-27, FA90390-28, FA90390-29, FA90390-30

| CAS No.   | Compound                     | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|------------------------------|---------------|-------------|----------|--------|
| 375-85-9  | Perfluoroheptanoic acid      | 0.08          | 0.0700      | 88       | 72-130 |
| 335-67-1  | Perfluorooctanoic acid       | 0.08          | 0.0682      | 85       | 71-133 |
| 375-95-1  | Perfluorononanoic acid       | 0.08          | 0.0710      | 89       | 69-130 |
| 375-73-5  | Perfluorobutanesulfonic acid | 0.08          | 0.0700      | 88       | 73-130 |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.08          | 0.0688      | 86       | 68-131 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.08          | 0.0692      | 87       | 65-140 |

| CAS No. | ID Standard Recoveries | BSP  | Limits  |
|---------|------------------------|------|---------|
|         | 13C4-PFBA              | 93%  | 50-150% |
|         | 13C5-PFPeA             | 99%  | 50-150% |
|         | 13C5-PFHxA             | 96%  | 50-150% |
|         | 13C4-PFHpA             | 98%  | 50-150% |
|         | 13C8-PFOA              | 102% | 50-150% |
|         | 13C9-PFNA              | 103% | 50-150% |
|         | 13C6-PFDA              | 102% | 50-150% |
|         | 13C7-PFUnDA            | 100% | 50-150% |
|         | 13C2-PFDoDA            | 94%  | 50-150% |
|         | 13C2-PFTeDA            | 96%  | 50-150% |
|         | 13C3-PFBS              | 99%  | 50-150% |
|         | 13C3-PFHxS             | 103% | 50-150% |
|         | 13C8-PFOS              | 103% | 50-150% |
|         | 13C8-FOSA              | 91%  | 50-150% |
|         | d3-MeFOSA              | 55%  | 50-150% |
|         | d3-MeFOSAA             | 103% | 50-150% |
|         | d5-EtFOSAA             | 106% | 50-150% |
|         | 13C2-4:2FTS            | 96%  | 50-150% |
|         | 13C2-6:2FTS            | 101% | 50-150% |
|         | 13C2-8:2FTS            | 103% | 50-150% |

\* = Outside of Control Limits.

# Matrix Spike Summary

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**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP88296-MS | 2Q80460.D | 40 | 11/23/21 | FS | 11/11/21  | OP88296    | S2Q1136          |
| FA90390-10 | 2Q80256.D | 1  | 11/18/21 | FS | 11/11/21  | OP88296    | S2Q1134          |
| FA90390-10 | 2Q80297.D | 20 | 11/19/21 | FS | 11/11/21  | OP88296    | S2Q1135          |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-1, FA90390-2, FA90390-3, FA90390-4, FA90390-5, FA90390-6, FA90390-7, FA90390-8, FA90390-9, FA90390-10, FA90390-11, FA90390-12, FA90390-13, FA90390-14, FA90390-15, FA90390-16, FA90390-17, FA90390-18, FA90390-19, FA90390-20

| CAS No.   | Compound                     | FA90390-10<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Limits |
|-----------|------------------------------|--------------------|------------|------------|---------|--------|
| 375-85-9  | Perfluoroheptanoic acid      | 0.0239             | 0.0741     | 0.0881     | 87      | 72-130 |
| 335-67-1  | Perfluorooctanoic acid       | 0.0482             | 0.0741     | 0.119      | 96      | 71-133 |
| 375-95-1  | Perfluorononanoic acid       | 0.0037 U           | 0.0741     | 0.0705     | 95      | 69-130 |
| 375-73-5  | Perfluorobutanesulfonic acid | 0.121              | 0.0741     | 0.169      | 65*     | 73-130 |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.332              | 0.0741     | 0.461      | 174* a  | 68-131 |
| 1763-23-1 | Perfluorooctanesulfonic acid | 3.08 b             | 0.0741     | 3.68       | 810* a  | 65-140 |

| CAS No. | ID Standard Recoveries | MS  | FA90390-10 | FA90390-10 | Limits  |
|---------|------------------------|-----|------------|------------|---------|
|         | 13C4-PFHpA             | 96% | 78%        | 129%       | 50-150% |
|         | 13C8-PFOA              | 99% | 84%        | 148%       | 50-150% |
|         | 13C9-PFNA              | 94% | 76%        | 147%       | 50-150% |
|         | 13C3-PFBS              | 97% | 76%        | 137%       | 50-150% |
|         | 13C3-PFHxS             | 85% | 78%        | 136%       | 50-150% |
|         | 13C8-PFOS              | 84% | 67%        | 140%       | 50-150% |

(a) Outside control limits due to high level in sample relative to spike amount.

(b) Result is from Run #2.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

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**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP88477-MS  | 3Q49404.D | 1  | 11/24/21 | NG | 11/22/21  | OP88477    | S3Q697           |
| OP88477-MSD | 3Q49405.D | 1  | 11/24/21 | NG | 11/22/21  | OP88477    | S3Q697           |
| FA90580-3   | 4Q22639.D | 1  | 11/24/21 | NG | 11/22/21  | OP88477    | S4Q310           |

The QC reported here applies to the following samples:

Method: EPA 537M QSM5.3 B-15

FA90390-21, FA90390-22, FA90390-23, FA90390-24, FA90390-25, FA90390-26, FA90390-27, FA90390-28, FA90390-29, FA90390-30

| CAS No.   | Compound                     | FA90580-3<br>ug/l | Spike<br>Q | ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|------------------------------|-------------------|------------|------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 375-85-9  | Perfluoroheptanoic acid      | 0.0679            |            | 0.16 | 0.215      | 92      | 0.16          | 0.203       | 84       | 6   | 72-130/30         |
| 335-67-1  | Perfluorooctanoic acid       | 0.0605            |            | 0.16 | 0.204      | 90      | 0.16          | 0.192       | 82       | 6   | 71-133/30         |
| 375-95-1  | Perfluorononanoic acid       | 0.0030            | J          | 0.16 | 0.148      | 91      | 0.16          | 0.141       | 86       | 5   | 69-130/30         |
| 375-73-5  | Perfluorobutanesulfonic acid | 0.194             |            | 0.16 | 0.346      | 95      | 0.16          | 0.331       | 86       | 4   | 73-130/30         |
| 355-46-4  | Perfluorohexanesulfonic acid | 0.671             |            | 0.16 | 0.855      | 115     | 0.16          | 0.810       | 87       | 5   | 68-131/30         |
| 1763-23-1 | Perfluorooctanesulfonic acid | 0.603             |            | 0.16 | 0.762      | 99      | 0.16          | 0.712       | 68       | 7   | 65-140/30         |

| CAS No. | ID Standard Recoveries | MS   | MSD  | FA90580-3 | Limits  |
|---------|------------------------|------|------|-----------|---------|
|         | 13C4-PFBA              | 104% | 100% | 71%       | 50-150% |
|         | 13C5-PFPeA             | 106% | 103% | 77%       | 50-150% |
|         | 13C5-PFHxA             | 104% | 100% | 79%       | 50-150% |
|         | 13C4-PFHpA             | 105% | 102% | 79%       | 50-150% |
|         | 13C8-PFOA              | 115% | 112% | 79%       | 50-150% |
|         | 13C9-PFNA              | 117% | 114% | 80%       | 50-150% |
|         | 13C6-PFDA              | 115% | 110% | 79%       | 50-150% |
|         | 13C7-PFUnDA            | 111% | 109% | 76%       | 50-150% |
|         | 13C2-PFDoDA            | 103% | 100% | 74%       | 50-150% |
|         | 13C2-PFTeDA            | 112% | 110% | 84%       | 50-150% |
|         | 13C3-PFBS              | 104% | 101% | 77%       | 50-150% |
|         | 13C3-PFHxS             | 112% | 109% | 79%       | 50-150% |
|         | 13C8-PFOS              | 112% | 110% | 75%       | 50-150% |
|         | 13C8-FOSA              | 111% | 107% | 73%       | 50-150% |
|         | d3-MeFOSA              | 88%  | 85%  |           | 50-150% |
|         | d3-MeFOSAA             | 118% | 116% | 68%       | 50-150% |
|         | d5-EtFOSAA             | 119% | 119% | 70%       | 50-150% |
|         | 13C2-4:2FTS            | 108% | 104% | 71%       | 50-150% |
|         | 13C2-6:2FTS            | 117% | 115% | 74%       | 50-150% |
|         | 13C2-8:2FTS            | 114% | 112% | 69%       | 50-150% |

\* = Outside of Control Limits.

## Duplicate Summary

Page 1 of 1

**Job Number:** FA90390

**Account:** TKKMAB TK&K Services

**Project:** DFSP; 5449 W Main St, Verona, NY

| Sample      | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP88296-DUP | 2Q80542.D | 20 | 11/24/21 | FS | 11/11/21  | OP88296    | S2Q1137          |
| FA90390-14  | 2Q80261.D | 1  | 11/18/21 | FS | 11/11/21  | OP88296    | S2Q1134          |
| FA90390-14  | 2Q80397.D | 40 | 11/22/21 | FS | 11/11/21  | OP88296    | S2Q1136          |

**The QC reported here applies to the following samples:**

**Method:** EPA 537M QSM5.3 B-15

FA90390-1, FA90390-2, FA90390-3, FA90390-4, FA90390-5, FA90390-6, FA90390-7, FA90390-8, FA90390-9, FA90390-10, FA90390-11, FA90390-12, FA90390-13, FA90390-14, FA90390-15, FA90390-16, FA90390-17, FA90390-18, FA90390-19, FA90390-20

|           |                              | FA90390-14 DUP    |   |        |   |     |
|-----------|------------------------------|-------------------|---|--------|---|-----|
| CAS No.   | Compound                     | ug/l              | Q | ug/l   | Q | RPD |
| 375-85-9  | Perfluoroheptanoic acid      | 0.201             |   | 0.173  |   | 15  |
| 335-67-1  | Perfluorooctanoic acid       | 0.135             |   | 0.123  |   | 9   |
| 375-95-1  | Perfluorononanoic acid       | 0.0215            |   | 0.0196 | J | 9   |
| 375-73-5  | Perfluorobutanesulfonic acid | 0.0603            |   | 0.0507 | J | 17  |
| 355-46-4  | Perfluorohexanesulfonic acid | 1.29 <sup>a</sup> |   | 1.25   |   | 3   |
| 1763-23-1 | Perfluorooctanesulfonic acid | 4.11 <sup>a</sup> |   | 3.89   |   | 6   |

| CAS No. | ID Standard Recoveries | DUP  | FA90390-14 | FA90390-14 | Limits  |
|---------|------------------------|------|------------|------------|---------|
|         | 13C4-PFHpA             | 116% | 81%        | 78%        | 50-150% |
|         | 13C8-PFOA              | 120% | 88%        | 88%        | 50-150% |
|         | 13C9-PFNA              | 121% | 80%        | 91%        | 50-150% |
|         | 13C3-PFBS              | 115% | 84%        | 83%        | 50-150% |
|         | 13C3-PFHxS             | 116% | 80%        | 90%        | 50-150% |
|         | 13C8-PFOS              | 114% | 70%        | 84%        | 50-150% |

(a) Result is from Run #2.

\* = Outside of Control Limits.