

Appendix A

Cape Fear River PFAS Mass Loading Model

1 INTRODUCTION AND OBJECTIVE

The objective of this appendix is to estimate the mass discharge from the identified PFAS transport pathways using a Cape Fear River mass loading model developed and described in the *Cape Fear River Mass Loading Calculation Protocol Version 2* (Geosyntec, 2020a) and to assess contributions by pathway. The following sections describe the transport pathways, the results from the mass loading model, and the limitations of the mass loading model. Supporting tables for the Mass Loading Model are provided in Attachment ATT1.

The one-year period of monthly sampling of the mass loading model pathways per Consent Order (CO) Paragraph 1(b) was completed in December 2021. Quarterly sample collection was initiated in January 2022 and will continue for a period of 4 years (through Q4 2025) (Geosyntec, 2020a).

1.1 Mass Loading Model Transport Pathways

The nine potential pathways representing compartments to the mass loading model were identified as potential contributors of PFAS to river PFAS concentrations (Geosyntec, 2020a). Remedies have been implemented to capture PFAS and prevent PFAS from reaching the Cape Fear River at five of the nine pathways. In addition, these remedies have had a positive effect on reducing PFAS from the remaining pathways without remedies in place (e.g., the Thermal Oxidizer reduces aerial deposition [Transport Pathway 3] which also reduces deposition on Willis Creek [Transport Pathway 2]). The pathways are described below:

- **Transport Pathway 1:** Upstream Cape Fear River and Groundwater – This pathway is comprised of contributions from non-Chemours related PFAS sources on the Cape Fear River and tributaries upstream of the Site, and upstream offsite groundwater with PFAS present from aerial deposition.
- **Transport Pathway 2:** Willis Creek – Groundwater and stormwater discharge and aerial deposition to Willis Creek and then to the Cape Fear River.
- **Transport Pathway 3 (Remedy: Thermal Oxidizer and Carbon Bed Air Emission Treatment):** Direct aerial deposition of PFAS on the Cape Fear River (see Attachment ATT2 for further details).
- **Transport Pathway 4 (Remedy: Stormwater Capture and Treatment in the Monomers IXM Manufacturing Area):** Outfall 002 – Comprised of (i) water drawn from the Cape Fear River and used as non-contact cooling water, (ii) treated non-Chemours process water, (iii) Site stormwater, (iv) steam condensate, and (v) power neutralization discharge, which are then discharged through Outfall 002.
- **Transport Pathway 5 (Remedy: Barrier Wall and Groundwater Extraction Treatment):** Onsite Groundwater – Direct upwelling of onsite groundwater to the Cape Fear River from the Black Creek Aquifer. Additional details are provided in Attachment ATT3.

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- **Transport Pathway 6 (Remedy: Seep Flow-Through Cells):** Seeps – Onsite groundwater seeps A, B, C and D and the offsite Lock and Dam Seep originating above the Cape Fear River water level on the bluff face from the facility that then discharge into the Cape Fear River.
- **Transport Pathway 7 (Remedy: Outfall 003 Stream Capture and Treatment System):** Outfall 003 Stream (previously referred to as Old Outfall 002) – Groundwater discharge and stormwater runoff to the Outfall 003 Stream that flows into the Cape Fear River.
- **Transport Pathway 8:** Adjacent and Downstream Offsite Groundwater – Offsite groundwater adjacent and downstream of the Site upwelling to the Cape Fear River.
- **Transport Pathway 9:** Georgia Branch Creek – Groundwater, stormwater discharge and aerial deposition to Georgia Branch Creek and then to the Cape Fear River.

For the Q1 2024 mass loading model assessments, data sources used as model inputs for each potential pathway are described in Table A1.

2 SAMPLING ACTIVITIES AND LABORATORY ANALYSIS

The mass loading model sampling program for this reporting period consisted of collecting concentration and flow data from the various PFAS transport pathways during the reporting period (January 2023). A total of 39 water samples were collected, which includes surface water (seep, creeks, Outfall 003 Stream, Outfall 002, and Cape Fear River) and groundwater. The sample collection and flow measurement methods of each pathway are outlined in Table A2. The field forms are provided in Appendix C. Details of the sampling methods and flow measurement methods can be found in *Cape Fear River Mass Loading Calculation Protocol Version 2* (Geosyntec, 2020a).

2.1 Flow Measurements

The flow rates measured for the seep and surface water events are reported in Table A2. Details on the flow calculations for each model transport pathway along with measurement methods at each flow gauging location are provided in Attachment Tables ATT1-1 to ATT1-10.

2.2 Surface Water Sample Collection

The seep water, surface water, and river water samples were collected from January 24 to 26, 2024. The three downstream samples along the Cape Fear River (Bladen Bluffs, Tar Heel, and Kings Bluff) were sampled from January 24 to 25, 2024. A total of 15 primary samples and 1 duplicate sample were collected. Due to high water levels, three locations were offset upstream at an alternate location as close as possible to the mouth of the surface water body:

- Willis Creek: approximately 0.28 miles upstream
- Georgia Branch Creek: 1.1 miles upstream
- Outfall 003 stream: 0.059 miles upstream

The Lock and Dam Seep was sampled this quarter, as shown in the photo below:



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However, the Lock and Dam North was not sampled during this sampling event because the seep was under water on January 24, 2024, as shown in the photo below:



Field parameters recorded for these samples are provided in Table A2.

2.3 Water Levels and Groundwater Sample Collection

One synoptic water level survey of the onsite groundwater monitoring well network was completed on January 11, 2024 (Table A3). From January 15 to February 7, 2024, groundwater samples were collected from 21 locations, including 18 of the 20 monitoring wells outlined in CO Paragraph 16 (Table A4). This list of groundwater wells is derived from the Corrective Action Plan (CAP) (Geosyntec, 2019). The groundwater field parameters are provided in Table A4.

2.4 Laboratory Analyses

Samples were sent to Eurofins Scientific (West Sacramento, CA) and were analyzed for Table 3+ and other PFAS compounds using Method 537 Mod Max (56 compounds which includes PFPrA).

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3 PFAS ANALYTICAL RESULTS

The analytical results from samples during the Q1 2024 surface water and groundwater sampling events are presented in Tables A5 and A6, respectively. During this sampling event, all samples were within the acceptable temperature requirements for preservation during storage and shipping (i.e., between not frozen to 6°C with a target of 4°C) as outlined in the Chemours PFAS Program QAPP (AECOM, 2018). The laboratory reports and Data Verification Module (DVM) reports are provided in Appendix D of the main report. The analytical data have been reviewed and validated. The duplicate samples have also been compared to the primary samples.

3.1 Data Validation

Laboratory analytical data for the samples collected during the Q1 2024 reporting period were reviewed using the Data Verification Module (DVM) within the Locus™ Environmental Information Management (EIM) system, a commercial data management software program. Following the DVM process, a manual review of the data was conducted. The DVM and the manual review results were combined in a DVM narrative report for each set of sample results which is consistent with Stage 2b of the *USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (USEPA, 2009). The DVM narrative report summarizes which samples were qualified (if any), the specific reasons for the qualification, and any potential bias in reported results. The data usability, in view of the project's data quality objectives (DQOs), was assessed, and the data were entered into the EIM system.

The data were evaluated by the DVM against the following data usability checks:

- Hold time criteria
- Field and laboratory blank contamination
- Completeness of QA/QC samples
- Matrix spike/matrix spike duplicate recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample/laboratory control sample duplicate recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- RPD between field duplicate sample pairs

A manual review of the data was also conducted, which included visual inspection of sample chromatograms for appropriate integration and retention time, verification that detections in field or equipment blanks have been applied to all applicable samples, and review of temperature requirements for sample preservation during storage and shipping. Based on the results of the DVM plus manual review, the following data evaluation qualifiers were applied to the analytical results as required:

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- J - Analyte present, reported value may not be accurate or precise.
- UJ - Analyte not present above the reporting limit, reporting limit may not be accurate or precise.
- B - Analyte present in a blank sample, reported value may have a high bias.

The DVM narrative reports are provided in Appendix D. Overall, the DQOs were met for accuracy and precision. During this sampling event, all samples were within the acceptable temperature requirements for preservation during storage and shipping (i.e., between not frozen to 6°C with a target of 4°C) as outlined in the Chemours PFAS Program QAPP (AECOM, 2018). The data collected are believed to be complete, representative, and comparable, with the exception of R-PSDA, Hydrolyzed PSDA, and R-EVE; matrix interference studies have shown that quantitation these compounds is inaccurate due to interferences by the sample matrix (Geosyntec, 2020b). Results for these three analytes are J-qualified as estimated.

3.1.1. Correction of PFPrA Concentration

On April 23, 2024, Eurofins-Sacramento informed Chemours via email that a calculation error had been incorporated into the preparation of calibration standards for perfluoropropanoic acid (PFPrA) under the laboratory's 537 Mod Max methodology. The error resulted in a 36% low bias in PFPrA concentrations. The error affected Chemours samples collected on behalf of the Fayetteville Works Site between June 2023 and April 2024. Chemours informed NCDEQ of the PFPrA calculation error via telephone on May 15, 2024, and provided NCDEQ with Eurofins-Sacramento's memo describing their root cause analysis of the PFPrA calculation error on May 22, 2024.

PFPrA results that were calculated incorrectly have been corrected by Eurofins-Sacramento and provided to Chemours. These results fall into two categories: 1) results that were corrected before being reported to NCDEQ, and 2) results that were reported to NCDEQ before being corrected. The PFPrA results for Q1 2024 provided in this report fall into category 1). They are being reported here for the first time. PFPrA results from July 2023 to December 2023 that have been provided in previous reports in this sampling program fall into category 2). Appendix E of this report provides a table of the results in category 2) with corrected PFPrA concentration values.

Additional detail is provided in a letter submitted to NCDEQ by Chemours on June 18, 2024, which is provided in Appendix F.

3.2 *Surface Water PFAS Analytical Results*

For the surface and seep water samples, two equipment blanks were collected on January 25, 2024. PFAS were not detected above associated reporting limits in these field blanks. Two field duplicates were collected at the Lock-Dam Seep location on January 24, 2024. PFAS results for the primary (CAP1Q24-LOCK-DAM-SEEP-012424) and duplicate samples (CAP1Q24-LOCK-DAM-SEEP-012424-D) had relative percent differences of less than 30% for the reported compounds, except for PFO4DA.

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Analytical results for the seep, surface, and river water samples are summarized in Table A5 (Table 3+) and Attachment Table ATT1-11 (Mod 537). Figure A1 shows the Total Table 3+ (17 compounds) concentrations reported for samples collected in Q1 2024 that corresponds to the mass loading model transport pathways. Figure A2 and A3 show the Total Table 3+ (17 compounds) concentrations and HFPO-DA concentrations at upstream and downstream locations along the Cape Fear River.

Among the collected river samples, Total Table 3+ (17 compounds) concentrations ranged from non-detect below associated reporting limits (upstream sample at CFR MILE 76 on January 24, 2024) to 5.2 ng/L (downstream sample at CFR KINGS on January 25, 2024).

For the creeks, the Total Table 3+ (17 compounds) concentrations were 1,400 ng/L and 1,500 ng/L at Willis Creek and Georgia Branch, respectively. These concentrations are within the range of concentrations observed during previous events (Geosyntec: 2020b,c,d; 2021a,b,c,d; 2022a,b,c,d; 2023a,b,c,d; 2024a).

Among the Seeps and Outfall 002 Stream, Seep D effluent had the lowest Total Table 3+ (17 compounds) concentrations (25 ng/L), while Lock-Dam Seep had the highest Total Table 3+ (17 compounds) concentration (110,000 ng/L). The analytical results for the Seeps influent are not included in this report but are provided in *CFR Long-Term Remedy Performance Monitoring Report #5* (Geosyntec 2024b).

Figure A3 shows the HFPO-DA concentrations in the four near-site/downstream river sampling locations. HFPO-DA concentrations were either below 10 ng/L or non-detect (i.e. below the associated reporting limits) (CFR BLADEN, CFR MILE 76, and CFR TARHEEL on January 24, 2024 and CFR KINGS and CFR TARHEEL on January 25, 2024).

3.3 Groundwater PFAS Analytical Results

For the groundwater samples, the following observations were noted for the QA/QC samples:

- Four equipment blank samples were collected during the sampling event. No PFAS were detected above the associated reporting limits in any of the equipment blank samples.
- Two field duplicates were collected at the PIW-7D location on January 15, 2024, and the PW-09 location on January 23, 2024. PFAS results for the primary (CAP1Q24-PIW-7D-011524 and CAP1Q24-PW-09-012324 and duplicate sample (CAP1Q24-PIW-7D-011524-D and CAP1Q24-PW-09-012324-D) had relative percent differences of less than 30% for the reported compounds.

Individual PFAS and Total PFAS concentrations for the groundwater samples collected in Q1 2024 are summarized in Tables A6 (Table 3+), Attachment Table ATT1-12 (Mod 537), and Figure A4. Total Table 3+ (17 compounds) concentrations ranged from non-detect below the associated reporting limits (PW-09) to 340,000 ng/L (LTW-05). In general, the next highest concentrations

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were observed in the LTW, PZ, and PIW wells near the mouths of the seeps adjacent to the river (Figure A4).

On an aquifer basis, lower individual and Total Table 3+ (17 compounds) concentrations are observed in wells screened in the Surficial Aquifer. The results from the Q1 2024 monitoring are consistent with trends observed at these wells in previous monitoring events (Geosyntec: 2020b,c,d; 2021a,b,c,d; 2022a,b,c,d; 2023a,b,c,d; 2024a).

3.4 Groundwater Elevations

Groundwater elevations were calculated for onsite and offsite wells screened in the Perched Zone, Surficial Aquifer, and Black Creek Aquifer from the synoptic water level measurement survey performed in January 2024 (Table A4). Groundwater elevations from these synoptic water levels are presented on the Perched Zone, Surficial Aquifer, and Black Creek Aquifer maps (Figures A5-1, A5-2, and A5-3, respectively).

4 MASS LOADING MODEL ASSESSMENT

The Total PFAS mass discharge per pathway to the Cape Fear River is summarized in Table A7. These mass discharge values from the mass loading model assessment are considered as a ‘snapshot’ in time. Analyte-specific mass discharges estimated from the Mass Loading Model are provided in Attachment ATT1.

4.1 Model-Estimated PFAS Mass Discharge

The model-estimated Total Table 3+ (17 compounds) mass discharge from the potential transport pathways during Q1 2024 is 1.33 mg/s (Attachment able ATT1-13) and represents the mass discharge estimated downgradient of the remedies (i.e., after the water passes through the remedies, “after remedies”). Further, this quarter’s mass discharge value of 1.33 mg/s continues to be less than the historical “after remedies” mass discharge estimates from mass loading model events prior to the operation of the groundwater extraction system (historical “after remedies” prior to operation of groundwater extraction system ranged from 2.3 to 24 mg/s) (Geosyntec: 2019b; 2020b,c,d; 2021a; 2021b; 2021c; 2021d; 2021e; 2022b; 2022c; 2022d; 2023a).

4.2 Comparison of Before Remedies and Current PFAS Mass Discharge

This section compares Q1 2024 mass discharge values downgradient of the remedies (i.e., after the water passes through the remedies, “after remedies”) to mass discharge values from past quarters upgradient of the remedies (i.e., before the water passes through the remedies, “before remedies”, or where no remedies were implemented) (Geosyntec: 2019b; 2020b; 2020c; 2020d; 2021a; 2021b; 2021c; 2021d; 2021e; 2022b; 2022c; 2022d; 2023a). The in-text table and figure below summarize the historical before remedies Total Table 3+ (17 compounds) mass discharge from Q3 2020 to Q4 2022 and the after remedies mass discharge for this quarter. The pathways with remedies (Seeps, Outfall 003 Stream, Outfall 002, and onsite groundwater) have substantially lower mass discharges, i.e., lower contributions to total mass discharge to the river, than the historical before remedies mass discharges. The remaining pathways have mass discharges that are within the range of previous values.

The in-text table and figure indicate three major findings:

1. The Q1 2024 mass discharges to the Cape Fear River are either equivalent to historical levels or significantly lower. Note that the mass discharge of 0.79 mg/s for Georgia Branch Creek was at the higher end of the range of before remedies mass discharges. However, the Total Table 3+ (17 compounds) concentration of 1,500 was within the range of previous events (1,300 to 3,100 ng/L), and it was the higher flow volume (11.97 MG) that resulted in the higher mass discharge estimate. This estimate is also similar to a previous Q1 event in January 2021, where the concentration and the flow were 1,500 ng/L and 11.84 MG, respectively, resulting in a mass discharge of 0.78 mg/s.

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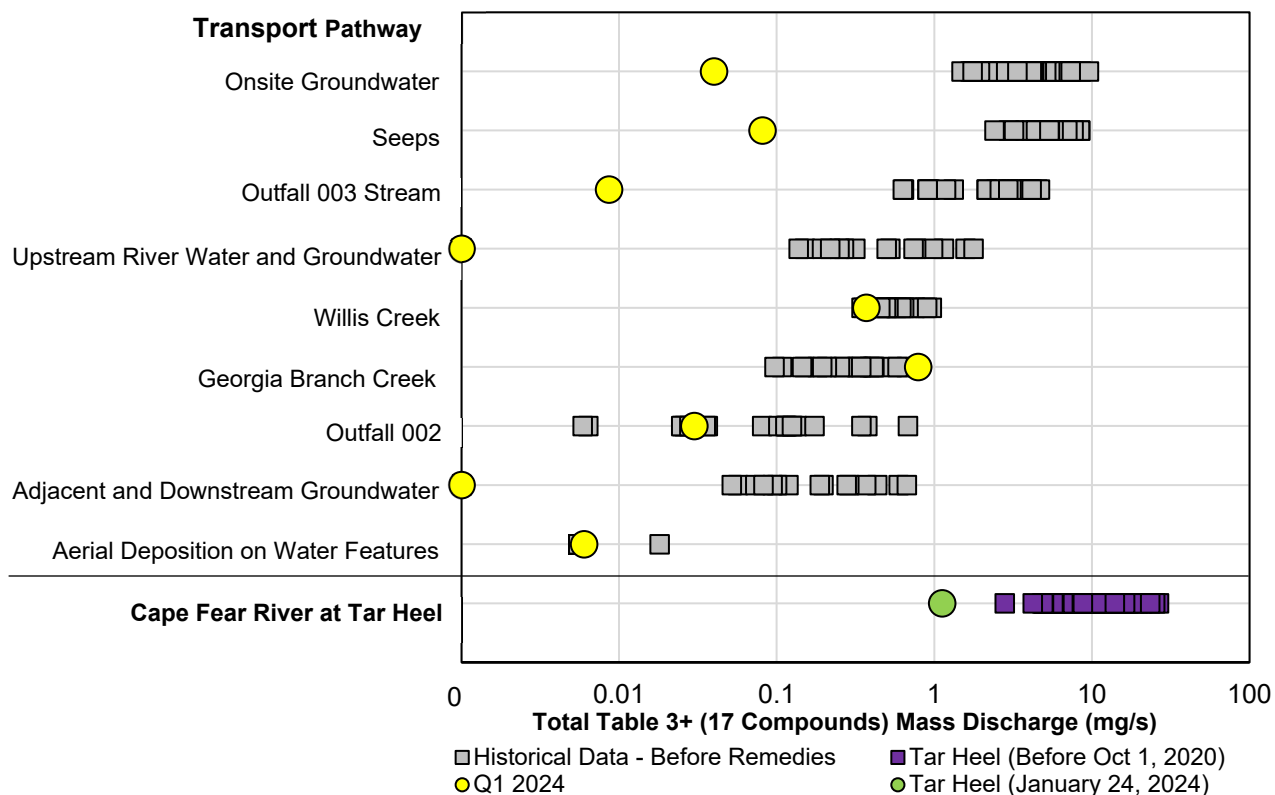
2. The pathways with remedies (Seeps, Outfall 003 Stream and Onsite Groundwater) all show a significant mass discharge decrease in Q1 2024 compared to historical, pre-remediation ranges.
3. The total mass discharge to the Cape Fear River from the Site is much lower in Q1 2024 compared to historical before remedies mass discharges.

Model Transport Pathway	Historical Before Remedies Total Table 3+ (17 Compounds) Mass Discharge (mg/s) ¹			Q1 2024 Total Table 3+ (17 Compounds) Mass Discharge (mg/s)
	Min	Median	Max	
Aerial Deposition	0.01	0.01	0.02	0.01
Upstream River and Groundwater	0	0.27	4.5	0
Willis Creek	0.31	0.57	0.96	0.37
Seeps	3.0	5.4	8.4	0.08
Onsite Groundwater	1.5	3.6	9.6	0.04
Outfall 002	0.006	0.10	0.68	0.03
Georgia Branch Creek	0.10	0.32	0.78	0.79
Outfall 003 Stream	0.63	2.5	4.7	0.01
Offsite Groundwater	0	0.10	1.7	0
Total²	6.7	14	24	1.33

1 – Historical Before remedies mass discharge values taken from mass loading model assessments conducted between April 2020 to November 2022, which pre-date the installation of the groundwater extraction and barrier wall remedy which significantly altered the hydrologic conditions at site.

2 – Total values for historical before remedies mass discharge come from individual mass loading model assessments and therefore do not equal the sum of the values above.

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4.3 Variability in Input Parameters

The mass loading model assessments provide PFAS mass discharge estimates for a ‘snapshot’ in time. While controlling for temporal variability, the model-based mass discharge estimates contain some level of uncertainty due to the inherent variability, and measurement error in the input parameters (e.g., flow and concentrations).

5 SUMMARY

The objective of the mass loading model assessments is to provide PFAS mass discharge estimates for a ‘snapshot’ in time. In Q1 2024, 39 water samples collected from the PFAS transport pathways (seeps, creeks, Outfall 003 Stream, Outfall 002, groundwater) were used to estimate the mass discharge to the Cape Fear River. The model-estimated Total Table 3+ (17 compounds) mass discharge from the potential transport pathways during Q1 2024 is 1.33 mg/s. The mass discharge continues to be less than the after remedies mass discharge estimates from mass loading model events prior to the operation of the groundwater extraction system. This quarter, the mass discharge from Georgia Branch Creek was within the higher end of the range of previous events because the flow volume was higher while the concentrations remained within the range of previous quarters. The implementation of remedies (Outfall 003 treatment system, Seeps FTCs, and the groundwater extraction and barrier wall remedy) show significant mass discharge decreases in Q1 2024 compared to historical, pre-remediation ranges. The pathways with remedies have substantially lower mass discharges than the historical before remedies mass discharges. While the remaining pathways have mass discharges that are within the range of historical discharge values, the mass discharge at Georgia Branch Creek was at the higher end of the range of historical discharge values because of the higher flow volume and not the concentration.

Quarterly sample collection and evaluation will continue through Q4 2025. The data will continue to be incorporated into the mass loading model to estimate mass discharge to the Cape Fear River, and sensitivity assessments on the model will continue to be evaluated annually.

REFERENCES

- AECOM, 2018. Poly and Perfluoroalkyl Substance Quality Assurance Project Plan for the Chemours Corporate Remediation Group. August 2018.
- Geosyntec. 2019. On and Offsite Assessment. Chemours Fayetteville Works. September 30, 2019.
- Geosyntec, 2020a. Cape Fear River Mass Loading Calculation Protocol Version 2, Chemours Fayetteville Works. November 18, 2020.
- Geosyntec. 2020b. Matrix Interference During Analysis of Table 3+ Compounds. Chemours Fayetteville Works. June 30, 2020.
- Geosyntec. 2020c. Cape Fear River Table 3+ PFAS Mass Loading Assessment – First Quarter 2020 Report, Chemours Fayetteville Works. July 31, 2020.
- Geosyntec. 2020d. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2020 Report, Chemours Fayetteville Works. September 30, 2020.
- Geosyntec. 2020e. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2020 Report, Chemours Fayetteville Works. December 23, 2020.
- Geosyntec, 2021a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2020 Report, Chemours Fayetteville Works. March 31, 2021.
- Geosyntec, 2021b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2021 Report, Chemours Fayetteville Works. June 30, 2021.
- Geosyntec 2021c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2021 Report, Chemours Fayetteville Works. September 30, 2021.
- Geosyntec 2021d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2021 Report, Chemours Fayetteville Works. December 23, 2021.
- Geosyntec 2022a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2021 Report, Chemours Fayetteville Works. March 31, 2022.
- Geosyntec 2022b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2022 Report, Chemours Fayetteville Works. June 30, 2022.
- Geosyntec 2022c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2022 Report, Chemours Fayetteville Works. September 30, 2022.
- Geosyntec 2022d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2022 Report, Chemours Fayetteville Works. December 28, 2022.
- Geosyntec 2023a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2022 Report, Chemours Fayetteville Works. March 31, 2023.

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Geosyntec 2023b. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2023 Report, Chemours Fayetteville Works. June 29, 2023.

Geosyntec 2023c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2023 Report, Chemours Fayetteville Works. September 29, 2023.

Geosyntec 2023d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2023 Report, Chemours Fayetteville Works. December 22, 2023.

Geosyntec. 2024a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2023 Report, Chemours Fayetteville Works. March 28, 2024.

Geosyntec. 2024b. CFR Long-Term Remedy Performance Monitoring Report #5. Chemours Fayetteville Works. June 27, 2024.

List of Attachments:

ATT1: Supplemental Tables to the Mass Loading Model

ATT2: Supporting Calculations – Direct Aerial Deposition on Cape Fear River

ATT3: Supporting Calculations – Onsite Groundwater Pathway

TABLE A1
PFAS MASS LOADING MODEL POTENTIAL PATHWAYS
Chemours Fayetteville Works, North Carolina

Transport Pathway Number	Potential PFAS Transport Pathway	Analytical Data Source for Mass Loading Model ¹	Flow Data Source for Mass Loading Model ¹
1	Upstream River and Groundwater	Measured from Cape Fear River Mile 76 samples collected in January 2024 as reported in Table A5.	Measured flow rates from USGS gauging station at W.O. Huske Dam during January 2024 volumetrically adjusted for flow pathways between River Mile 76 and W.O. Huske Dam. ²
2	Willis Creek	Measured from Willis Creek samples collected in January 2024 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during January 2024 as reported in Attachment ATT1.
3	Aerial Deposition on River	Estimated from air deposition modeling ³ .	Estimated from air deposition modeling ³ .
4	Outfall 002	Measured from Outfall 002 samples collected in January 2024 as reported in Table A5.	Measured daily Outfall 002 flow rates recorded in Facility discharge monitoring reports, summarized in Attachment ATT1.
5	Onsite Groundwater	Measured from monitoring well samples collected in January 2024 as reported in Table A6.	Estimated as the sum of the mass flux from the Black Creek Aquifer calculated from a transect along the Cape Fear River. Further details and supporting calculations provided in Attachment ATT2.
6	Seeps	Measured from Seeps A, B, C, D, and Lock and Dam Seep samples collected in January 2024 as reported in Table A5.	Measured flow rates through bucket and time for Lock and Dam Seep during January 2024 as reported in Appendix C. Flow-Through Cell flow data for Seeps A, B, C and D were used as the flumes were decommissioned following Q2 2022 CAP sampling event. No flow was observed at Seeps A, B, and D.
7	Outfall 003 Stream	Measured from Outfall 003 Stream samples collected in January 2024 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during January 2024 as reported in Attachment ATT1.
8	Adjacent and Downstream Groundwater	Estimated using a scaling factor applied to upstream mass discharge. Refer to <i>Cape Fear River PFAS Mass Loading Calculation Protocol Version 2</i> (Geosyntec, 2020a) for details.	Estimated using a scaling factor applied to upstream mass discharge. Refer to <i>Cape Fear River PFAS Mass Loading Calculation Protocol Version 2</i> (Geosyntec, 2020a) for details.
9	Georgia Branch Creek	Measured from Georgia Branch Creek samples collected in January 2024 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during January 2024 as reported in Attachment ATT1.

Notes:

- 1 - Flow and concentration data are multiplied together to estimate the PFAS mass discharge in the Cape Fear River originating from each pathway.
- 2 - Cape Fear River flow rates measured at USGS gauging station #02105500 located at William O Huske Lock & Dam accessed from <https://waterdata.usgs.gov>.
- 3 - ERM, 2018. Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

TABLE A2
SURFACE WATER SAMPLE SUMMARY, FIELD PARAMETERS, AND FLOW MEASUREMENTS - Q1 2024
Chemours Fayetteville Works, North Carolina

Pathway / Location	Location ID	Location Description	Sample ID	QA/QC	Sample Collection and Field Parameters									Flow Measurement Method ¹	
					Sample Date and Time	Sample Collection Method	Hours Composited ²	pH (S.U.)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Specific Conductivity (µS/cm)	Temperature (°C)	Flow Measurement Method	Instantaneous Flow Rate (ft ³ /s) ³
Upstream River Water and Groundwater	CFR-RM-76	Cape Fear River Mile 76	CAP1Q24-CFR-RM76-012424	--	1/24/2024 9:15	Grab	0	7.49	6.9	110.6	33.2	628.6	8.93	USGS Data ⁴	10,844
Willis Creek	WC-6	Upstream of mouth of willis creek	CAP1Q24-WC-6-24-012524	--	1/25/2024 7:00	Composite	24	5.54	9.59	30.4	4.52	196.99	10.31	Marsh-McBirney Flow	9.3
Intake River Water at Facility	RIVER WATER INTAKE2	Water Drawn Through the Intake Sampled at the Power Area at the Site	RIVER-WATER-INTAKE2-24012524	--	1/25/2024 7:06	Composite	24	7.87	9.5	54	34.4	184.05	13.92	Facility DMRs	17
Outfall 002	OUTFALL-002	Upstream of Outfall 002 in open channel	CAP1Q24-OUTFALL-002-24012524	--	1/25/2024 7:24	Composite	24	7.8	9.43	78.5	29.7	178.97	14.49	Facility DMRs	25
Seep A	SEEP-A	Effluent Basin of Seep A FTC	CAP1Q24-SEEP-A-EFF-24012524	--	1/25/2024 7:12	Composite	24	7.38	9.1	99.5	3.46	387.12	9.1	FTC ⁵	0.078
Seep B	SEEP-B	Effluent Basin of Seep B FTC	CAP1Q24-SEEP-B-EFF-24012624	--	1/26/2024 8:47	Composite	24	8.22	8.59	94.8	40.8	159.8	12.43	FTC ⁵	0.031
Seep C	SEEP-C	Effluent Basin of Seep C FTC	CAP1Q24-SEEP-C-EFF-24012524	--	1/25/2024 7:24	Composite	24	8.06	6.53	104	9.01	268.34	13.73	FTC ⁵	0.050
Seep D	SEEP-D	Effluent Basin of Seep D FTC	CAP1Q24-SEEP-D-EFF-24012624	--	1/26/2024 8:30	Composite	24	8.21	8.47	114.8	10.8	135.68	10.91	FTC ⁵	0.010
Lock and Dam Seep	LOCK-DAM-SEEP	Southside of the boat ramp at the Lock and Dam Seep	CAP1Q24-LOCK-DAM-SEEP012424	DUP/MS/MSD	1/24/2024 12:15	Grab	0	6.66	6.51	203	21.6	472.13	16.1	Bottle and Stopwatch	0.026
			CAP1Q24-LOCK-DAM-SEEP012424-D	Field Duplicate	1/24/2024 12:15	Grab	0	6.66	6.51	203	21.6	472.13	16.1	Bottle and Stopwatch	0.026
Lock and Dam North ³	LOCK-DAM-NORTH	Northside of the boat ramp at the Lock and Dam Seep	CAP1Q24-LOCK-DAMNORTH-012424	--	--	--	--	--	--	--	--	--	--	Bottle and Stopwatch	--
Outfall 003 Stream	OLDOF-1B	Mouth of Outfall 003 stream	CAP1Q24-OLDOF-1B-24012524	--	1/25/2024 7:36	Composite	24	8.08	8.43	4.9	5.21	290.47	17.59	Facility DMRs	0.1
Georgia Branch Creek	GBC-5	Upstream of mouth of Georgia branch creek	CAP1Q24-GBC-5-012424	--	1/24/2024 12:10	Grab	0	6.29	9.73	78.5	2.68	134.88	18.82	Marsh-McBirney Flow	19
Tar Heel Ferry Road Bridge	CFR-TARHEEL	Cape Fear River at Tar Heel Ferry Road Bridge	CAP1Q24-CFR-TARHEEL-24012524	--	1/25/2024 10:24	Composite	24	7.54	9.8	118.8	39.2	126.47	14.81	USGS Data ⁶	10,164
			CAP1Q24-CFR-TARHEEL012424	--	1/24/2024 14:10	Grab	0	7.23	10.86	79.7	64	153.74	13.34	USGS Data ⁶	10,900
Bladen Bluffs	CFR-BLADEN	Cape Fear River at Bladen Bluffs	CAP1Q24-CFRBLADEN-012424	--	1/24/2024 13:50	Grab	0	7.18	11.37	53.3	35.4	238.05	14.37	USGS Data ⁷	10,800
Kings Bluffs	CFR-KINGS	Cape Fear River at Kings Bluff Raw Water	CAP1Q24-CFRKINGS-012524	--	1/25/2024 12:07	Grab	0	7.97	10.52	46.5	38.2	130.17	15.3	USGS Data ⁸	11,200

Notes:

- 1 - Flow measurement methods are described in Table A1. Supplemented flow measurement data are included in Attachment ATT1.
- 2 - Samples with a compositing duration of zero (0) hours are grab samples.
- 3 - No seep was found at Lock and Dam North. No sample was taken.
- 4 - The volumetric flow rate for upstream river water and groundwater was estimated by subtracting inflows from Willis Creek, upwelling groundwater, seeps to the river, and Outfall 002 and by adding the river water intake from Chemours to the flow rate measurement from the W.O. Huske Dam.
- 5 - FTCs were used as the flumes installed at the Seeps A, B, C, and D were decommissioned following Q2 2022 sampling event.
- 6 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam used to estimate flow rate at Tar Heel Ferry Road Bridge during grab sample collection.
- 7 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam used to estimate flow rate at Bladen Bluff during sample collection.
- 8 - Flow rate measured at USGS gauging station #02105769 located at Lock #1 near Kelly used to estimate flow rate at Kings Bluff during sample collection.

-- - not measured/not sampled
 DMRs - Discharge Monitoring Reports
 FTC - Flow-through cell
 USGS - United States Geological Survey
 °C - degrees Celsius
 mg/L - milligrams per liter
 µS/cm - microsiemens per centimeter
 mV - millivolts
 NTU - Nephelometric Turbidity Units
 ORP - oxidation reduction potential
 S.U. - Standard Units

**TABLE A3
GROUNDWATER ELEVATIONS - Q1 2024
Chemours Fayetteville Works, North Carolina**

Area ¹	Water Bearing Unit ²	Well ID	Gauging Date	Northing (ft, SPCS NAD83) ³	Easting (ft, SPCS NAD83) ³	Screened Interval (ft)	TOC Elevation (ft, NAVD 88) ⁴	Depth to Water (ft from TOC)	Water Level (ft, NAVD88) ⁴
Onsite	Perched Zone	PZ-31	01/11/24	396428.73	2049594.36	14-19	148.00	NM	NM
Onsite	Perched Zone	PZ-32	01/11/24	396418.47	2049713.79	13-18	148.47	NM	NM
Onsite	Perched Zone	PZ-33	01/11/24	396308.92	2049707.66	12.5-17.5	146.72	NM	NM
Onsite	Perched Zone	PZ-34	01/11/24	396292.05	2049595.04	13.5-18.5	147.70	NM	NM
Onsite	Perched Zone	PZ-35	01/11/24	398232.64	2050020.49	13-18	150.43	13.79	136.64
Onsite	Perched Zone	PZ-36	01/11/24	396086.17	2051331.44	5-8.5	135.20	NM	NM
Onsite	Perched Zone	PZ-37	01/11/24	396042.40	2051050.05	5-8	135.56	NM	NM
Onsite	Perched Zone	PZ-38	01/11/24	395970.01	2050569.66	5-9	137.34	NM	NM
Onsite	Perched Zone	PZ-39	01/11/24	395921.87	2050238.18	5-10	137.93	NM	NM
Onsite	Perched Zone	PZ-40	01/11/24	395943.02	2050031.90	5-9	138.51	NM	NM
Onsite	Perched Zone	PZ-41	01/11/24	395979.29	2050048.97	5-8.5	138.13	NM	NM
Onsite	Perched Zone	PZ-42	01/11/24	395961.73	2050230.23	3-7	138.17	NM	NM
Onsite	Perched Zone	PZ-43	01/11/24	396011.61	2050567.89	5-9	137.06	NM	NM
Onsite	Perched Zone	PZ-44	01/11/24	396082.75	2051045.25	5-7	136.26	NM	NM
Onsite	Perched Zone	PZ-45	01/11/24	396124.41	2051323.03	2-4	135.69	NM	NM
Onsite	Surficial Aquifer	PZ-L	01/11/24	396745.80	2048684.01	13-28	147.86	DRY	DRY
Offsite	Black Creek Aquifer	ROBESON-1D	01/11/24	381416.28	2020158.93	42.75-52.75	156.36	13.02	143.34
Offsite	Surficial Aquifer	ROBESON-1S	01/11/24	381408.19	2020156.86	17-27	156.66	11.51	145.15
Onsite	Surficial Aquifer	SMW-01	01/11/24	395297.97	2043688.29	5.0-15.0	150.58	13.61	136.97
Onsite	Perched Zone	SMW-02	01/11/24	399982.23	2050655.91	5.0-20.0	144.59	DRY	DRY
Onsite	Surficial Aquifer	SMW-02B	01/11/24	399983.75	2050654.77	43.0-53.0	147.93	DRY	DRY
Onsite	Perched Zone	SMW-03	01/11/24	399779.32	2049445.32	10.0-20.0	151.09	NM	NM
Onsite	Black Creek Aquifer	SMW-03B	01/11/24	399785.75	2049421.54	72-82	150.43	65.01	85.42
Onsite	Perched Zone	SMW-04A	01/11/24	399668.71	2048387.57	19.5-34.5	148.09	DRY	DRY
Onsite	Surficial Aquifer	SMW-04B	01/11/24	399666.21	2048392.37	43.0-53.0	147.65	51.88	95.77
Onsite	Perched Zone	SMW-05	01/11/24	399334.07	2048557.33	10.0-20.0	148.10	NM	NM
Onsite	Surficial Aquifer	SMW-05PR	01/11/24	399391.46	2049235.07	45.0-60.0	149.66	50.43	99.23
Onsite	Perched Zone	SMW-06	01/11/24	399172.35	2048759.48	12.0-22.0	150.97	NM	NM
Onsite	Surficial Aquifer	SMW-06B	01/11/24	399144.74	2048764.94	58-68	150.32	53.78	96.54
Onsite	Perched Zone	SMW-07	01/11/24	398931.13	2048611.74	13.0-23.0	146.79	19.35	127.44
Onsite	Perched Zone	SMW-08	01/11/24	399064.97	2048468.78	21.0-31.0	151.02	NM	NM
Onsite	Surficial Aquifer	SMW-08B	01/11/24	399058.33	2048478.84	58-68	148.81	46.96	101.85
Onsite	Surficial Aquifer	SMW-09	01/11/24	401076.89	2050017.41	52-62	141.43	62.05	79.38
Onsite	Black Creek Aquifer	SMW-10	01/11/24	402307.31	2047923.84	39-49	76.26	29.47	46.79
Onsite	Surficial Aquifer	SMW-11	01/11/24	401996.15	2048975.38	13-23	71.95	16.02	55.93
Onsite	Black Creek Aquifer	SMW-12	01/11/24	401314.20	2051007.22	88-98	118.22	89.25	28.97

Notes:

- 1 - Area - refers to location of well within site property boundary ("Onsite") and outside property boundary ("Offsite").
 - 2 - Water Bearing Unit - refers to primary aquifer unit well screen is estimated to be screened within.
 - 3 - Northing and Easting provided in North Carolina State Plane System (zone 3200), North American Datum 1983.
 - 4 - Vertical datum is North American Vertical Datum of 1988.
 - 5 - OW-30, OW-33, and OW-40 are within the USACE property but are labeled as onsite wells.
- DRY - Well was dry at time of monitoring event.
ft - feet
NAVD88 - North American Vertical Datum of 1988
NM - Not measured, well inaccessible during monitoring event.
SPCS NAD83 - State Plane Coordinate System North American Datum 1983
TOC - top of casing

**TABLE A4
GROUNDWATER SAMPLE SUMMARY, FIELD PARAMETERS, AND FLOW MEASUREMENTS - Q1 2024
Chemours Fayetteville Works, North Carolina**

Area	Location ID	Water Bearing Unit ¹	Adjacent Surface Water Feature	Synoptic Water Level Date	Sample ID	QA/QC	Sample Collection and Field Parameters						
							Sample Date and Time	pH (S.U.)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Specific Conductivity (µS/cm)	Temperature (°C)
Offsite	BLADEN-1DR	Black Creek Aquifer	Georgia Branch Creek	1/11/2024	CAP1Q24-BLADEN-1DR011524	--	1/15/2024 10:25	5.71	0.02	28.50	5.04	66.87	17.17
Onsite	LTW-01	Floodplain Deposits	Cape Fear River	1/11/2024	CAP1Q24-LTW-01-011724	--	1/17/2024 13:40	4.21	1.69	273.20	11.60	116.19	14.92
Onsite	LTW-02	Black Creek Aquifer	Cape Fear River	1/11/2024	CAP1Q24-LTW-02-011724	--	1/17/2024 12:40	4.95	0.10	134.90	3.39	83.42	16.03
Onsite	LTW-03	Floodplain Deposits	Cape Fear River	1/11/2024	CAP1Q24-LTW-03-013124	--	1/31/2024 11:05	4.31	0.54	279.20	16.10	106.00	15.24
Onsite	LTW-04	Floodplain Deposits	Cape Fear River	1/11/2024	CAP1Q24-LTW-04-011624	--	1/16/2024 13:05	4.78	0.11	223.80	15.20	70.70	15.88
Onsite	LTW-05	Black Creek Aquifer	Cape Fear River	1/11/2024	CAP1Q24-LTW-05-011524	--	1/15/2024 12:19	4.43	0.00	204.50	17.40	137.74	17.78
Onsite	OW-28	Black Creek Aquifer	Cape Fear River	1/11/2024	CAP1Q24-OW-28-011824	--	1/18/2024 12:06	4.56	0.04	106.60	0.63	47.66	15.53
Onsite	OW-33	Black Creek Aquifer	Cape Fear River	1/11/2024	CAP1Q24-OW-33-013024	--	1/30/2024 12:14	4.38	0.14	210.60	4.09	64.76	17.05
Onsite	PIW-1D	Black Creek Aquifer	Cape Fear River / Willis Creek	1/11/2024	CAP1Q24-PIW-1D-012224	--	1/22/2024 12:04	3.78	0.00	286.90	5.84	174.25	15.95
Onsite	PIW-1S	Floodplain Deposits	Cape Fear River / Willis Creek	1/11/2024	CAP1Q24-PIW-1S-011624	--	1/16/2024 15:47	3.8	2.71	311	3.35	213.57	14.28
Onsite	PIW-3D	Black Creek Aquifer	Cape Fear River	1/11/2024	CAP1Q24-PIW-3D-011824	--	1/18/2024 13:21	5.78	0.07	18.40	2.30	102.68	16.26
Onsite	PIW-7D	Black Creek Aquifer	Cape Fear River	1/11/2024	CAP1Q24-PIW-7D-011524	DUP/MS/MSD	1/15/2024 13:11	4.39	0.00	-0.80	0.99	113.51	17.30
				1/11/2024	CAP1Q24-PIW-7D-011524-D	Field Duplicate	1/15/2024 13:11	4.39	0.00	-0.80	0.99	113.51	17.30
Onsite	PIW-7S	Floodplain Deposits	Cape Fear River	1/11/2024	CAP1Q24-PIW-7S-011524	--	1/15/2024 15:20	5.65	0.00	90.31	8.06	139.69	17.07
Onsite	PW-04	Surficial Aquifer	Outfall 003	1/11/2024	CAP1Q24-PW-04-011724-Z	--	1/17/2024 15:55	3.86	8.11	362.10	40.60	539.05	13.70
Onsite	PW-06	Surficial Aquifer	Georgia Branch Creek	1/11/2024	CAP1Q24-PW-06-011524	--	1/15/2024 14:35	4.43	5.52	315.10	1.57	53.74	17.28
Onsite	PW-07	Surficial Aquifer	Georgia Branch Creek	1/11/2024	CAP1Q24-PW-07-020724	--	2/7/2024 10:40	9.06	12.28	-31.90	134.00	408.93	14.43
Onsite	PW-09	Black Creek Aquifer	Willis Creek	1/11/2024	CAP1Q24-PW-09-092324	DUP/MS/MSD	1/23/2024 14:40	6.61	0.13	-63.5	19.4	67.32	16.87
				1/11/2024	CAP1Q24-PW-09-092324-D	Field Duplicate	1/23/2024 14:40	6.61	0.13	-63.5	19.4	67.32	16.87
Onsite	PZ-22	Black Creek Aquifer	Cape Fear River	1/11/2024	CAP1Q24-PZ-22-011624	--	1/16/2024 15:20	4.57	0.15	76.30	9.44	82.41	15.30
Onsite	SMW-10	Black Creek Aquifer	Willis Creek	1/11/2024	CAP1Q24-SMW-10-011724	--	1/17/2024 14:39	5.71	0.00	-60.40	16.30	113.40	12.62
Onsite	SMW-11	Surficial Aquifer	Willis Creek	1/11/2024	CAP1Q24-SMW-11-011824	--	1/18/2024 15:25	4.25	4.03	238.20	1.01	48.26	15.80
Onsite	SMW-12	Black Creek Aquifer	Willis Creek	1/11/2024	CAP1Q24-SMW-12-011624	--	1/16/2024 15:06	3.80	0.55	198.70	2.79	133.25	11.91

Notes:

1 - Water Bearing Unit - refers to the primary aquifer unit where the well screen is estimated to be located.

-- - not measured/not sampled

°C - degrees Celsius

mg/L - milligrams per liter

µS/cm - microsiemens per centimeter

mV- millivolts

NTU - Nephelometric Turbidity Units

ORP - oxidation reduction potential

S.U. - Standard Units

"-Z" in Sample ID denotes field filtration

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	CFR-BLADEN	CFR-KINGS	CFR-MILE-76	CFR-TARHEEL
Field Sample ID	CAP1Q24-CFR-BLADEN-012424	CAP1Q24-CFR-KINGS-012524	CAP1Q24-CFR-RM-76-012424	CAP1Q24-CFR-TARHEEL-012424
Sample Date	1/24/2024	1/25/2024	1/24/2024	1/24/2024
QA/QC				
Sample Delivery Group (SDG)	320-109128-1	320-109128-1	320-109128-1	320-109128-1
Lab Sample ID	320-109128-5	320-109128-7	320-109128-4	320-109128-6
<i>Table 3+ (ng/L)</i>				
HFPO-DA	<4.0	<4.0	<4.0	<4.0
PFMOAA	<2.0	3.1	<2.0	<2.0
PFO2HxA	<2.0	<2.0	<2.0	<2.0
PFO3OA	<2.0	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0
PMPA	2.3	2.1	<2.0	2.2
PEPA	<2.0	<2.0	<2.0	<2.0
PS Acid	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS	<3.0	<3.0	<3.0	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0
PFPPrA	12	12	19	12
Perfluoroheptanoic Acid	3.4	2.6	3.1	3.1
Total Attachment C^{1,2}	2.3	5.2	ND	2.2
Total Table 3+ (17 compounds)^{2,3}	2.3	5.2	ND	2.2
Total Table 3+ (18 compounds)^{2,4}	14	17	19	14
Total Table 3+ (21 compounds)²	14	17	19	14

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	CFR-TARHEEL	GBC-5	Lock-Dam Seep	Lock-Dam Seep
Field Sample ID	CAP1Q24-CFR-TARHEEL-24-012524	CAP1Q24-GBC-5-012424	CAP1Q24-LOCK-DAM-SEEP-012424	CAP1Q24-LOCK-DAM-SEEP-012424-D
Sample Date	1/25/2024	1/24/2024	1/24/2024	1/24/2024
QA/QC				Field Duplicate
Sample Delivery Group (SDG)	320-109127-1	320-109128-1	320-109128-1	320-109128-1
Lab Sample ID	320-109127-7	320-109128-1	320-109128-2	320-109128-3
<i>Table 3+ (ng/L)</i>				
HFPO-DA	<4.0	360	6,500	7,300 J
PFMOAA	2.2	72	55,000	48,000 J
PFO2HxA	<2.0	340	22,000	23,000 J
PFO3OA	<2.0	39	11,000 J	13,000 J
PFO4DA	<2.0	18	1,500 J	2,800 J
PFO5DA	<2.0	2.4	150	200 J
PMPA	2.1	470	5,800	5,600 J
PEPA	<2.0	160	2,300	2,000 J
PS Acid	<2.0	<2.0	<50	<50 UJ
Hydro-PS Acid	<2.0	27	160	160 J
R-PSDA	<2.0	70 J	690 J	530 J
Hydrolyzed PSDA	<2.0	<2.0	430 J	480 J
R-PSDCA	<3.0	<3.0	<180	<180 UJ
NVHOS	<3.0	3.7	880	940 J
EVE Acid	<2.0	<2.0	<50	<50 UJ
Hydro-EVE Acid	<2.0	<2.0	140	170 J
R-EVE	<2.0	21 J	180 J	210 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<36	<36 UJ
PFECA B	<2.0	<2.0	<78	<78 UJ
PFECA-G	<2.0	<2.0	<36	<36 UJ
PFPPrA	12	550	19,000	18,000 J
Perfluoroheptanoic Acid	3.3	2.2	68	75 J
Total Attachment C^{1,2}	4.3	1,500	100,000	100,000
Total Table 3+ (17 compounds)^{2,3}	4.3	1,500	110,000	100,000
Total Table 3+ (18 compounds)^{2,4}	16	2,000	120,000	120,000
Total Table 3+ (21 compounds)²	16	2,100	130,000	120,000

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	OLDOF-1	OUTFALL 002	River Water Intake 2	SEEP-A-EFF
Field Sample ID	CAP1Q24-OLDOF-1B-24-012524	CAP1Q24-OUTFALL-002-24-012524	RIVER-WATER-INTAKE2-24-012524	CAP1Q24-SEEP-A-EFF-24-012524
Sample Date	1/25/2024	1/25/2024	1/25/2024	1/25/2024
QA/QC				
Sample Delivery Group (SDG)	320-109127-1	320-109127-1	320-109127-1	320-109127-1
Lab Sample ID	320-109127-6	320-109127-5	320-109127-2	320-109127-3
<i>Table 3+ (ng/L)</i>				
HFPO-DA	260	23	6.4	<4.0
PFMOAA	990	16	12	20
PFO2HxA	450	11	8.5	2.6
PFO3OA	110 J	3.0	<2.0	<2.0
PFO4DA	41 J	<2.0	<2.0	<2.0
PFO5DA	31	<2.0	<2.0	<2.0
PMPA	150	8.9	7.5	6.2
PEPA	50	<2.0	<2.0	<2.0
PS Acid	<2.0	3.9	<2.0	<2.0
Hydro-PS Acid	15	2.5	<2.0	<2.0
R-PSDA	19 J	18 J	3.0 J	<2.0
Hydrolyzed PSDA	36 J	27 J	2.9 J	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS	19	7.7	<3.0	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	7.5	<2.0	<2.0	<2.0
R-EVE	13 J	3.6 J	<2.0	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0
PFPrA	590	92	82	38
Perfluoroheptanoic Acid	<2.0	3.1	2.9	<2.0
Total Attachment C^{1,2}	2,100	68	34	29
Total Table 3+ (17 compounds)^{2,3}	2,100	76	34	29
Total Table 3+ (18 compounds)^{2,4}	2,700	170	120	67
Total Table 3+ (21 compounds)²	2,800	220	120	67

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-B-EFF	SEEP-C-EFF	SEEP-D-EFF	WC-6
Field Sample ID	CAP1Q24-SEEP-B-EFF-24-012624	CAP1Q24-SEEP-C-EFF-24-012524	CAP1Q24-SEEP-D-EFF-24-012624	CAP1Q24-WC-6-24-012524
Sample Date	1/26/2024	1/25/2024	1/26/2024	1/25/2024
QA/QC				
Sample Delivery Group (SDG)	320-109219-1	320-109127-1	320-109219-1	320-109127-1
Lab Sample ID	320-109219-1	320-109127-4	320-109219-2	320-109127-1
<i>Table 3+ (ng/L)</i>				
HFPO-DA	6.0	6.6	<4.0	170
PFMOAA	66	37	23	600
PFO2HxA	8.3	7.5	<2.0	250
PFO3OA	<2.0	<2.0	<2.0	33
PFO4DA	<2.0	<2.0	<2.0	6.1
PFO5DA	<2.0	<2.0	<2.0	<2.0
PMPA	18	13	2.2	220
PEPA	4.5	<2.0	<2.0	49
PS Acid	<2.0 UJ	<2.0	<2.0 UJ	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0	7.7
R-PSDA	<2.0	<2.0	<2.0	30
Hydrolyzed PSDA	2.2 J	<2.0	<2.0	100 J
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS	<3.0	<3.0	<3.0	12
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	3.2
R-EVE	<2.0	<2.0	<2.0	15 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0
PFPrA	55	130	25	400
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0
Total Attachment C^{1,2}	100	64	25	1,300
Total Table 3+ (17 compounds)^{2,3}	100	64	25	1,400
Total Table 3+ (18 compounds)^{2,4}	160	190	50	1,800
Total Table 3+ (21 compounds)²	160	190	50	1,900

**TABLE A5
SEEP AND SURFACE WATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	EB	EB
Field Sample ID	CAP1Q24-EQBLK-IS-012524	CAP1Q24-EQBLK-PP-012524
Sample Date	1/25/2024	1/25/2024
QA/QC	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-109127-1	320-109127-1
Lab Sample ID	320-109127-9	320-109127-8
Table 3+ (ng/L)		
HFPO-DA	<4.0	<4.0
PFMOAA	<2.0	<2.0
PFO2HxA	<2.0	<2.0
PFO3OA	<2.0	<2.0
PFO4DA	<2.0	<2.0
PFO5DA	<2.0	<2.0
PMPA	<2.0	<2.0
PEPA	<2.0	<2.0
PS Acid	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0
R-PSDA	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0
R-PSDCA	<3.0	<3.0
NVHOS	<3.0	<3.0
EVE Acid	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0
R-EVE	<2.0	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0
PFECA B	<2.0	<2.0
PFECA-G	<2.0	<2.0
PFPrA	<5.0	<5.0
Perfluoroheptanoic Acid	<2.0	<2.0
Total Attachment C^{1,2}	ND	ND
Total Table 3+ (17 compounds)^{2,3}	ND	ND
Total Table 3+ (18 compounds)^{2,4}	ND	ND
Total Table 3+ (21 compounds)²	ND	ND

Notes:

- Bold** - Analyte detected above associated reporting limit
- J - Analyte detected. Reported value may not be accurate or precise.
- ND - no analytes were detected above the associated reporting limits.
- ng/L - nanograms per liter
- QA/QC - Quality assurance/ quality control
- SDG - Sample Delivery Group
- < - Analyte not detected above associated reporting limit.
- UJ - Analyte not detected. Reporting limit may not be accurate or precise.
- 1 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 2 - Total Table 3+ and Total Attachment C were calculated including J qualified data but not non-detect data. The sum is rounded to two significant figures.
- 3 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
- 4 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Floodplain Deposits	Black Creek Aquifer	Floodplain Deposits
Location ID	BLADEN-1DR	LTW-01	LTW-02	LTW-03
Field Sample ID	CAP1Q24-BLADEN-1DR-011524	CAP1Q24-LTW-01-011724	CAP1Q24-LTW-02-011724	CAP1Q24-LTW-03-013124
Sample Date	1/15/2024	1/17/2024	1/17/2024	1/31/2024
QA/QC				
Sample Delivery Group (SDG)	320-108762-2	320-109020-1	320-109020-1	320-109381-1
Lab Sample ID	320-108762-10	320-109020-1	320-109020-2	320-109381-7
<i>Table 3+ (ng/L)</i>				
HFPO-DA	160 J	15,000	12,000	7,800
PFMOAA	28 J	12,000	32,000	86,000
PFO2HxA	110 J	17,000	28,000	28,000
PFO3OA	14 J	3,300	5,200	3,800
PFO4DA	<2.0 UJ	950	200	150
PFO5DA	<2.0 UJ	140	<130	<130
PMPA	320 J	15,000	14,000	11,000
PEPA	110 J	6,800	5,100	2,200
PS Acid	<2.0 UJ	<50	<50	<50 UJ
Hydro-PS Acid	<2.0 UJ	200	<55	<55
R-PSDA	12 J	830 J	780 J	770 J
Hydrolyzed PSDA	<2.0 UJ	83 J	1,800 J	5,300 J
R-PSDCA	<3.0 UJ	<180	<180	<180
NVHOS	<3.0 UJ	270	450	1,100
EVE Acid	<2.0 UJ	<50	<50	<50 UJ
Hydro-EVE Acid	<2.0 UJ	51	<30	42
R-EVE	4.7 J	310 J	440 J	320 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0 UJ	<36	<36	<36
PFECA B	<2.0 UJ	<78	<78	<78
PFECA-G	<2.0 UJ	<36	<36	<36
PFPrA	190 J	15,000	23,000	47,000
Perfluoroheptanoic Acid	<2.0 UJ	40	<31	<31
Total Attachment C^{2,3}	740	70,000	97,000	140,000
Total Table 3+ (17 compounds)^{3,4}	740	71,000	97,000	140,000
Total Table 3+ (18 compounds)^{3,5}	930	86,000	120,000	190,000
Total Table 3+ (21 compounds)³	950	87,000	120,000	190,000

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	LTW-04	LTW-05	OW-28	OW-33
Field Sample ID	CAP1Q24-LTW-04-011624	CAP1Q24-LTW-05-011524	CAP1Q24-OW-28-011824	CAP1Q24-OW-33-013024
Sample Date	1/16/2024	1/15/2024	1/18/2024	1/30/2024
QA/QC				
Sample Delivery Group (SDG)	320-108762-1	320-108762-1	320-109020-1	320-109381-1
Lab Sample ID	320-108762-5	320-108762-9	320-109020-9	320-109381-5
Table 3+ (ng/L)				
HFPO-DA	17,000	31,000	3,800	4,400
PFMOAA	55,000	200,000	1,600	7,700
PFO2HxA	26,000	68,000	3,300	3,800
PFO3OA	5,100	21,000	620	560
PFO4DA	560	2,300	85	<50
PFO5DA	<130	<130	<130	<130
PMPA	16,000	9,200	5,700	4,500
PEPA	5,500	1,800	2,800	1,300
PS Acid	<50	<50	<50	<50 UJ
Hydro-PS Acid	150	330	84	<55
R-PSDA	1,400 J	1,300 J	280 J	210 J
Hydrolyzed PSDA	2,800 J	2,600 J	<34	38 J
R-PSDCA	<180	<180	<180	<180
NVHOS	1,200	2,100	<160	<160
EVE Acid	<50	<50	<50	<50 UJ
Hydro-EVE Acid	370	1,300	<30	<30
R-EVE	1,100 J	1,500 J	120 J	140 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<36	<36	<36
PFECA B	<78	<78	<78	<78
PFECA-G	<36	<36	<36	<36
PFPrA	43,000 J	120,000 B	6,500	7,300
Perfluoroheptanoic Acid	68	310	<31	<31
Total Attachment C^{2,3}	130,000	330,000	18,000	22,000
Total Table 3+ (17 compounds)^{3,4}	130,000	340,000	18,000	22,000
Total Table 3+ (18 compounds)^{3,5}	170,000	460,000	24,000	30,000
Total Table 3+ (21 compounds)³	180,000	460,000	25,000	30,000

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PIW-1S	PIW-1D	PIW-3D	PIW-7D
Field Sample ID	CAP1Q24-PIW-1S-011624	CAP1Q24-PIW-1D-012224	CAP1Q24-PIW-3D-011824	CAP1Q24-PIW-7D-011524
Sample Date	1/16/2024	1/22/2024	1/18/2024	1/15/2024
QA/QC				
Sample Delivery Group (SDG)	320-108762-1	320-109019-1	320-109020-1	320-108762-1
Lab Sample ID	320-108762-7	320-109019-1	320-109020-7	320-108762-1
Table 3+ (ng/L)				
HFPO-DA	1,400	8,600	15,000	14,000
PFMOAA	390 J	10,000	25,000	150,000
PFO2HxA	1,200	9,800	27,000	38,000
PFO3OA	240	1,900	5,600	6,500
PFO4DA	110	250	1,800	870
PFO5DA	<130	<130	380	<130
PMPA	1,100	9,800	16,000	5,600
PEPA	330	3,700	6,100	1,100
PS Acid	<50	<50	<50	<50
Hydro-PS Acid	230	95	340	110
R-PSDA	110 J	380 J	780 J	570 J
Hydrolyzed PSDA	<34	<34	470 J	1,100 J
R-PSDCA	<180	<180	<180	<180
NVHOS	<160	<160	360	1,300
EVE Acid	<50	<50	<50	<50
Hydro-EVE Acid	30	32	100	320
R-EVE	<39	180 J	390 J	540 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<36	<36	<36
PFECA B	<78	<78	<78	<78
PFECA-G	<36	<36	<36	<36
PFPrA	1,300 J	11,000	22,000	71,000 J
Perfluoroheptanoic Acid	<31	<31	44	100
Total Attachment C^{2,3}	5,000	44,000	97,000	220,000
Total Table 3+ (17 compounds)^{3,4}	5,000	44,000	98,000	220,000
Total Table 3+ (18 compounds)^{3,5}	6,300	55,000	120,000	290,000
Total Table 3+ (21 compounds)³	6,400	56,000	120,000	290,000

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Floodplain Deposits	Surficial Aquifer	Surficial Aquifer
Location ID	PIW-7D	PIW-7S	PW-04	PW-04
Field Sample ID	CAP1Q24-PIW-7D-011524-D	CAP1Q24-PIW-7S-011524	CAP1Q24-PW-04-011724	CAP1Q24-PW-04-011724-Z
Sample Date	1/15/2024	1/15/2024	1/17/2024	1/17/2024
QA/QC	Field Duplicate			
Sample Delivery Group (SDG)	320-108762-1	320-108762-1	320-109020-1	320-109020-1
Lab Sample ID	320-108762-2	320-108762-3	320-109020-5	320-109020-6
Table 3+ (ng/L)				
HFPO-DA	14,000	13,000	1,000	1,100
PFMOAA	140,000	17,000	370	410
PFO2HxA	45,000	13,000	1,000	1,400
PFO3OA	6,300	3,800	450	570
PFO4DA	940	400	110	86
PFO5DA	<130	<130	<130	<130
PMPA	5,500	9,500	1,400	1,500
PEPA	1,100	3,800	590	650
PS Acid	<50	<50	<50	<50
Hydro-PS Acid	95	230	<55	<55
R-PSDA	560 J	790 J	130 J	130 J
Hydrolyzed PSDA	1,100 J	45 J	<34	<34
R-PSDCA	<180	<180	<180	<180
NVHOS	1,200	680	<160	<160
EVE Acid	<50	<50	<50	<50
Hydro-EVE Acid	310	360	<30	<30
R-EVE	600 J	880 J	66 J	65 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<36	<36	<36
PFECA B	<78	<78	<78	<78
PFECA-G	<36	<36	<36	<36
PFPrA	73,000 J	17,000 J	1,400	1,600
Perfluoroheptanoic Acid	100	56	<31	<31
Total Attachment C^{2,3}	210,000	61,000	4,900	5,700
Total Table 3+ (17 compounds)^{3,4}	210,000	62,000	4,900	5,700
Total Table 3+ (18 compounds)^{3,5}	290,000	79,000	6,300	7,300
Total Table 3+ (21 compounds)³	290,000	80,000	6,500	7,500

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit ¹	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	PW-06	PW-07	PW-09	PW-09
Field Sample ID	CAP1Q24-PW-06-011524	CAP1Q24-PW-07-020724	CAP1Q24-PW-09-012324	CAP1Q24-PW-09-012324-D
Sample Date	1/15/2024	2/7/2024	1/23/2024	1/23/2024
QA/QC				Field Duplicate
Sample Delivery Group (SDG)	320-108762-1	320-109816-1	320-109223-1	320-109223-1
Lab Sample ID	320-108762-8	320-109816-1	320-109223-1	320-109223-2
Table 3+ (ng/L)				
HFPO-DA	950	<190 UJ	<4.0	<4.0
PFMOAA	130 J	84 J	<2.0	<2.0
PFO2HxA	730	230 J	<2.0	<2.0
PFO3OA	<110	<110 UJ	<2.0	<2.0
PFO4DA	<50	<50 UJ	<2.0	<2.0
PFO5DA	<130	<130 UJ	<2.0	<2.0
PMPA	900	230 J	<2.0	<2.0
PEPA	360	<60 UJ	<2.0	<2.0
PS Acid	<50	<50 UJ	<2.0	<2.0
Hydro-PS Acid	<55	<55 UJ	<2.0	<2.0
R-PSDA	42 J	46 J	<2.0	<2.0
Hydrolyzed PSDA	<34	<34 UJ	<2.0	<2.0
R-PSDCA	<180	<180 UJ	<3.0	<3.0
NVHOS	<160	<160 UJ	<3.0	<3.0
EVE Acid	<50	<50 UJ	<2.0	<2.0
Hydro-EVE Acid	<30	<30 UJ	<2.0	<2.0
R-EVE	<39	<39 UJ	<2.0	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<36 UJ	<2.0	<2.0
PFECA B	<78	<78 UJ	<2.0	<2.0
PFECA-G	<36	<36 UJ	<2.0	<2.0
PFPrA	950 J	450 J	<5.0	<5.0
Perfluoroheptanoic Acid	<31	<31 UJ	<2.0	<2.0
Total Attachment C^{2,3}	3,100	840	ND	ND
Total Table 3+ (17 compounds)^{3,4}	3,100	840	ND	ND
Total Table 3+ (18 compounds)^{3,5}	4,000	1,300	ND	ND
Total Table 3+ (21 compounds)³	4,100	1,400	ND	ND

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer	Black Creek Aquifer
Location ID	PZ-22	SMW-10	SMW-11	SMW-12
Field Sample ID	CAP1Q24-PZ-22-011624	CAP1Q24-SMW-10-011724	CAP1Q24-SMW-11-011824	CAP1Q24-SMW-12-011624
Sample Date	1/16/2024	1/17/2024	1/18/2024	1/16/2024
QA/QC				
Sample Delivery Group (SDG)	320-108762-1	320-109020-1	320-109020-1	320-108762-1
Lab Sample ID	320-108762-6	320-109020-4	320-109020-8	320-108762-4
Table 3+ (ng/L)				
HFPO-DA	11,000	4.9	5,200	1,900
PFMOAA	150,000	160	9,500	9,600
PFO2HxA	42,000	17	4,900	3,200
PFO3OA	5,100	<2.0	1,200	490
PFO4DA	220	<2.0	340	<50
PFO5DA	<130	<2.0	<130	<130
PMPA	6,300	23	3,600	1,900
PEPA	1,400	<2.0	1,200	300
PS Acid	<50	<2.0	<50	<50
Hydro-PS Acid	<55	<2.0	<55	<55
R-PSDA	440 J	<2.0	120 J	65 J
Hydrolyzed PSDA	1,100 J	<2.0	88 J	<34
R-PSDCA	<180	<3.0	<180	<180
NVHOS	1,300	<3.0	160	<160
EVE Acid	<50	<2.0	<50	<50
Hydro-EVE Acid	73	<2.0	<30	<30
R-EVE	300 J	<2.0	88 J	45 J
Perfluoro(2-ethoxyethane)sulfonic Acid	<36	<2.0	<36	<36
PFECA B	<78	<2.0	<78	<78
PFECA-G	<36	<2.0	<36	<36
PFPrA	72,000 J	210	5,500	6,400 J
Perfluoroheptanoic Acid	36	<2.0	32	<31
Total Attachment C^{2,3}	220,000	200	26,000	17,000
Total Table 3+ (17 compounds)^{3,4}	220,000	200	26,000	17,000
Total Table 3+ (18 compounds)^{3,5}	290,000	410	32,000	24,000
Total Table 3+ (21 compounds)³	290,000	410	32,000	24,000

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit¹	--	--	--
Location ID	EB	EB	EB
Field Sample ID	CAP1Q24-EQBLK-PP-011724	CAP1Q24-EQBLK-BAILER-012224	CAP1Q24-EQBLK-BAILER-012224-Z
Sample Date	1/17/2024	1/22/2024	1/22/2024
QA/QC	Equipment Blank	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-108762-1	320-109019-1	320-109019-1
Lab Sample ID	320-108762-11	320-109019-6	320-109019-7
Table 3+ (ng/L)			
HFPO-DA	<4.0	<4.0	<4.0
PFMOAA	<2.0	<2.0	<2.0
PFO2HxA	<2.0	<2.0	<2.0
PFO3OA	<2.0	<2.0	<2.0
PFO4DA	<2.0	<2.0	<2.0
PFO5DA	<2.0	<2.0	<2.0
PMPA	<2.0	<2.0	<2.0
PEPA	<2.0	<2.0	<2.0
PS Acid	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	<2.0
R-PSDA	<2.0	<2.0	<2.0
Hydrolyzed PSDA	<2.0	<2.0	<2.0
R-PSDCA	<3.0	<3.0	<3.0
NVHOS	<3.0	<3.0	<3.0
EVE Acid	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0
R-EVE	<2.0	<2.0	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0
PFPrA	<5.0	<5.0	<5.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0
Total Attachment C^{2,3}	ND	ND	ND
Total Table 3+ (17 compounds)^{3,4}	ND	ND	ND
Total Table 3+ (18 compounds)^{3,5}	ND	ND	ND
Total Table 3+ (21 compounds)³	ND	ND	ND

**TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit¹	--
Location ID	EB
Field Sample ID	CAPIQ24-EQBLK-DV-012224
Sample Date	1/22/2024
QA/QC	Equipment Blank
Sample Delivery Group (SDG)	320-109019-1
Lab Sample ID	320-109019-5
Table 3+ (ng/L)	
HFPO-DA	<4.0
PFMOAA	<2.0
PFO2HxA	<2.0
PFO3OA	<2.0
PFO4DA	<2.0
PFO5DA	<2.0
PMPA	<2.0
PEPA	<2.0
PS Acid	<2.0
Hydro-PS Acid	<2.0
R-PSDA	<2.0
Hydrolyzed PSDA	<2.0
R-PSDCA	<3.0
NVHOS	<3.0
EVE Acid	<2.0
Hydro-EVE Acid	<2.0
R-EVE	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0
PFECA B	<2.0
PFECA-G	<2.0
PFPrA	<5.0
Perfluoroheptanoic Acid	<2.0
Total Attachment C^{2,3}	ND
Total Table 3+ (17 compounds)^{3,4}	ND
Total Table 3+ (18 compounds)^{3,5}	ND
Total Table 3+ (21 compounds)³	ND

Notes:

- B - analyte detected in an associated blank
- J - Analyte detected. Reported value may not be accurate or precise
- ND - no Table 3+ analytes were detected above the associated reporting limits
- ng/L - nanograms per liter
- QA/QC - Quality assurance/ quality control
- SDG - Sample Delivery Group
- UJ - Analyte not detected. Reporting limit may not be accurate or precise.
- "-Z" in Sample ID denotes field filtration
- < - Analyte not detected above associated reporting limit.
- - not applicable
- 1 - Refers to the primary aquifer unit that the well screen is estimated to be screened within
- 2 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 3 - Total Table 3+ and Total Attachment C were calculated including J qualified data but not non-detect data. The sum is rounded to two significant figures.
- 4 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
- 5 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

**TABLE A7
SUMMARY OF TOTAL PFAS MASS DISCHARGE BY PATHWAY AFTER REMEDIES
Chemours Fayetteville Works, North Carolina**

Pathway	Pathway Name	Total Flow Volume on Sample Date (MG) ¹	Total Attachment C ²		Total Table 3+ (17 compounds) ³		Total Table 3+ (18 compounds) ⁴		Total Table 3+ (21 compounds)	
			Concentration (ng/L)	Mass Discharge (mg/s)	Concentration (ng/L)	Mass Discharge (mg/s)	Concentration (ng/L)	Mass Discharge (mg/s)	Concentration (ng/L)	Mass Discharge (mg/s)
1	Upstream River Water and Groundwater ⁵	7,009	0.0	0.0	0.0	0.0	19	5.83	19	5.83
2	Willis Creek	6.00	1,300	0.34	1,400	0.37	1,800	0.47	1,900	0.50
3	Aerial Deposition on Water Features	--	--	0.01	--	0.01	--	0.01	--	0.01
4	Outfall 002 ⁶	16	34	0.02	42	0.03	50	0.03	100	0.07
4A	Stormwater Treatment System ⁷	--					--	--	--	--
5	Onsite Groundwater ⁸	--	--	0.04	--	0.04	--	0.05	--	0.05
6A	Seep A	0.05	29	6.4E-05	29	6.4E-05	67	1.5E-04	67	0.00
6B	Seep B	0.02	100	8.7E-05	100	8.7E-05	160	1.4E-04	160	1.4E-04
6C	Seep C	0.03	64	9.1E-05	64	9.1E-05	190	2.7E-04	190	2.7E-04
6D	Seep D	0.01	25	7.3E-06	25	7.3E-06	50	1.5E-05	50	1.5E-05
6E	Lock and Dam Seep	0.02	100,000	0.07	110,000	0.08	120,000	0.09	130,000	0.10
6F	Lock and Dam Seep North ⁹	--	--	--	--	--	--	--	--	--
7	Outfall 003 Stream ¹⁰	9.4E-02	2,100	0.01	2,100	0.01	2,700	0.01	2,800	0.01
8	Offsite Adjacent and Downstream Groundwater	--	--	0.0	--	0.0	--	2.20	--	2.20
9	Georgia Branch Creek	11.97	1,500	0.79	1,500	0.79	2,000	1.05	2,100	1.10
Calculated Total Table 3+ Loading (mg/s) at Tar Heel				1.28		1.33		9.75		9.87

Notes:

1 - Total flow volume is determined based on measurements taken over 24-hour sample collection period for all locations except Willis Creek, Lock and Dam Seep, Outfall 003, and Georgia Branch Creek. At these locations, the total flow volume was estimated based on the instantaneous flow measurement.

2 - Mass discharge calculations for Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).

3 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE and PFPrA.

4 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

5 - The volumetric flow rate for upstream river water and groundwater was estimated by subtracting inflows from Willis Creek, upwelling groundwater, seeps to the river, and Outfall 002 and by adding the river water intake from Chemours to the flow rate measurement from the W.O. Huske Dam.

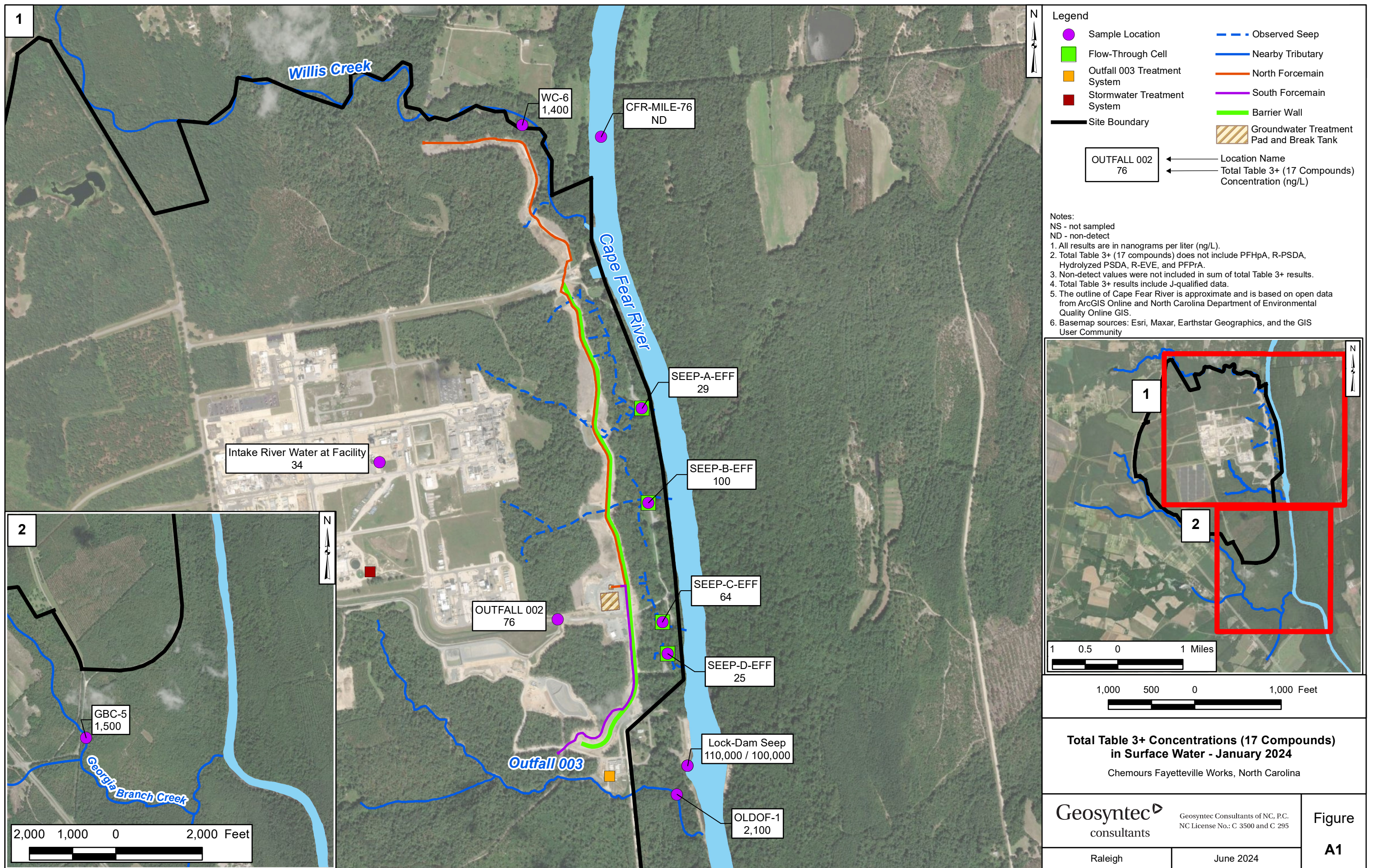
6 - Total PFAS concentrations at the Intake River Water at Facility location are subtracted from Outfall 002 concentrations to compute the mass discharge at Outfall 002.

7 - The stormwater treatment system captures PFAS originating from Stormwater in the Monomers/IXM area that would otherwise flow to Outfall 002 during storm events. During the January sampling event there was no stormwater flow to the stormwater treatment system, so there was no mass loading calculated for this location.

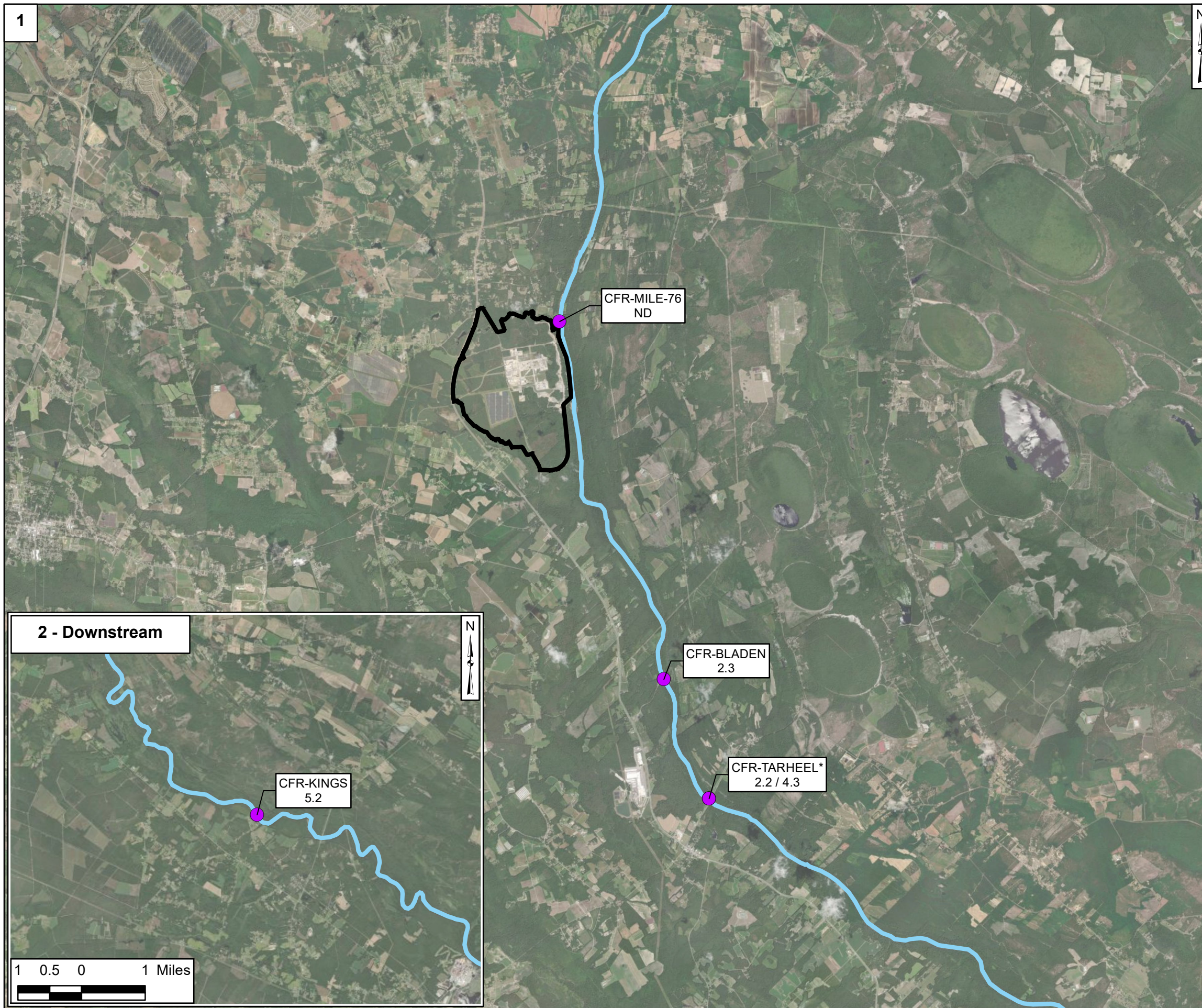
8 - Due to transient conditions as a result of the groundwater remedy installation and commissioning, gradient measurements are impacted from these activities and should be considered estimates.

9 - There was insufficient flow observed at Lock and Dam Seep North at the time of sampling and therefore samples were not collected and mass discharge could not be calculated.

10 - For January 2024, the concentrations from the stream sample collected downgradient from the Outfall 003 treatment system and effluent samples collected at the effluent basins of the Seep A, B, C and D flow-through cells were used to calculate the After Remedy mass discharge for these pathways.



Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US



Legend

- Sample Location
- Cape Fear River
- Site Boundary

CFR-BLADEN 2.3

Location Name

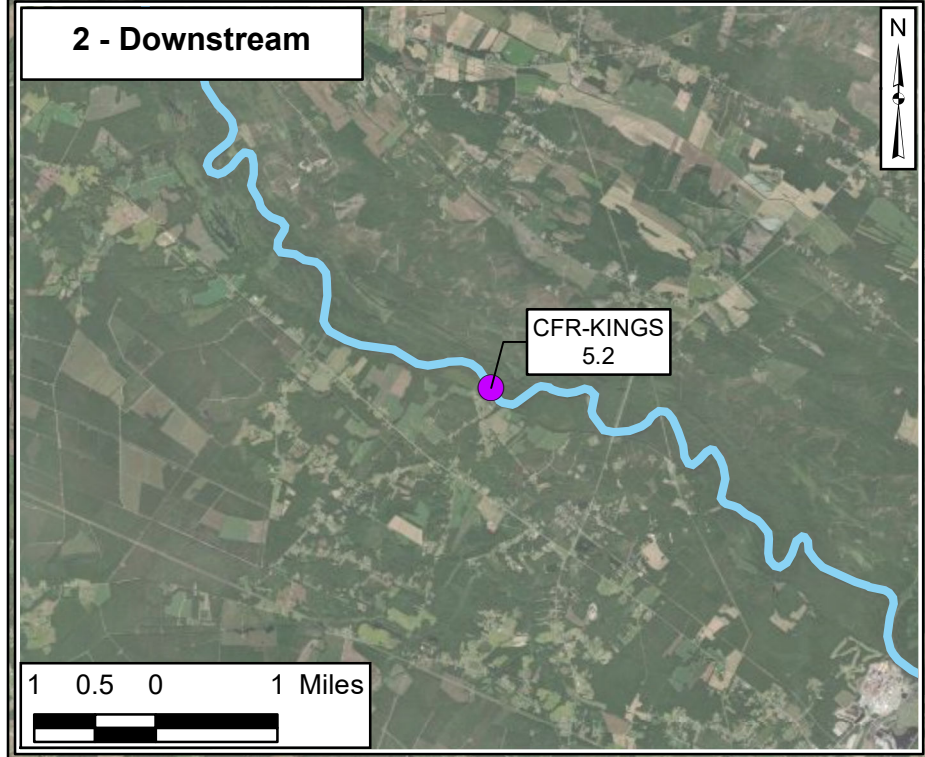
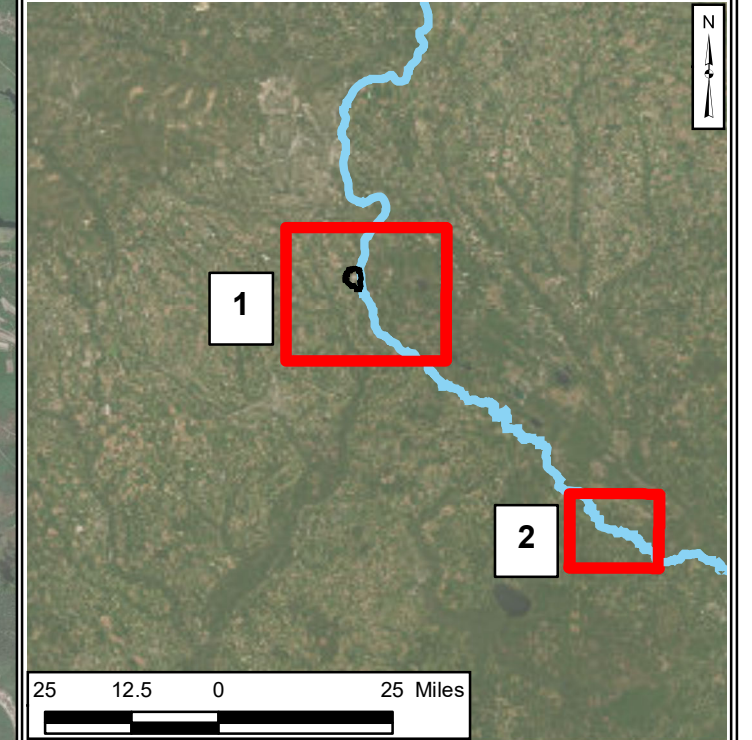
Total Table 3+ (17 Compounds) Concentration (ng/L)

Notes:

ND - no Table 3+ analytes (17 compounds) were detected above the associated reporting limits

* Multiple results are shown at CFR-TARHEEL for grab and composite sample.

1. All results are in nanograms per liter.
2. Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
3. Non-detect values were not included in sum of total Table 3+ results.
4. Total Table 3+ results include J-qualified data.
5. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS.
6. Basemap sources: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

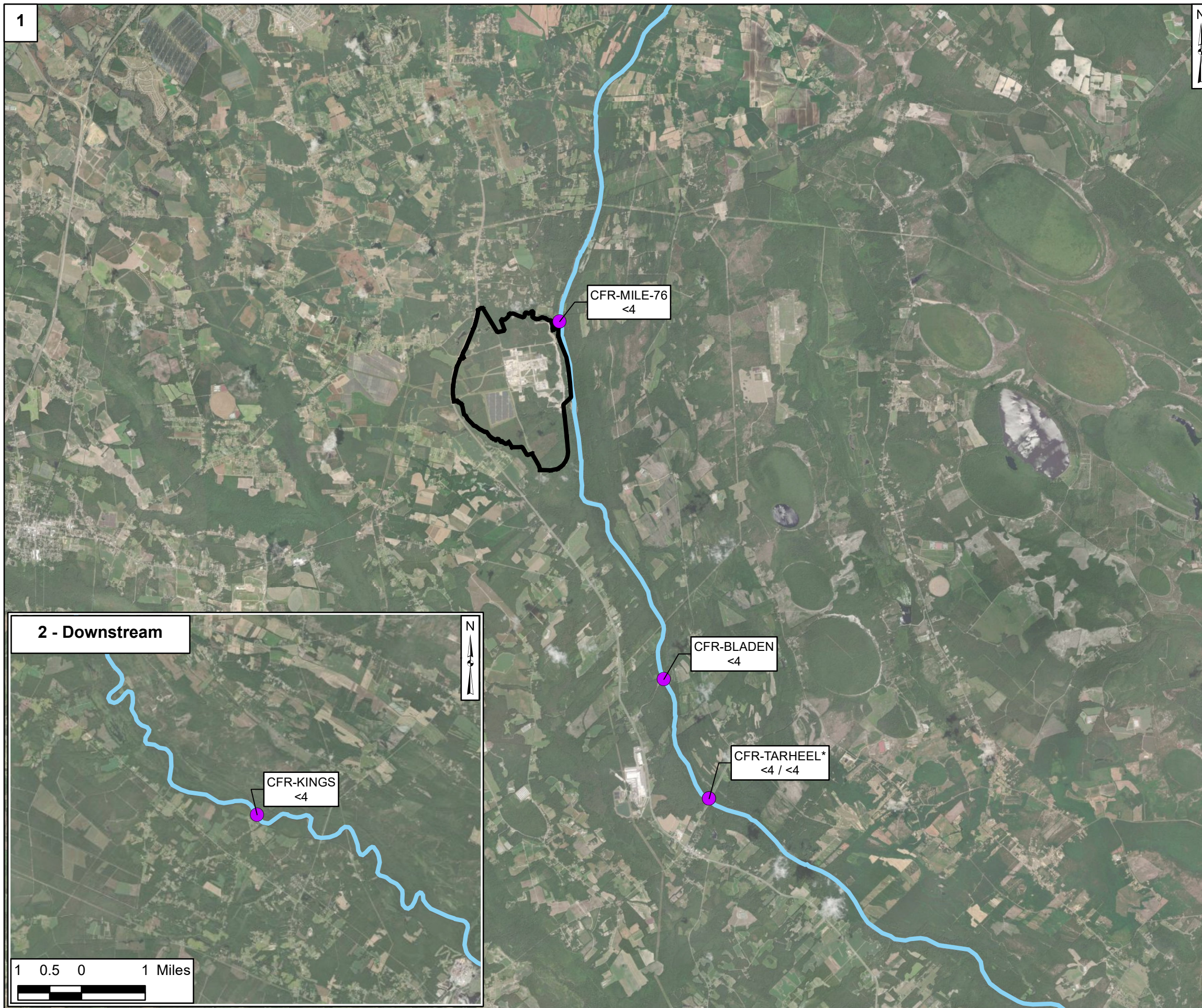


Cape Fear River Total Table 3+ Concentrations (17 Compounds) - January 2024

Chemours Fayetteville Works, North Carolina

	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>	Figure A2
Raleigh	June 2024	

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet. Units in Foot US



Legend

- Sample Location
- Cape Fear River
- Site Boundary

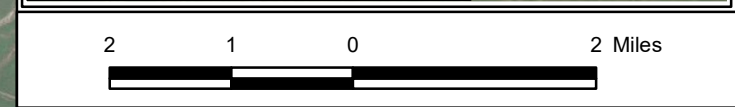
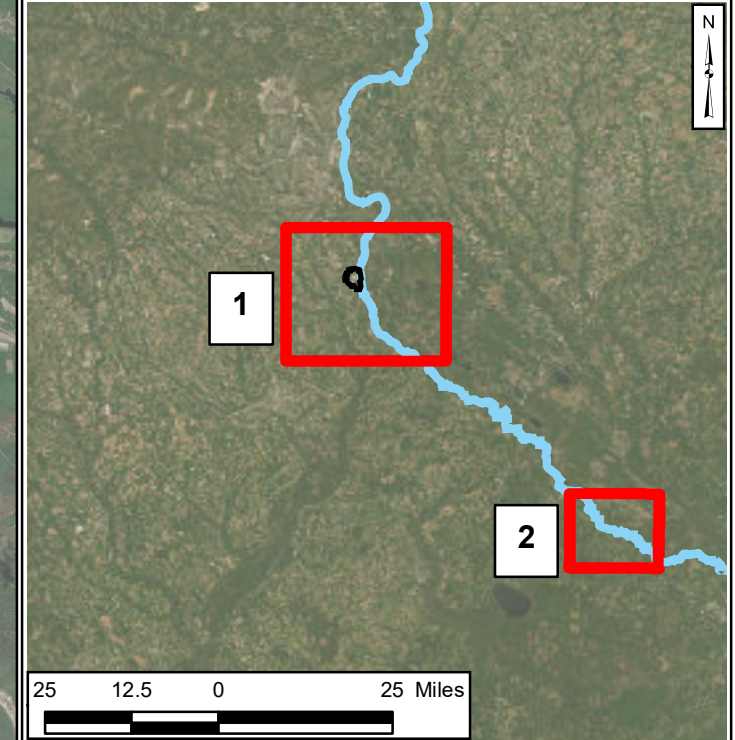
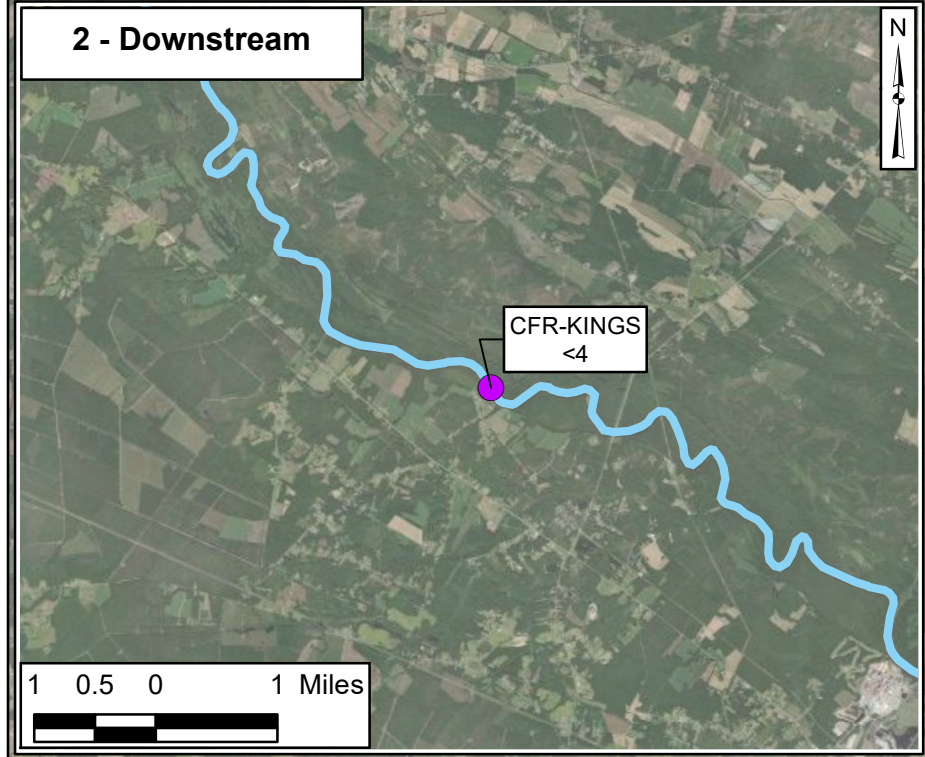
CFR-BLADEN
< 4

← Location Name
← HFPO-DA
← Concentration (ng/L)

Notes:

- * Multiple results are shown at CFR-TARHEEL for grab and composite sample.
- < - Analyte not detected above associated reporting limit.

1. All results are in nanograms per liter.
2. Basemap sources: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

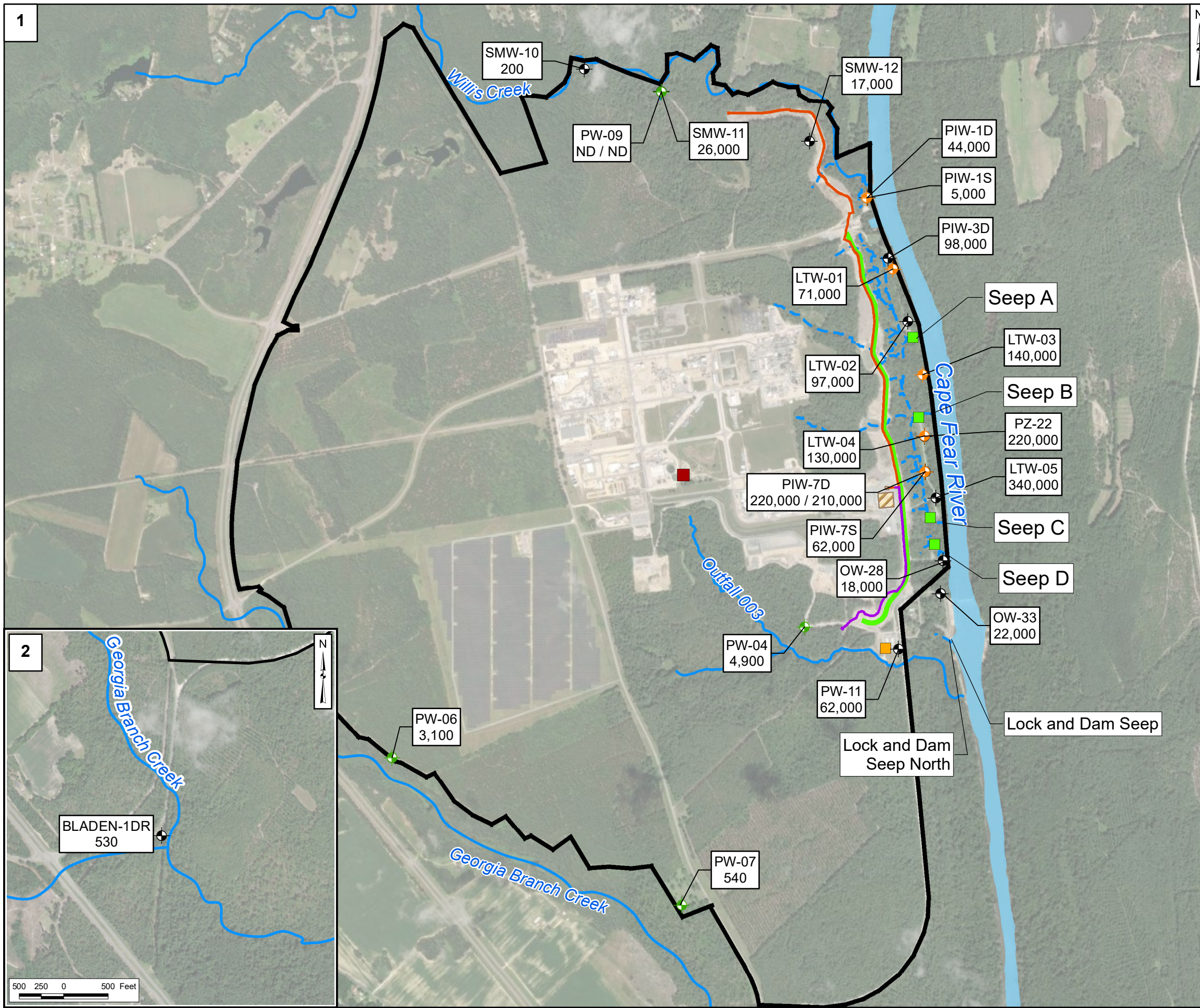


**Cape Fear River HFPO-DA Concentrations
January 2024**

Chemours Fayetteville Works, North Carolina

<p>Geosyntec consultants</p>	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	Figure A3
	Raleigh	

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet. Units in Foot US



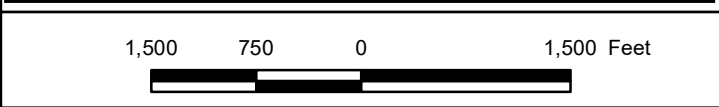
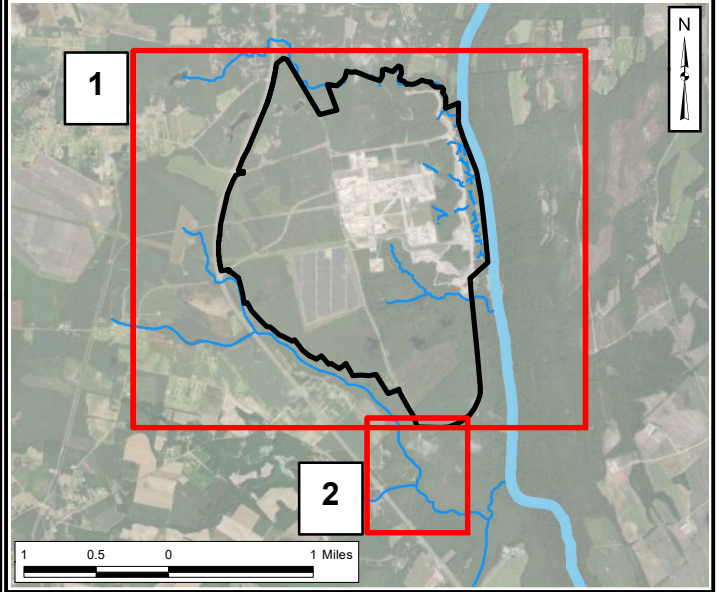
Legend

- Surficial Aquifer Monitoring Well
- Black Creek Aquifer Monitoring Well
- Floodplain Deposits Monitoring Well
- Flow-Through Cell
- Outfall 003 Treatment System
- Stormwater Treatment System
- Observed Seep
- Nearby Tributary
- Site Boundary
- North Forcemain
- South Forcemain
- Barrier Wall
- Groundwater Treatment Pad and Break Tank

PIW-1D 44,000
 Location Name
 Total Table 3+ Concentration (ng/L)

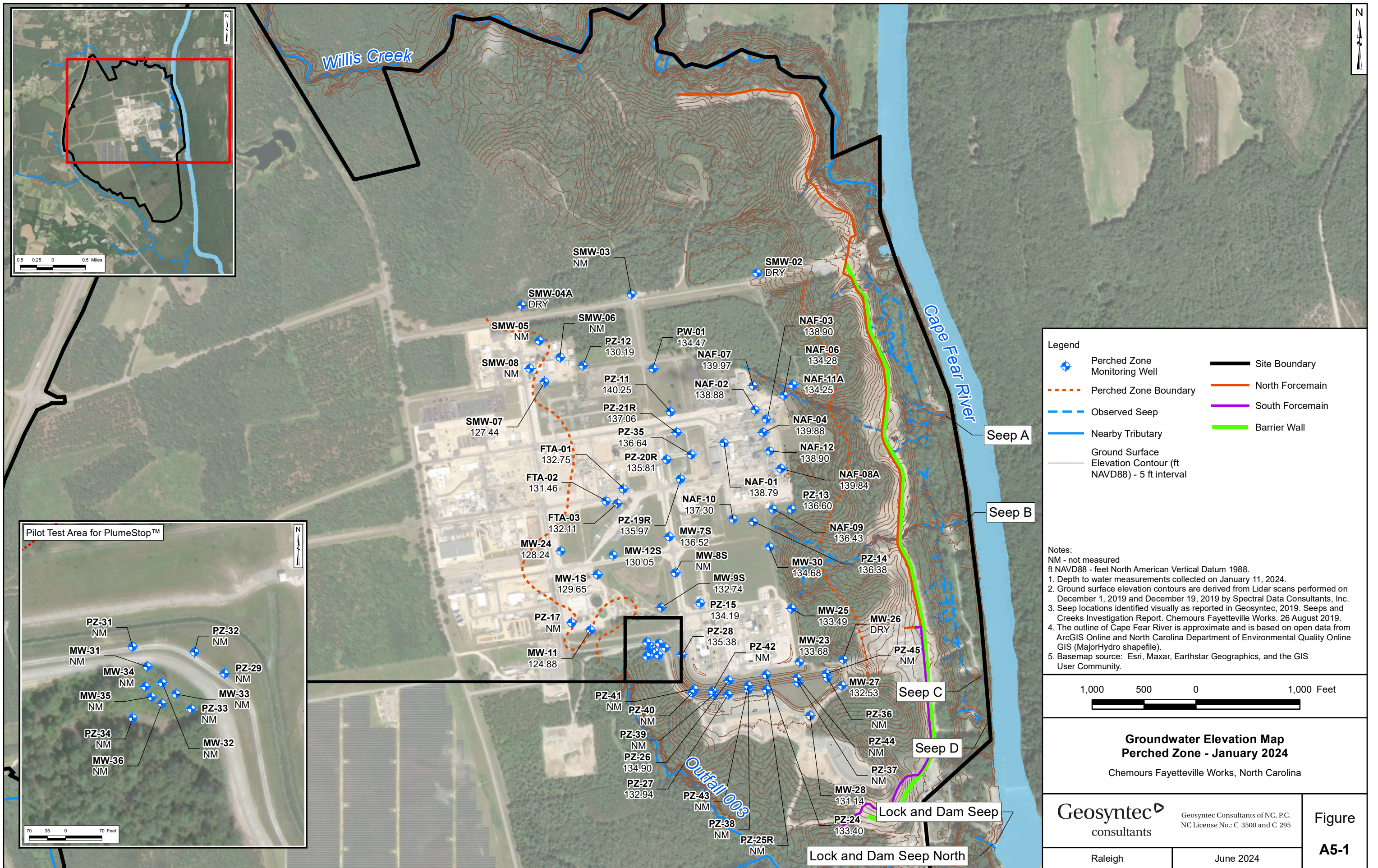
Notes:

- ND - no Table 3+ analytes (17 compounds) were detected above the associated reporting limits
- All results are in nanograms per liter.
- Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
- Non-detect values were not included in sum of total Table 3+ results.
- Total Table 3+ results include J-qualified data.
- The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS.
- Basemap sources: Esri, Maxar, Earthstar Geographics, and the GIS User Community.



**Total Table 3+ Concentrations
(17 Compounds) in Groundwater - Q1 2024**
Chemours Fayetteville Works, North Carolina

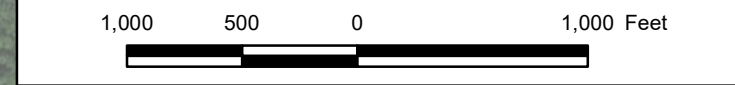
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet, Units in Foot US



Legend

- ◆ Perched Zone Monitoring Well
- - - Perched Zone Boundary
- - - Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary
- North Forcemain
- South Forcemain
- Barrier Wall

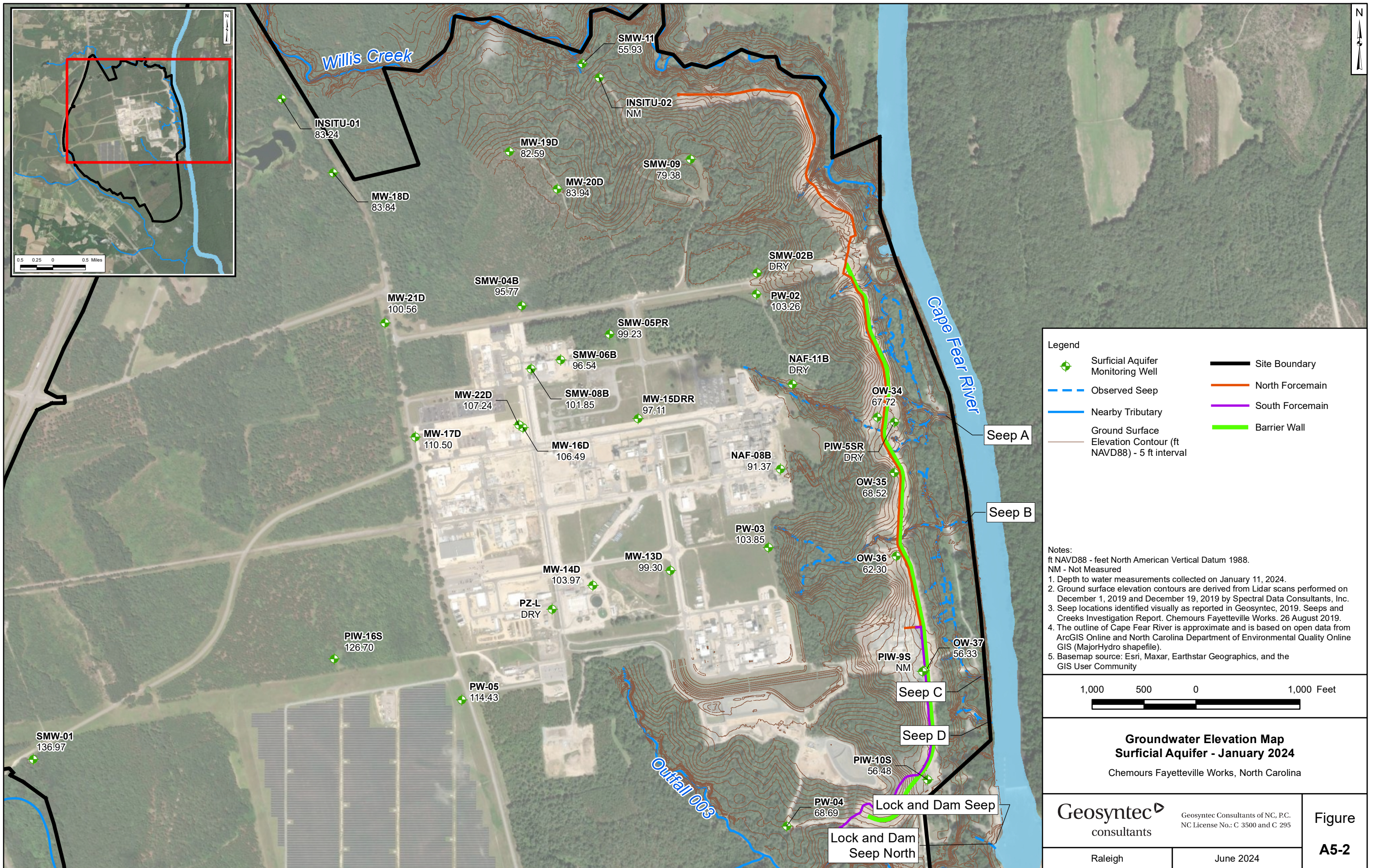
Notes:
 NM - not measured
 ft NAVD88 - feet North American Vertical Datum 1988.
 1. Depth to water measurements collected on January 11, 2024.
 2. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
 3. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
 4. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
 5. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.



**Groundwater Elevation Map
 Perched Zone - January 2024**
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	Figure A5-1
	Raleigh	

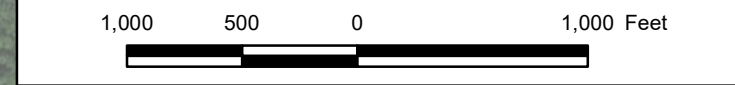
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet. Units in Foot US



Legend

Surficial Aquifer Monitoring Well	Site Boundary
Observed Seep	North Force main
Nearby Tributary	South Force main
Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval	Barrier Wall

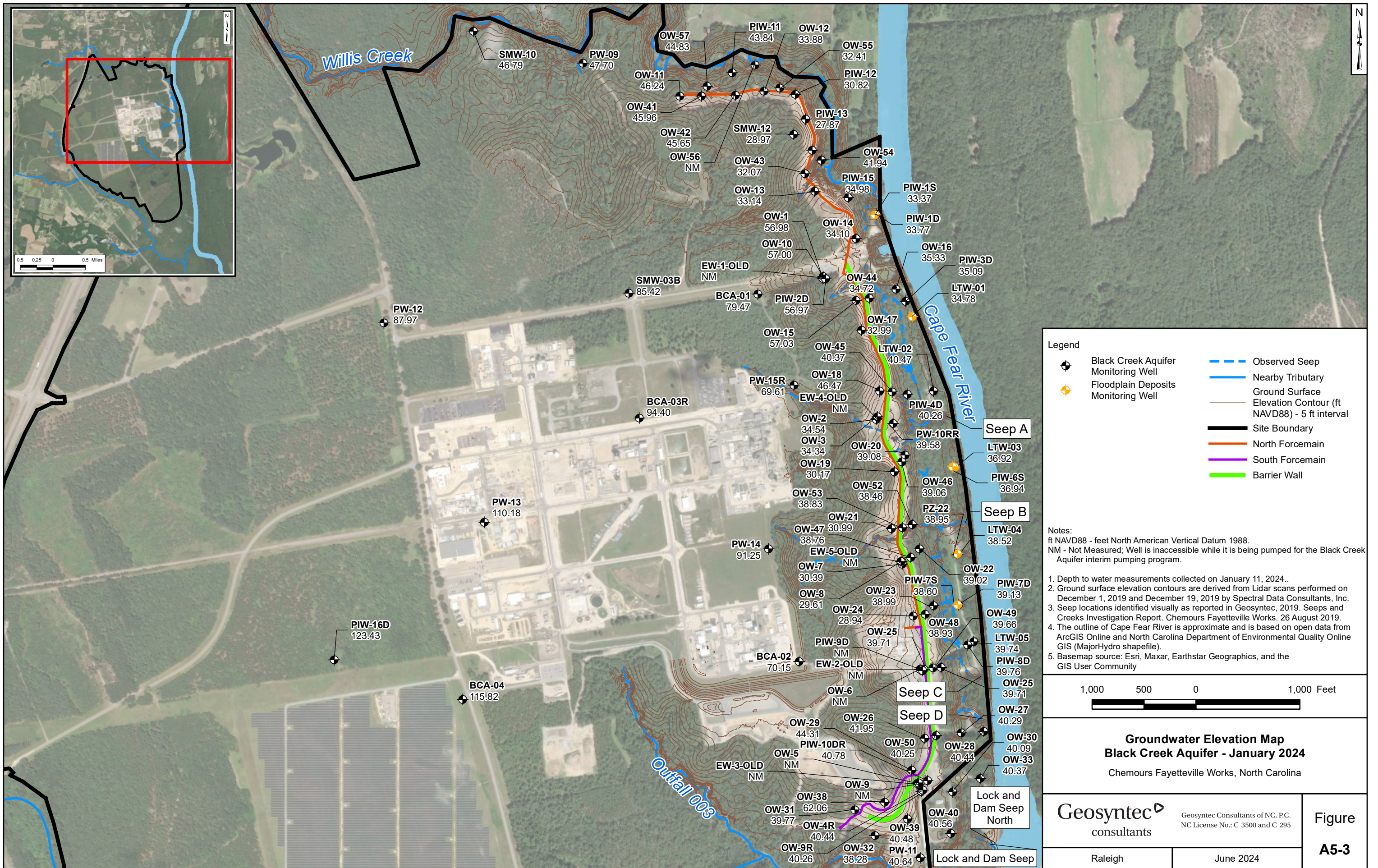
Notes:
 ft NAVD88 - feet North American Vertical Datum 1988.
 NM - Not Measured
 1. Depth to water measurements collected on January 11, 2024.
 2. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
 3. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
 4. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
 5. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



**Groundwater Elevation Map
 Surficial Aquifer - January 2024**
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	Figure A5-2
	Raleigh	

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US

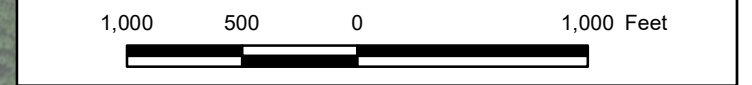


Legend

- ◆ Black Creek Aquifer Monitoring Well
- ◆ Floodplain Deposits Monitoring Well
- Observed Seep
- Nearby Tributary
- Ground Surface Elevation Contour (ft NAVD88) - 5 ft interval
- Site Boundary
- North Forcemain
- South Forcemain
- Barrier Wall

Notes:
 ft NAVD88 - feet North American Vertical Datum 1988.
 NM - Not Measured; Well is inaccessible while it is being pumped for the Black Creek Aquifer interim pumping program.

1. Depth to water measurements collected on January 11, 2024.
2. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
3. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
4. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
5. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Groundwater Elevation Map
Black Creek Aquifer - January 2024
 Chemours Fayetteville Works, North Carolina

	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	Figure A5-3
	Raleigh	

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet Units in Foot US

Attachment ATT1

Supplemental Tables to the Mass Loading Model

TABLE ATT1-1
SEEP A FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
1/24/2024 8:08	41.4	0	0	622
1/24/2024 8:23	31.5	0	0	473
1/24/2024 8:38	36.4	0	0	546
1/24/2024 8:53	39.4	0	0	591
1/24/2024 9:08	34.4	0	0	516
1/24/2024 9:23	30.6	0	0	459
1/24/2024 9:38	43.9	0	0	658
1/24/2024 9:53	26.0	0	0	391
1/24/2024 10:08	33.8	0	0	507
1/24/2024 10:23	39.4	0	0	591
1/24/2024 10:38	30.0	0	0	450
1/24/2024 10:53	19.6	0	0	293
1/24/2024 11:08	22.6	0	0	339
1/24/2024 11:23	22.6	0	0	339
1/24/2024 11:38	21.2	0	0	318
1/24/2024 11:53	22.0	0	0	330
1/24/2024 12:08	20.4	0	0	305
1/24/2024 12:23	22.3	0	0	335
1/24/2024 12:38	12.3	0	0	184
1/24/2024 12:53	29.1	0	0	436
1/24/2024 13:08	26.6	0	0	400
1/24/2024 13:23	26.0	0	0	391
1/24/2024 13:38	22.9	0	0	343
1/24/2024 13:53	27.2	0	0	409
1/24/2024 14:08	32.5	0	0	487
1/24/2024 14:23	34.7	0	0	521
1/24/2024 14:38	23.7	0	0	356
1/24/2024 14:53	22.6	0	0	339
1/24/2024 15:08	39.1	0	0	586
1/24/2024 15:23	22.0	0	0	330
1/24/2024 15:38	20.6	0	0	310
1/24/2024 15:53	36.4	0	0	546
1/24/2024 16:08	31.2	0	0	468
1/24/2024 16:23	28.1	0	0	422
1/24/2024 16:38	45.6	0	0	685
1/24/2024 16:53	33.1	0	0	497
1/24/2024 17:08	32.8	0	0	492
1/24/2024 17:23	38.0	0	0	571
1/24/2024 17:38	60.6	0	0	909
1/24/2024 17:53	38.0	0	0	571
1/24/2024 18:08	52.9	0	0	794

TABLE ATT1-1
SEEP A FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
1/24/2024 18:23	39.1	0	0	586
1/24/2024 18:38	54.4	0	0	817
1/24/2024 18:53	48.9	0	0	733
1/24/2024 19:08	47.8	0	0	717
1/24/2024 19:23	46.4	0	0	695
1/24/2024 19:38	44.9	0	0	674
1/24/2024 19:53	41.1	0	0	616
1/24/2024 20:08	31.5	0	0	473
1/24/2024 20:23	41.1	0	0	616
1/24/2024 20:38	29.7	0	0	445
1/24/2024 20:53	35.4	0	0	531
1/24/2024 21:08	31.5	0	0	473
1/24/2024 21:23	51.1	0	0	766
1/24/2024 21:38	34.1	0	0	511
1/24/2024 21:53	47.8	0	0	717
1/24/2024 22:08	38.7	0	0	581
1/24/2024 22:23	31.5	0	0	473
1/24/2024 22:38	41.4	0	0	622
1/24/2024 22:53	40.4	0	0	606
1/24/2024 23:08	40.4	0	0	606
1/24/2024 23:23	31.9	0	0	478
1/24/2024 23:38	38.0	0	0	571
1/24/2024 23:53	37.4	0	0	561
1/25/2024 0:08	40.8	0	0	611
1/25/2024 0:23	35.7	0	0	536
1/25/2024 0:38	38.0	0	0	571
1/25/2024 0:53	38.4	0	0	576
1/25/2024 1:08	40.1	0	0	601
1/25/2024 1:23	40.8	0	0	611
1/25/2024 1:38	43.5	0	0	653
1/25/2024 1:53	39.7	0	0	596
1/25/2024 2:08	42.1	0	0	632
1/25/2024 2:23	39.4	0	0	591
1/25/2024 2:38	44.2	0	0	663
1/25/2024 2:53	52.2	0	0	783
1/25/2024 3:08	38.0	0	0	571
1/25/2024 3:23	27.2	0	0	409
1/25/2024 3:38	39.7	0	0	596
1/25/2024 3:53	40.4	0	0	606
1/25/2024 4:08	38.7	0	0	581
1/25/2024 4:23	42.1	0	0	632

TABLE ATT1-1
SEEP A FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
1/25/2024 4:38	25.2	0	0	377
1/25/2024 4:53	35.4	0	0	531
1/25/2024 5:08	50.0	0	0	750
1/25/2024 5:23	44.6	0	0	669
1/25/2024 5:38	46.4	0	0	695
1/25/2024 5:53	30.6	0	0	459
1/25/2024 6:08	41.8	0	0	627
1/25/2024 6:23	50.3	0	0	755
1/25/2024 6:38	44.6	0	0	669
1/25/2024 6:53	46.7	0	0	701
1/25/2024 7:08	41.8	0	0	627
Total Flow Volume (gal)				50,654

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - Flow volumes are calculated as the total volume of flow passing through the Flow through cell (FTC) for the duration of the interval (15 mins). Where the interval duration is calculated as the time between the present recording and the previous recording.

TABLE ATT1-2
SEEP B FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
01/24/24 9:52	5	0	0	79
01/24/24 10:07	11	0	0	163
01/24/24 10:22	14	0	0	211
01/24/24 10:37	7	0	0	112
01/24/24 10:52	2	0	0	28
01/24/24 11:07	4	0	0	59
01/24/24 11:22	4	0	0	57
01/24/24 11:37	3	0	0	46
01/24/24 11:52	4	0	0	62
01/24/24 12:07	3	0	0	43
01/24/24 12:22	4	0	0	59
01/24/24 12:37	0	0	0	0
01/24/24 12:52	7	0	0	107
01/24/24 13:07	7	0	0	107
01/24/24 13:22	7	0	0	98
01/24/24 13:37	5	0	0	74
01/24/24 13:52	7	0	0	104
01/24/24 14:07	11	0	0	159
01/24/24 14:22	12	0	0	183
01/24/24 14:37	5	0	0	79
01/24/24 14:52	4	0	0	67
01/24/24 15:07	14	0	0	215
01/24/24 15:22	5	0	0	74
01/24/24 15:37	4	0	0	62
01/24/24 15:52	14	0	0	207
01/24/24 16:07	10	0	0	156
01/24/24 16:22	8	0	0	127
01/24/24 16:37	22	0	0	328
01/24/24 16:52	12	0	0	179
01/24/24 17:07	12	0	0	183
01/24/24 17:22	14	0	0	215
01/24/24 17:37	31	0	0	471
01/24/24 17:52	15	0	0	218
01/24/24 18:07	26	0	0	384
01/24/24 18:22	16	0	0	233
01/24/24 18:37	27	0	0	402
01/24/24 18:52	23	0	0	345
01/24/24 19:07	23	0	0	341
01/24/24 19:22	21	0	0	316
01/24/24 19:37	21	0	0	316
01/24/24 19:52	18	0	0	268
01/24/24 20:07	11	0	0	163
01/24/24 20:22	16	0	0	244

TABLE ATT1-2
SEEP B FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
01/24/24 20:37	10	0	0	149
01/24/24 20:52	13	0	0	193
01/24/24 21:07	11	0	0	163
01/24/24 21:22	24	0	0	358
01/24/24 21:37	12	0	0	183
01/24/24 21:52	23	0	0	345
01/24/24 22:07	16	0	0	237
01/24/24 22:22	11	0	0	159
01/24/24 22:37	18	0	0	264
01/24/24 22:52	17	0	0	256
01/24/24 23:07	18	0	0	264
01/24/24 23:22	12	0	0	183
01/24/24 23:37	15	0	0	229
01/24/24 23:52	15	0	0	226
01/25/24 0:07	18	0	0	264
01/25/24 0:22	14	0	0	204
01/25/24 0:37	16	0	0	233
01/25/24 0:52	17	0	0	248
01/25/24 1:07	17	0	0	248
01/25/24 1:22	16	0	0	237
01/25/24 1:37	19	0	0	287
01/25/24 1:52	16	0	0	241
01/25/24 2:07	18	0	0	268
01/25/24 2:22	14	0	0	211
01/25/24 2:37	18	0	0	271
01/25/24 2:52	23	0	0	349
01/25/24 3:07	14	0	0	215
01/25/24 3:22	7	0	0	101
01/25/24 3:37	15	0	0	226
01/25/24 3:52	16	0	0	244
01/25/24 4:07	16	0	0	233
01/25/24 4:22	19	0	0	279
01/25/24 4:37	7	0	0	101
01/25/24 4:52	13	0	0	200
01/25/24 5:07	23	0	0	341
01/25/24 5:22	20	0	0	295
01/25/24 5:37	21	0	0	312
01/25/24 5:52	10	0	0	149
01/25/24 6:07	18	0	0	268
01/25/24 6:22	24	0	0	354
01/25/24 6:37	20	0	0	295
01/25/24 6:52	22	0	0	324
01/25/24 7:07	18	0	0	271
01/25/24 7:22	18	0	0	275

TABLE ATT1-2
SEEP B FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
01/25/24 7:37	21	0	0	308
01/25/24 7:52	18	0	0	271
01/25/24 8:07	24	0	0	358
01/25/24 8:22	14	0	0	211
01/25/24 8:37	21	0	0	316
01/25/24 8:52	20	0	0	295
Total Flow Volume (gal)				19,858

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - Flow volumes are calculated as the total volume of flow passing through the Flow through cell (FTC) for the duration of the interval (15 mins). Where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE ATT1-3
SEEP C FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
1/24/2024 8:27	19.4	0	0	291
1/24/2024 8:42	25.3	0	0	379
1/24/2024 8:57	30.4	0	0	455
1/24/2024 9:12	23.8	0	0	358
1/24/2024 9:27	19.4	0	0	291
1/24/2024 9:42	35.5	0	0	532
1/24/2024 9:57	17.6	0	0	265
1/24/2024 10:12	22.9	0	0	343
1/24/2024 10:27	26.0	0	0	391
1/24/2024 10:42	19.9	0	0	298
1/24/2024 10:57	10.2	0	0	153
1/24/2024 11:12	12.5	0	0	187
1/24/2024 11:27	11.7	0	0	176
1/24/2024 11:42	10.0	0	0	150
1/24/2024 11:57	11.9	0	0	178
1/24/2024 12:12	8.8	0	0	132
1/24/2024 12:27	12.9	0	0	193
1/24/2024 12:42	3.9	0	0	58
1/24/2024 12:57	19.2	0	0	288
1/24/2024 13:12	15.5	0	0	232
1/24/2024 13:27	15.9	0	0	239
1/24/2024 13:42	14.1	0	0	211
1/24/2024 13:57	17.0	0	0	255
1/24/2024 14:12	18.5	0	0	278
1/24/2024 14:27	24.3	0	0	365
1/24/2024 14:42	14.1	0	0	211
1/24/2024 14:57	10.8	0	0	161
1/24/2024 15:12	26.3	0	0	394
1/24/2024 15:27	13.1	0	0	196
1/24/2024 15:42	10.4	0	0	156
1/24/2024 15:57	23.8	0	0	358
1/24/2024 16:12	20.8	0	0	312
1/24/2024 16:27	15.3	0	0	229
1/24/2024 16:42	33.0	0	0	495
1/24/2024 16:57	21.2	0	0	319
1/24/2024 17:12	23.1	0	0	347

**TABLE ATT1-3
SEEP C FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
1/24/2024 17:27	24.3	0	0	365
1/24/2024 17:42	48.2	0	0	723
1/24/2024 17:57	25.3	0	0	379
1/24/2024 18:12	39.4	0	0	590
1/24/2024 18:27	26.0	0	0	391
1/24/2024 18:42	38.5	0	0	578
1/24/2024 18:57	34.9	0	0	524
1/24/2024 19:12	34.4	0	0	515
1/24/2024 19:27	32.2	0	0	483
1/24/2024 19:42	30.1	0	0	452
1/24/2024 19:57	28.0	0	0	421
1/24/2024 20:12	19.9	0	0	298
1/24/2024 20:27	26.5	0	0	398
1/24/2024 20:42	16.6	0	0	248
1/24/2024 20:57	23.1	0	0	347
1/24/2024 21:12	16.8	0	0	252
1/24/2024 21:27	35.5	0	0	532
1/24/2024 21:42	20.8	0	0	312
1/24/2024 21:57	32.5	0	0	487
1/24/2024 22:12	24.6	0	0	368
1/24/2024 22:27	17.2	0	0	258
1/24/2024 22:42	26.5	0	0	398
1/24/2024 22:57	24.1	0	0	361
1/24/2024 23:12	24.6	0	0	368
1/24/2024 23:27	17.0	0	0	255
1/24/2024 23:42	23.6	0	0	354
1/24/2024 23:57	22.4	0	0	336
1/25/2024 0:12	25.3	0	0	379
1/25/2024 0:27	20.8	0	0	312
1/25/2024 0:42	22.6	0	0	340
1/25/2024 0:57	23.6	0	0	354
1/25/2024 1:12	25.1	0	0	376
1/25/2024 1:27	24.6	0	0	368
1/25/2024 1:42	29.8	0	0	448
1/25/2024 1:57	23.8	0	0	358
1/25/2024 2:12	27.8	0	0	417

TABLE ATT1-3
SEEP C FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
1/25/2024 2:27	25.3	0	0	379
1/25/2024 2:42	29.8	0	0	448
1/25/2024 2:57	36.0	0	0	540
1/25/2024 3:12	23.4	0	0	350
1/25/2024 3:27	14.3	0	0	214
1/25/2024 3:42	23.4	0	0	350
1/25/2024 3:57	24.8	0	0	372
1/25/2024 4:12	24.1	0	0	361
1/25/2024 4:27	24.6	0	0	368
1/25/2024 4:42	12.3	0	0	184
1/25/2024 4:57	20.1	0	0	301
1/25/2024 5:12	33.8	0	0	507
1/25/2024 5:27	29.8	0	0	448
1/25/2024 5:42	30.6	0	0	459
1/25/2024 5:57	17.0	0	0	255
1/25/2024 6:12	28.0	0	0	421
1/25/2024 6:27	35.5	0	0	532
1/25/2024 6:42	28.0	0	0	421
1/25/2024 6:57	31.4	0	0	471
1/25/2024 7:12	25.1	0	0	376
1/25/2024 7:27	25.8	0	0	387
Total Flow Volume (gal)				32,364

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - Flow volumes are calculated as the total volume of flow passing through the Flow through cell (FTC) for the duration of the interval (15 mins). Where the interval duration is calculated as the time between the present recording and the previous recording.

**TABLE ATT1-4
SEEP D FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
01/24/24 9:29	0.9	0	0	13
01/24/24 9:44	13.0	0	0	195
01/24/24 9:59	0.0	0	0	0
01/24/24 10:14	2.8	0	0	42
01/24/24 10:29	5.2	0	0	78
01/24/24 10:44	1.0	0	0	15
01/24/24 10:59	0.0	0	0	0
01/24/24 11:14	0.0	0	0	0
01/24/24 11:29	0.0	0	0	0
01/24/24 11:44	0.0	0	0	0
01/24/24 11:59	0.0	0	0	0
01/24/24 12:14	0.0	0	0	0
01/24/24 12:29	0.0	0	0	0
01/24/24 12:44	0.0	0	0	0
01/24/24 12:59	0.0	0	0	0
01/24/24 13:14	0.0	0	0	0
01/24/24 13:29	0.0	0	0	0
01/24/24 13:44	0.0	0	0	0
01/24/24 13:59	0.0	0	0	0
01/24/24 14:14	0.0	0	0	0
01/24/24 14:29	3.4	0	0	51
01/24/24 14:44	0.0	0	0	0
01/24/24 14:59	0.0	0	0	0
01/24/24 15:14	4.7	0	0	70
01/24/24 15:29	0.0	0	0	0
01/24/24 15:44	0.0	0	0	0
01/24/24 15:59	3.3	0	0	49
01/24/24 16:14	1.3	0	0	20
01/24/24 16:29	0.0	0	0	0
01/24/24 16:44	10.3	0	0	154
01/24/24 16:59	1.6	0	0	25
01/24/24 17:14	3.6	0	0	53
01/24/24 17:29	3.6	0	0	53
01/24/24 17:44	26.9	0	0	404
01/24/24 17:59	4.7	0	0	70
01/24/24 18:14	18.0	0	0	269
01/24/24 18:29	5.2	0	0	78
01/24/24 18:44	16.4	0	0	246
01/24/24 18:59	12.5	0	0	188
01/24/24 19:14	11.4	0	0	171
01/24/24 19:29	10.3	0	0	154
01/24/24 19:44	8.6	0	0	129
01/24/24 19:59	7.0	0	0	105
01/24/24 20:14	1.8	0	0	27

**TABLE ATT1-4
SEEP D FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
01/24/24 20:29	6.1	0	0	91
01/24/24 20:44	0.0	0	0	0
01/24/24 20:59	3.0	0	0	44
01/24/24 21:14	0.0	0	0	0
01/24/24 21:29	14.4	0	0	216
01/24/24 21:44	1.2	0	0	18
01/24/24 21:59	11.2	0	0	167
01/24/24 22:14	4.7	0	0	70
01/24/24 22:29	0.0	0	0	0
01/24/24 22:44	5.7	0	0	86
01/24/24 22:59	3.6	0	0	53
01/24/24 23:14	4.7	0	0	70
01/24/24 23:29	0.0	0	0	0
01/24/24 23:44	3.1	0	0	47
01/24/24 23:59	3.1	0	0	47
01/25/24 0:14	5.0	0	0	75
01/25/24 0:29	1.3	0	0	20
01/25/24 0:44	2.8	0	0	42
01/25/24 0:59	3.0	0	0	44
01/25/24 1:14	4.8	0	0	73
01/25/24 1:29	5.4	0	0	80
01/25/24 1:44	8.6	0	0	129
01/25/24 1:59	3.4	0	0	51
01/25/24 2:14	7.0	0	0	105
01/25/24 2:29	5.4	0	0	80
01/25/24 2:44	9.0	0	0	135
01/25/24 2:59	14.9	0	0	224
01/25/24 3:14	4.0	0	0	60
01/25/24 3:29	0.0	0	0	0
01/25/24 3:44	3.6	0	0	53
01/25/24 3:59	4.8	0	0	73
01/25/24 4:14	4.2	0	0	63
01/25/24 4:29	4.5	0	0	68
01/25/24 4:44	0.0	0	0	0
01/25/24 4:59	2.4	0	0	36
01/25/24 5:14	13.2	0	0	198
01/25/24 5:29	8.2	0	0	123
01/25/24 5:44	10.1	0	0	151
01/25/24 5:59	0.0	0	0	0
01/25/24 6:14	8.2	0	0	123
01/25/24 6:29	15.2	0	0	227
01/25/24 6:44	8.2	0	0	123
01/25/24 6:59	11.2	0	0	167
01/25/24 7:14	5.2	0	0	78

TABLE ATT1-4
SEEP D FLOW THROUGH CELL (FTC) DATA
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Date/Time	Flow Rate (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume¹ (gal)
01/25/24 7:29	6.6	0	0	99
01/25/24 7:44	7.8	0	0	117
01/25/24 7:59	4.8	0	0	73
01/25/24 8:14	13.5	0	0	202
01/25/24 8:29	3.1	0	0	47
Total Flow Volume (gal)		--		6,706

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - Flow volumes are calculated as the total volume of flow passing through the Flow through cell (FTC) for the duration of the interval (15 mins). Where the interval duration is calculated as the time between the present recording and the previous recording.

TABLE ATT1-5
OUTFALL 003 STREAM VOLUMETRIC DISCHARGE CALCULATIONS
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area ²	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area ¹
	(ft)	(ft)	(ft ²)	(ft/s)	(ft/s)	(ft ³ /s)
East Bank	0	0	0.02	0	0.06	0.001
B	0.5	0.08	0.04	0.10	0.12	0.01
T	0.5	0		0.15		
B	1	0.08	0.05	0.10	0.25	0.01
T	1	0		0.14		
B	1.5	0.13	0.05	0.28	0.27	0.01
T	1.5	0		0.46		
B	2	0.08	0.05	0.12	0.23	0.01
T	2	0		0.21		
B	2.5	0.13	0.07	0.23	0.24	0.02
T	2.5	0		0.35		
B	3	0.17	0.10	0.14	0.22	0.02
T	3	0		0.24		
B	3.5	0.25	0.13	0.17	0.24	0.03
M	3.5	0.13		0.24		
T	3.5	0		0.26		
B	4	0.25	0.09	0.10	0.22	0.02
M	4	0.13		0.24		
T	4	0		0.29		
B	4.5	0.13	0.05	0.13	0.14	0.01
T	4.5	0		0.25		
B	5	0.08	0.04	0.06	0.06	0.003
T	5	0		0.10		
B	5.5	0.08	0.02	0.05	0.02	0.0005
T	5.5	0		0.04		
West Bank	6	0		0		
Associated Measurement Notes			Total Volumetric Discharge			
Location: Chemours Fayetteville			(ft ³ /s)			0.15
Station: Outfall 003 Treatment Plant Effluent Stream			(gpm)			65
Date: January 24, 2024			(L/s)			4.1

Acronyms

- data not measured or calculated
- B - Bottom depth of water
- ft - feet
- ft² - square feet
- ft³/s - cubic feet per second
- gpm - gallons per minute
- L/s - liters per second
- M - Middle depth of water
- T - Top depth of water (i.e., 0 ft)

Notes

- 1 - Discharge is calculated as product of creek velocity measured at the mid-depth (feet per second) times the cross sectional area of each
- 2 - Measurement cell areas are calculated assuming a trapezoidal geometry based on distances between measurement points and the measured water column depths. A measurement cell is an areal section from the width of the river channel.

TABLE ATT1-6
WILLIS CREEK VOLUMETRIC DISCHARGE CALCULATIONS
Chemours Fayetteville Works, North Carolina

Measurement Point	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area ²	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area ¹	
	(ft)	(ft)	(ft ²)	(ft/s)	(ft/s)	(ft ³ /s)	
South Bank	0	0.00	1.08	0.00	0.26	0.28	
B	2	1.08	1.96	0.03	0.49	0.95	
M	2	0.54		0.51			
T	2	0.00		0.62			
B	4	0.88	1.46	0.23	0.50	0.72	
M	4	0.44		0.46			
T	4	0.00		0.49			
B	6	0.58	1.08	0.28	0.59	0.64	
M	6	0.29		0.53			
T	6	0.00		0.57			
B	8	0.50	1.04	0.25	0.62	0.64	
M	8	0.25		0.65			
T	8	0.00		0.85			
B	10	0.54	1.21	0.25	0.63	0.76	
M	10	0.27		0.58			
T	10	0.00		0.81			
B	12	0.67	1.58	0.38	0.80	1.27	
M	12	0.33		0.68			
T	12	0.00		0.91			
B	14	0.92	1.92	0.55	0.79	1.50	
M	14	0.46		0.92			
T	14	0.00		0.97			
B	16	1.00	2.50	0.28	0.63	1.56	
M	16	0.50		0.65			
T	16	0.00		0.93			
B	18	1.50	2.50	0.19	0.36	0.90	
M	18	0.75		0.60			
T	18	0.00		0.59			
B	20	1.00	1.00	0.05	0.06	0.06	
M	20	0.50		0.12			
T	20	0.00		0.18			
North Bank	22	0.00		0			
Total Volumetric Discharge							
						(ft ³ /s)	9.3
						(gpm)	4,166
						(L/s)	263

Associated Measurement Notes

Location: Chemours Fayetteville
 Station: Willis Creek 06 (SW-WC-06)
 Date: January 24, 2024

Acronyms

-- data not measured or calculated
 B - Bottom depth of water
 ft - feet
 ft² - square feet
 ft³/s - cubic feet per second
 gpm - gallons per minute
 L/s - liters per second
 M - Middle depth of water
 T - Top depth of water (i.e., 0 ft)

Notes

1 - Discharge is calculated as product of creek velocity measured at the mid-depth (feet per second) times the cross sectional area of each measurement cell.
 2 - Measurement cell areas are calculated assuming a trapezoidal geometry based on distances between measurement points and the measured water column depths. A measurement cell is an areal section from the width of the river channel.

TABLE ATT1-7
GEORGIA BRANCH CREEK VOLUMETRIC DISCHARGE CALCULATIONS
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Location	Distance Along Measured Cross Section	Measured Water Column Depth	Calculated Creek Cell Area ²	Measured Creek Velocity	Cell Velocity	Calculated Discharge Through Creek Cell Area ¹	
	(ft)	(ft)	(ft ²)	(ft/s)	(ft/s)	(ft ³ /s)	
SW Bank	0	0	8.50	0	0.10	0.87	
B	1	17	17.50	0.06	0.213	3.72	
M	1	12		0			
M	1	6		0.21			
T	1	0		0.19			
B	2	18	18.00	0.08	0.21	3.74	
M	2	12		0.21			
M	2	6		0.23			
T	2	0		0.2			
B	3	18	17.50	0.13	0.21	3.68	
M	3	12		0.17			
M	3	6		0.22			
T	3	0		0.19			
B	4	17	16.00	0.19	0.22	3.52	
M	4	12		0.22			
M	4	6		0.23			
T	4	0		0.2			
B	5	15	13.50	0.17	0.15	2.06	
M	5	12		0.21			
M	5	6		0.22			
T	5	0		0.18			
B	6	12	10.00	0.06	0.08	0.80	
M	6	6		0.09			
T	6	0		0.07			
B	7	8	4.00	0.02	0.04	0.14	
M	7	4		0.07			
T	7	0		0.05			
NE Bank	8	0		0			
Total Volumetric Discharge							
						(ft ³ /s)	18.5
						(gpm)	8,311
						(L/s)	524

Associated Measurement Notes

Location: Chemours Fayetteville
 Station: Georgia Branch 05 (SW-GB-01)
 Date: January 24, 2024

Acronyms

- data not measured or calculated
- B - Bottom depth of water
- ft - feet
- ft² - square feet
- ft³/s - cubic feet per second
- gpm - gallons per minute
- L/s - liters per second
- M - Middle depth of water
- T - Top depth of water (i.e., 0 ft)

Notes

- 1 - Discharge is calculated as product of creek velocity measured at the middle-depth (feet per second) times the cross sectional area of each measurement cell.
- 2 - Measurement cell areas are calculated assuming a trapezoidal geometry based on distances between measurement points and the measured water column depths. A measurement cell is an areal section from the width of the river channel.

**TABLE ATT1-8
 OUTFALL 002 FLOW RATE
 Chemours Fayetteville Works, North Carolina**

Geosyntec Consultants of NC, P.C.

Q1 2024 Quarterly Event	Date	Outfall 002 Flow (MGD)	Total Daily Volume (gal)	Hours of Sample Collection	Approximate Total Volume during 24 hour Sample Collection (gal)
Jan 2024 ¹	01/24/2024	18.861	18,861,000	15.6	12,259,650
	01/25/2024	12.034	12,034,000	7.4	3,710,483
	1/24/2024 8:24:00 AM to 1/25/2024 7:24:00 AM			23.0	15,970,133

Notes:

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 7:24 AM on 1/25/24 approximated based on flow rates for 1/24/24 and 1/25/24.

Acronyms:

gal - gallons

MGD - millions of gallons per day

TABLE ATT1-9
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Q1 2024 Quarterly Event	Pathway/ Location	Sample Collection Timepoint	Flow Gauging Location¹	Grab Sample Instantaneous Flow Rate (ft³/s)²
Jan 2024	Upstream River Water and Groundwater	01/24/24 14:10	William O Huske Lock and Dam	10,900

Notes:

- 1 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam, North Carolina.
- 2 - Instantaneous flow rate for grab samples is the recorded flow rate at the time of grab sample collection.

Acronyms:ft³/s - cubic feet per second

MGD - millions of gallons per day

TABLE ATT1-10
CHEMOURS FACILITY INTAKE FLOW RATE
Chemours Fayetteville Works, North Carolina

Geosyntec Consultants of NC, P.C.

Q1 2024 Quarterly Event	Date	Intake Flow River Water Total Daily Flow Average (gpm)	Total Daily Volume (gal)	Hours of Sample Collection	Approximate Total Volume during 24 hour Sample Collection (gal)
Jan 2024 ¹	1/24/2024	8,155	11,743,690	15.9	7,780,194
	1/25/2024	8,260	11,894,745	7.10	3,518,862
	1/24/24 8:06:00 AM to 1/25/24 7:06:00 AM			23.0	11,299,056

Notes:

Daily flow rates collected from facility Discharge Monitoring Reports.

1 - Total flow volume for 24-hour temporal composite sample collected at 7:06 am on 1/25/24 approximated based on flow rates for 1/24/24 and 1/25/24.

Acronyms:

gal - gallons

gpm - gallons per minute

**TABLE ATT1-11
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	CFR-BLADEN	CFR-KINGS	CFR-MILE-76	CFR-TARHEEL	CFR-TARHEEL	GBC-5	LOCK-DAM SEEP
Field Sample ID	CAPIQ24-CFR-BLADEN-012424	CAPIQ24-CFR-KINGS-012524	CAPIQ24-CFR-RM-76-012424	CAPIQ24-CFR-TARHEEL-012424	CAPIQ24-CFR-TARHEEL-24-012524	CAPIQ24-GBC-5-012424	CAPIQ24-LOCK-DAM-SEEP-012424
Sample Date	1/24/2024	1/25/2024	1/24/2024	1/24/2024	1/25/2024	1/24/2024	1/24/2024
QA/QC							
Sample Matrix	LIQUID	LIQUID	LIQUID	LIQUID	Liquid	LIQUID	LIQUID
Sample Delivery Group (SDG)	320-109128-1	320-109128-1	320-109128-1	320-109128-1	320-109127-1	320-109128-1	320-109128-1
Lab Sample ID	320-109128-5	320-109128-7	320-109128-4	320-109128-6	320-109127-7	320-109128-1	320-109128-2
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<84
11CI-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<180
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<310
9CI-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<30
DONA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<160
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<110
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<150
Perfluorobutane Sulfonic Acid	4.8	4.3	5.6	4.8	5.0	2.8	<25
Perfluorobutanoic Acid	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0	<5.0 UJ	<300
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<24
Perfluoroheptanoic Acid	3.4	2.6	3.1	3.1	3.3	2.2	68
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0 UJ	<2.0	<2.0	<110
Perfluorohexane Sulfonic Acid	3.2	2.7	3.2	3.0	3.4	<2.0	<71
Perfluorohexanoic Acid	7.5	6.2	7.2	7.4	7.7	2.2	<73
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<46
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<34
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0 UJ	<2.0 UJ	<2.0	<120
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<38
Perfluoropentanoic Acid	6.9	5.8	6.9	6.7	6.7	7.6	360
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<91
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<160
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<140
PFOA	7.2	6.5	6.8	6.9	7.5	4.2	<110
PFOS	12	11	12	12	12	<2.0	<68

**TABLE ATT1-11
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	LOCK-DAM SEEP	OLDOF-1	OUTFALL 002	RIVER WATER INTAKE 2	SEEP-A-EFF	SEEP-B-EFF	SEEP-C-EFF
Field Sample ID	CAPIQ24-LOCK-DAM-SEEP-012424-D	CAPIQ24-OLDOF-1B-24-012524	CAPIQ24-OUTFALL-002-24-012524	RIVER-WATER-INTAKE2-24-012524	CAPIQ24-SEEP-A-EFF-24-012524	CAPIQ24-SEEP-B-EFF-24-012624	CAPIQ24-SEEP-C-EFF-24-012524
Sample Date	1/24/2024	1/25/2024	1/25/2024	1/25/2024	1/25/2024	1/26/2024	1/25/2024
QA/QC	Field Duplicate						
Sample Matrix	LIQUID	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
Sample Delivery Group (SDG)	320-109128-3	320-109127-1	320-109127-1	320-109127-1	320-109127-1	320-109219-1	320-109127-1
Lab Sample ID	320-109128-3	320-109127-6	320-109127-5	320-109127-2	320-109127-3	320-109219-1	320-109127-4
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<84 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11CI-PF3OUdS	<40 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180 UJ	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<310 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
9CI-PF3ONS	<30 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
DONA	<50 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<54 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<25 UJ	<2.0	4.8	4.6	<2.0	<2.0	<2.0
Perfluorobutanoic Acid	<300 UJ	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<40 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<39 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<69 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<24 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	75 J	<2.0	3.1	2.9	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<110 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<71 UJ	<2.0	2.9	2.8	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<73 UJ	<2.0	7.3	7.4	<2.0	<2.0	<2.0
Perfluorononanesulfonic Acid	<46 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<34 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<120 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0	<2.0 UJ
Perfluorooctane Sulfonamide	<120 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<38 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	430 J	6.7	7.2	6.9	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<91 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<160 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<140 UJ	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<110 UJ	<2.0	6.9	6.4	<2.0	<2.0	<2.0
PFOS	<68 UJ	<2.0	9.9	8.9	<2.0	<2.0	<2.0

**TABLE ATT1-11
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-D-EFF	WC-6	EB	EB
Field Sample ID	CAP1Q24-SEEP-D-EFF-24-012624	CAP1Q24-WC-6-24-012524	CAP1Q24-EQBLK-IS-012524	CAP1Q24-EQBLK-PP-012524
Sample Date	1/26/2024	1/25/2024	1/25/2024	1/25/2024
QA/QC			Equipment Blank	Equipment Blank
Sample Matrix	Liquid	Liquid	LIQUID	LIQUID
Sample Delivery Group (SDG)	320-109219-1	320-109127-1	320-109127-1	320-109127-1
Lab Sample ID	320-109219-2	320-109127-1	320-109127-9	320-109127-8
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<2.0	7.3	<2.0	<2.0
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	2.8	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0 UJ	<2.0 UJ	<2.0 UJ
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	6.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	4.6	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0

Notes:
Bold - Analyte detected above associated reporting limit
J - Analyte detected. Reported value may not be accurate or precise
UJ - Analyte not detected. Reporting limit may not be accurate or precise.
 ng/L - nanograms per liter
 QA/QC - Quality assurance/ quality control
 < - Analyte not detected above associated reporting limit.
 -- - Not measured / Not Applicable

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits	Floodplain Deposits	Black Creek Aquifer
Location ID	BLADEN-1DR	LTW-01	LTW-02	LTW-03	LTW-04	LTW-05
Field Sample ID	CAP1Q24-BLADEN-1DR-011524	CAP1Q24-LTW-01-011724	CAP1Q24-LTW-02-011724	CAP1Q24-LTW-03-013124	CAP1Q24-LTW-04-011624	CAP1Q24-LTW-05-011524
Sample Date	1/15/2024	1/17/2024	1/17/2024	1/31/2024	1/16/2024	1/15/2024
QA/QC						
Sample Delivery Group (SDG)	320-108762-1	320-109020-1	320-109020-1	320-109381-1	320-108762-1	320-108762-1
Lab Sample ID	320-108762-10	320-109020-1	320-109020-2	320-109381-7	320-108762-5	320-108762-9
537 Mod (ng/L)						
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84	<84	<84
11Cl-PF3OUdS	<40	<40	<40	<40	<40	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<58	<58	<58	<58	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<30	<30	<30	<30	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180	<180	<180
6:2 Fluorotelomer sulfonate	<310	<310	<310	<310	<310	<310
9Cl-PF3ONS	<30	<30	<30	<30	<30	<30
DONA	<50	<50	<50	<50	<50	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<54	<54	<54	<54	<54	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<150	<150	<150	<150	<150
Perfluorobutane Sulfonic Acid	<25	<25	<25	<25	<25	<25
Perfluorobutanoic Acid	<300	<300	<300	<300	<300	420
Perfluorodecane Sulfonic Acid	<40	<40	<40	<40	<40	<40
Perfluorodecanoic Acid	<39	<39	<39	<39	<39	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120	<120	<120
Perfluorododecanoic Acid	<69	<69	<69	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<24	<24	<24	<24	<24
Perfluoroheptanoic Acid	<31	40	<31	<31	68	310
Perfluorohexadecanoic Acid (PFHxDA)	<110	<110	<110	<110	<110	<110
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71	<71	<71
Perfluorohexanoic Acid	<73	<73	<73	<73	<73	99
Perfluorononanesulfonic Acid	<46	<46	<46	<46	<46	<46
Perfluorononanoic Acid	<34	<34	<34	<34	<34	<34
Perfluorooctadecanoic Acid	<120	<120	<120	<120	<120	<120
Perfluorooctane Sulfonamide	<120	<120	<120	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<38	<38	<38	<38	<38
Perfluoropentanoic Acid	<61	220	320	560 J	1,100	2,700
Perfluorotetradecanoic Acid	<91	<91	<91	<91	<91	<91
Perfluorotridecanoic Acid	<160	<160	<160	<160	<160	<160
Perfluoroundecanoic Acid	<140	<140	<140	<140	<140	<140
PFOA	<110	<110	<110	<110	<110	<110
PFOS	<68	<68	<68	<68	<68	<68

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	OW-28	OW-33	PIW-1S	PIW-1D	PIW-3D	PIW-7D
Field Sample ID	CAP4Q23-OW-28-011824	CAP1Q24-OW-33-013024	CAP1Q24-PIW-1S-011624	CAP1Q24-PIW-1D-012224	CAP1Q24-PIW-3D-011824	CAP1Q24-PIW-7D-011524-D
Sample Date	01/18/2024	01/30/2024	1/16/2024	1/22/2024	1/18/2024	1/15/2024
QA/QC						Field Duplicate
Sample Delivery Group (SDG)	320-109020-1	320-109381-1	320-108762-1	320-109019-1	320-109020-1	320-108762-1
Lab Sample ID	320-109020-9	320-109381-5	320-108762-7	320-109019-1	320-109020-7	320-108762-2
537 Mod (ng/L)						
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84	<84	<84
11Cl-PF3OUdS	<40	<40	<40	<40	<40	<40
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<58	<58	<58	<58	<58
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<30	<30	<30	<30	<30
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180	<180	<180
6:2 Fluorotelomer sulfonate	880	<310	<310	1,200	<310	<310 UJ
9Cl-PF3ONS	<30	<30	<30	<30	<30	<30
DONA	<50	<50	<50	<50	<50	<50
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<54	<54	<54	<54	<54	<54
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<150	<150	<150	<150	<150
Perfluorobutane Sulfonic Acid	<25	<25	<25	<25	<25	<25
Perfluorobutanoic Acid	<300	<300	<300	<300	<300	<300
Perfluorodecane Sulfonic Acid	<40	<40	<40	<40	<40	<40
Perfluorodecanoic Acid	<39	<39	<39	<39	<39	<39
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120	<120	<120
Perfluorododecanoic Acid	<69	<69	<69	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<24	<24	<24	<24	<24
Perfluoroheptanoic Acid	<31	<31	<31	<31	44	100
Perfluorohexadecanoic Acid (PFHxDA)	<110	<110	<110	<110	<110	<110
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71	<71	<71
Perfluorohexanoic Acid	<73	<73	<73	<73	<73	<73
Perfluorononanesulfonic Acid	<46	<46	<46	<46	<46	<46
Perfluorononanoic Acid	<34	<34	<34	<34	<34	<34
Perfluorooctadecanoic Acid	<120	<120	<120	<120	<120	<120
Perfluorooctane Sulfonamide	<120	<120	<120	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<38	<38	<38	<38	<38
Perfluoropentanoic Acid	69	120 J	<61	150	250	1,300
Perfluorotetradecanoic Acid	<91	<91	<91	<91	<91	<91
Perfluorotridecanoic Acid	<160	<160	<160	<160	<160	<160
Perfluoroundecanoic Acid	<140	<140	<140	<140	<140	<140
PFOA	<110	<110	<110	<110	<110	<110
PFOS	<68	<68	<68	<68	<68	<68

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Floodplain Deposits	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer
Location ID	PIW-7S	PW-04	PW-04	PW-06	PW-07	PW-09
Field Sample ID	CAP1Q24-PIW-7S-011524	CAP1Q24-PW-04-011724	CAP1Q24-PW-04-011724-Z	CAP1Q24-PW-06-011524	CAP1Q24-PW-07-020724	CAP1Q24-PW-09-012324
Sample Date	1/15/2024	1/17/2024	1/17/2024	1/15/2024	2/7/2024	1/23/2024
QA/QC						
Sample Delivery Group (SDG)	320-108762-1	320-109020-1	320-109020-1	320-108762-1	320-109816-1	320-109223-1
Lab Sample ID	320-108762-3	320-109020-5	320-109020-6	320-108762-8	320-109816-1	320-109223-1
537 Mod (ng/L)						
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84	<84 UJ	<2.0
11Cl-PF3OUdS	<40	<40	<40	<40	<40 UJ	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<58	<58	<58	<58 UJ	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	<30	<30	<30	<30 UJ	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110	<110 UJ	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180	<180 UJ	<4.0
6:2 Fluorotelomer sulfonate	<310	<310	<310	<310 UJ	<310 UJ	<5.0
9Cl-PF3ONS	<30	<30	<30	<30	<30 UJ	<2.0
DONA	<50	<50	<50	<50	<50 UJ	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160	<160 UJ	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110	<110 UJ	<2.0
N-methyl perfluoro-1-octanesulfonamide	<54	<54	<54	<54	<54 UJ	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<150	<150	<150	<150 UJ	<5.0
Perfluorobutane Sulfonic Acid	<25	<25	<25	<25	<25 UJ	<2.0
Perfluorobutanoic Acid	<300	<300	<300	<300	<300 UJ	<5.0 UJ
Perfluorodecane Sulfonic Acid	<40	<40	<40	<40	<40 UJ	<2.0
Perfluorodecanoic Acid	<39	<39	<39	<39	<39 UJ	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120	<120 UJ	<2.0
Perfluorododecanoic Acid	<69	<69	<69	<69	<69 UJ	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<24	<24	<24	<24 UJ	<2.0
Perfluoroheptanoic Acid	56	<31	<31	<31	<31 UJ	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<110	<110	<110	<110	<110 UJ	<2.0
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71	<71 UJ	<2.0
Perfluorohexanoic Acid	<73	<73	<73	<73	<73 UJ	<2.0
Perfluorononanesulfonic Acid	<46	<46	<46	<46	<46 UJ	<2.0
Perfluorononanoic Acid	<34	<34	<34	<34	<34 UJ	<2.0
Perfluorooctadecanoic Acid	<120	<120	<120	<120	<120 UJ	<2.0
Perfluorooctane Sulfonamide	<120	<120	<120	<120	<120 UJ	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<38	<38	<38	<38 UJ	<2.0
Perfluoropentanoic Acid	580	<61	<61	<61	<61 UJ	<2.0
Perfluorotetradecanoic Acid	<91	<91	<91	<91	<91 UJ	<2.0
Perfluorotridecanoic Acid	<160	<160	<160	<160	<160 UJ	<2.0
Perfluoroundecanoic Acid	<140	<140	<140	<140	<140 UJ	<2.0
PFOA	<110	<110	<110	<110	<110 UJ	<2.0
PFOS	<68	<68	<68	<68	<68 UJ	<2.0

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	Black Creek Aquifer	Black Creek Aquifer	Surficial Aquifer	Surficial Aquifer	Black Creek Aquifer	--
Location ID	PW-09	PZ-22	SMW-10	SMW-11	SMW-12	EB
Field Sample ID	CAP1Q24-PW-09-012324-D	CAP1Q24-PZ-22-011624	CAP1Q24-SMW-10-011724	CAP1Q24-SMW-11-011824	CAP1Q24-SMW-12-011624	CAP1Q24-EQBLK-PP-011724
Sample Date	1/23/2024	1/16/2024	1/17/2024	1/18/2024	1/16/2024	1/17/2024
QA/QC	Field Duplicate					Equipment Blank
Sample Delivery Group (SDG)	320-109223-1	320-108762-1	320-109020-1	320-109020-1	320-108762-1	320-108762-1
Lab Sample ID	320-109223-2	320-108762-6	320-109020-4	320-109020-8	320-108762-4	320-108762-11
537 Mod (ng/L)						
10:2 Fluorotelomer sulfonate	<2.0	<84	<2.0	<84	<84	<2.0
11Cl-PF3OUdS	<2.0	<40	<2.0	<40	<40	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<58	<2.0	<58	<58	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<30	<2.0	<30	<30	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<110	<2.0	<110	<110	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<180	<4.0	<180	<180	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<310 UJ	<5.0	<310	<310	<5.0
9Cl-PF3ONS	<2.0	<30	<2.0	<30	<30	<2.0
DONA	<2.0	<50	<2.0	<50	<50	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<160	<5.0	<160	<160	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<110	<2.0	<110	<110	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<54	<2.0	<54	<54	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<150	<5.0	<150	<150	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<25	<2.0	<25	<25	<2.0
Perfluorobutanoic Acid	<5.0	<300	<5.0	<300	<300	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<40	<2.0	<40	<40	<2.0
Perfluorodecanoic Acid	<2.0	<39	<2.0	<39	<39	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<120	<2.0	<120	<120	<2.0
Perfluorododecanoic Acid	<2.0	<69	<2.0	<69	<69	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<24	<2.0	<24	<24	<2.0
Perfluoroheptanoic Acid	<2.0	36	<2.0	32	<31	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<110	<2.0	<110	<110	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<71	<2.0	<71	<71	<2.0
Perfluorohexanoic Acid	<2.0	<73	<2.0	<73	<73	<2.0
Perfluorononanesulfonic Acid	<2.0	<46	<2.0	<46	<46	<2.0
Perfluorononanoic Acid	<2.0	<34	<2.0	<34	<34	<2.0
Perfluorooctadecanoic Acid	<2.0	<120	<2.0	<120	<120	<2.0
Perfluorooctane Sulfonamide	<2.0	<120	<2.0	<120	<120	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<38	<2.0	<38	<38	<2.0
Perfluoropentanoic Acid	<2.0	880	<2.0	<61	83	<2.0
Perfluorotetradecanoic Acid	<2.0	<91	<2.0	<91	<91	<2.0
Perfluorotridecanoic Acid	<2.0	<160	<2.0	<160	<160	<2.0
Perfluoroundecanoic Acid	<2.0	<140	<2.0	<140	<140	<2.0
PFOA	<2.0	<110	<2.0	230	<110	<2.0
PFOS	<2.0	<68	<2.0	<68	<68	<2.0

**TABLE ATT1-12
GROUNDWATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Water Bearing Unit ¹	--	--	--	--
Location ID	EB	EB	EB	EB
Field Sample ID	CAP1Q24-EQBLK-BAILER-012224	CAP1Q24-EQBLK-BAILER-012224-Z	CAP1Q24-EQBLK-DV-012224	CAP1Q24-EQBLK-BP-020224
Sample Date	1/22/2024	1/22/2024	1/22/2024	2/2/2024
QA/QC	Equipment Blank	Equipment Blank	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-109019-1	320-109019-1	320-109019-1	320-109475-1
Lab Sample ID	320-109019-6	320-109019-7	320-109019-5	320-109475-3
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0 UJ
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	<2.0
PFOS	<2.0	<2.0	<2.0	<2.0

Notes:
 1 - Refers to the primary aquifer unit that the well screen is estimated to be screened within.
 Bold - Analyte detected above associated reporting limit.
 J - Analyte detected. Reported value may not be accurate or precise.
 UJ - Analyte not detected. Reporting limit may not be accurate or precise.
 ng/L - nanograms per liter
 QA/QC - Quality assurance/ quality control
 SDG - Sample Delivery Group
 "-Z" in Sample ID denotes field filtration
 < - Analyte not detected above associated reporting limit. --
 - Not measured / Not Applicable

TABLE ATT1-13
TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRADIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	1	2	4	4A
Pathway Name	Upstream River Water and Groundwater	Willis Creek	Outfall 002 ³	Stormwater Treatment System ⁴
Flow (MG)	7,009	6	16	--
Program	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24	STS Compliance Sampling
Location ID	CFR-MILE-76	WC-6	OUTFALL 002	STS DISCHARGE
Field Sample ID	CAP1Q24-CFR-RM-76-012424	CAP1Q24-WC-6-24-012524	CAP1Q24-OUTFALL-002-24-012524	--
Sample Date and Time ²	01/24/24	01/25/24	01/25/24	--
Sample Delivery Group (SDG)	320-109128-1	320-109127-1	320-109127-1	--
Lab Sample ID	320-109128-4	320-109127-1	320-109127-5	--
Sample Type	Grab	Composite	Composite	--
<i>Table 3+ Lab SOP Mass Discharge⁶ (mg/s)</i>				
HFPO-DA	ND	0.04	0.01	--
PFMOAA	ND	0.16	2.8E-03	--
PFO2HxA	ND	0.07	1.7E-03	--
PFO3OA	ND	0.01	ND	--
PFO4DA	ND	1.6E-03	ND	--
PFO5DA	ND	ND	ND	--
PMPA	0.95	0.06	9.8E-04	--
PEPA	ND	0.01	ND	--
PS Acid	ND	ND	ND	--
Hydro-PS Acid	ND	2.0E-03	ND	--
R-PSDA	ND	7.9E-03	0.01	--
Hydrolyzed PSDA	ND	0.03	0.02	--
R-PSDCA	ND	ND	ND	--
NVHOS, Acid Form	ND	3.2E-03	ND	--
EVE Acid	ND	ND	ND	--
Hydro-EVE Acid	ND	8.4E-04	ND	--
R-EVE	ND	3.9E-03	ND	--
PES	ND	ND	ND	--
PFECA B	ND	ND	ND	--
PFECA-G	ND	ND	ND	--
PFPrA	5.83	0.11	7.0E-03	--
Total Attachment C Mass Discharge^{7,8}	ND	0.34	0.02	--
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	ND	0.37	0.03	--
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	5.83	0.47	0.03	--
Total Table 3+ Mass Discharge (21 Compounds)⁷	5.83	0.50	0.07	--

TABLE ATT1-13

TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRADIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	5	6A	6B	6C
Pathway Name	Onsite Groundwater ⁵	Seep A	Seep B	Seep C
Flow (MG)	--	0.05	0.02	0.03
Program	--	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24
Location ID	--	SEEP-A-EFF	SEEP-B-EFF	SEEP-C-EFF
Field Sample ID	--	CAP1Q24-SEEP-A-EFF-24-012524	CAP1Q24-SEEP-B-EFF-24-012624	CAP1Q24-SEEP-C-EFF-24-012524
Sample Date and Time ²	--	01/25/24	01/26/24	01/25/24
Sample Delivery Group (SDG)	--	320-109127-1	320-109219-1	320-109127-1
Lab Sample ID	--	320-109127-3	320-109219-1	320-109127-4
Sample Type	--	Composite	Composite	Composite
Table 3+ Lab SOP Mass Discharge⁶ (mg/s)				
HFPO-DA	3.7E-03	ND	5.2E-06	9.4E-06
PFMOAA	0.02	4.4E-05	5.7E-05	5.2E-05
PFO2HxA	0.01	5.8E-06	7.2E-06	1.1E-05
PFO3OA	1.6E-03	ND	ND	ND
PFO4DA	1.4E-04	ND	ND	ND
PFO5DA	ND	ND	ND	ND
PMPA	3.1E-03	1.4E-05	1.6E-05	1.8E-05
PEPA	1.1E-03	ND	3.9E-06	ND
PS Acid	ND	ND	ND	ND
Hydro-PS Acid	3.6E-05	ND	ND	ND
R-PSDA	1.9E-04	ND	ND	ND
Hydrolyzed PSDA	3.2E-04	ND	1.9E-06	ND
R-PSDCA	ND	ND	ND	ND
NVHOS, Acid Form	2.1E-04	ND	ND	ND
EVE Acid	ND	ND	ND	ND
Hydro-EVE Acid	5.6E-05	ND	ND	ND
R-EVE	1.3E-04	ND	ND	ND
PES	ND	ND	ND	ND
PFECA B	ND	ND	ND	ND
PFECA-G	ND	ND	ND	ND
PFPrA	ND	8.4E-05	4.8E-05	1.8E-04
Total Attachment C Mass Discharge^{7,8}	0.04	6.4E-05	8.7E-05	9.1E-05
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	0.04	6.4E-05	8.7E-05	9.1E-05
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	0.05	1.5E-04	1.4E-04	2.7E-04
Total Table 3+ Mass Discharge (21 Compounds)⁷	0.05	1.5E-04	1.4E-04	2.7E-04

TABLE ATT1-13

TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRADIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	6D	6E	6F	7
Pathway Name	Seep D	Lock and Dam Seep	Lock and Dam North	Outfall 003 Stream
Flow (MG)	0.01	0.02	--	0.09
Program	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24	--	CAP SW Sampling 1Q24
Location ID	SEEP-D-EFF	Lock-Dam Seep	Lock-Dam North	OLDOF-1
Field Sample ID	CAP1Q24-SEEP-D-EFF-24-012624	CAP1Q24-LOCK-DAM-SEEP-012424	--	CAP1Q24-OLDOF-1B-24-012524
Sample Date and Time ²	01/26/24	01/24/24	--	01/25/24
Sample Delivery Group (SDG)	320-109219-1	320-109128-1	--	320-109127-1
Lab Sample ID	320-109219-2	320-109128-2	--	320-109127-6
Sample Type	Composite	Grab	Grab	Composite
<i>Table 3+ Lab SOP Mass Discharge⁶ (mg/s)</i>	--			
HFPO-DA	ND	4.8E-03	ND	1.1E-03
PFMOAA	6.8E-06	0.04	ND	4.1E-03
PFO2HxA	ND	0.02	ND	1.8E-03
PFO3OA	ND	8.1E-03	ND	4.5E-04
PFO4DA	ND	1.1E-03	ND	1.7E-04
PFO5DA	ND	1.1E-04	ND	1.3E-04
PMPA	6.5E-07	4.3E-03	ND	6.2E-04
PEPA	ND	1.7E-03	ND	2.1E-04
PS Acid	ND	ND	ND	ND
Hydro-PS Acid	ND	1.2E-04	ND	6.2E-05
R-PSDA	ND	5.1E-04	ND	7.8E-05
Hydrolyzed PSDA	ND	3.2E-04	ND	1.5E-04
R-PSDCA	ND	ND	ND	ND
NVHOS, Acid Form	ND	6.5E-04	ND	7.8E-05
EVE Acid	ND	ND	ND	ND
Hydro-EVE Acid	ND	1.0E-04	ND	3.1E-05
R-EVE	ND	1.3E-04	ND	5.3E-05
PES	ND	ND	ND	ND
PFECA B	ND	ND	ND	ND
PFECA-G	ND	ND	ND	ND
PFPrA	7.3E-06	0.01	ND	2.4E-03
Total Attachment C Mass Discharge^{7,8}	7.3E-06	0.07	ND	0.01
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	7.3E-06	0.08	ND	0.01
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	1.5E-05	0.09	ND	0.01
Total Table 3+ Mass Discharge (21 Compounds)⁷	1.5E-05	0.10	ND	0.01

TABLE 3+ PFAS MASS DISCHARGE BY PATHWAY DOWNGRAIENT OF REMEDIES (AFTER REMEDIES)
Chemours Fayetteville Works, North Carolina

Pathway Number ¹	9	Sum of All Pathways
Pathway Name	Georgia Branch Creek	
Flow (MG)	12	
Program	CAP SW Sampling 1Q24	
Location ID	GBC-5	
Field Sample ID	CAP1Q24-GBC-5-012424	
Sample Date and Time ²	01/24/24	
Sample Delivery Group (SDG)	320-109128-1	
Lab Sample ID	320-109128-1	
Sample Type	Grab	
Table 3+ Lab SOP Mass Discharge⁶ (mg/s)		
HFPO-DA	0.19	0.25
PFMOAA	0.04	0.27
PFO2HxA	0.18	0.27
PFO3OA	0.02	0.04
PFO4DA	9.4E-03	0.01
PFO5DA	1.3E-03	1.5E-03
PMPA	0.25	1.27
PEPA	0.08	0.10
PS Acid	ND	ND
Hydro-PS Acid	0.01	0.02
R-PSDA	0.04	0.06
Hydrolyzed PSDA	ND	0.04
R-PSDCA	ND	ND
NVHOS, Acid Form	1.9E-03	6.0E-03
EVE Acid	ND	ND
Hydro-EVE Acid	ND	1.0E-03
R-EVE	0.01	0.02
PES	ND	ND
PFECA B	ND	ND
PFECA-G	ND	ND
PFPrA	0.29	ND
Total Attachment C Mass Discharge^{7,8}	0.79	1.28
Total Table 3+ Mass Discharge (17 compounds)^{7,9}	0.79	1.32
Total Table 3+ Mass Discharge (18 compounds)^{7,10}	1.05	7.55
Total Table 3+ Mass Discharge (21 Compounds)⁷	1.10	7.67

Notes:

1 - Pathway 3 (Aerial Deposition on Water Features) and Pathway 8 (Offsite Adjacent and Downstream Groundwater) are not included in this table. Loading from Pathway 3 was estimated using relative concentration ratios from offsite wells, and loading from Pathway 8 was estimated by scaling to the upstream offsite groundwater loading. Further details are provided in Attachment 2 and Cape Fear River PFAS Mass Loading Calculation Protocol Version 2 (Geosyntec, 2020a).

2 - For composite samples, the end of the composite sample time period is listed as the sample date.

3 - Total Table 3+ concentrations at the Intake River Water at the Facility are subtracted from Outfall 002 concentrations to compute the mass discharge at Outfall 002.

4 - The stormwater treatment system treats PFAS originating from Stormwater in the Monomers/IXM area that would otherwise flow to Outfall 002 during storm events. When stormwater is being treated by the stormwater treatment system, HFPO-DA, PFMOAA, and PMPA concentrations are measured in the stormwater treatment system influent and effluent flows. The concentrations and mass loads reported here are the sum of these 3 compounds in the stormwater treatment system influent flow.

5 - Due to transient conditions as a result of the groundwater remedy installation and commissioning, gradient measurements are impacted from these activities and should be considered estimates.

6 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Tables A5 and A6, and flow volumes reported in Table A2.

7 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table A5 and Table A6, which are rounded to two significant figures.

8 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).

9 - Total Table 3+ (17 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

10 - Total Table 3+ (17 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, and R-EVE.

Bold - Analyte detected above associated reporting limit

SOP - Standard Operating Procedure

MG - million gallons ; mg/s - milligrams per second

ND - Analyte not detected above associated reporting limit.

Attachment ATT2

Direct Aerial Deposition on Cape Fear River

Attachment ATT2: Supporting Calculations – Direct Aerial Deposition on Cape Fear River

Introduction and Objective

Nine pathways (Table A1 of Appendix A) were identified as potentially contributing to observed Cape Fear River per- and polyfluoroalkyl substances (PFAS) concentrations. These pathways include direct PFAS aerial deposition to the Cape Fear River. This pathway was identified as Transport Pathway Number 3 in the PFAS mass loading model. The mass discharge (mass per unit time measured in milligrams per second [mg/s]) from direct aerial deposition of PFAS to the Cape Fear River was estimated by scaling air deposition modeling results for Hexafluoropropylene oxide dimer acid (HFPO-DA; ERM, 2018). The objective of the supporting calculations presented in this appendix is to estimate aerially deposited PFAS directly on the Cape Fear River during a mass loading event.

Approach

HFPO-DA mass loading directly to the Cape Fear River was estimated using the reported aerial extent and deposition contours modeled for October 2018 (ERM, 2018). As depicted in Table ATT2-1, the HFPO-DA air loading data (micrograms per meters squared [$\mu\text{g}/\text{m}^2$]) provided from ERM (2018) was used to calculate the net hourly deposition rate (nanograms per meters squared per hour [$\text{ng}/\text{m}^2/\text{hr}$]) using the Equation 1 below:

Equation 1: Net Hourly Deposition Rate

$$DR_{NET} = \frac{ML_{AIR}}{t_{AIR}}$$

where,

DR_{NET} = Net hourly deposition rate with units of mass per area per time ($\text{M L}^{-2} \text{T}^{-1}$), typically in $\text{ng}/\text{m}^2/\text{hr}$;

ML_{AIR} = Air mass loading of HFPO-DA with units of mass per area (M L^{-2}), typically $\mu\text{g}/\text{m}^2$;
and

t_{AIR} = Time that air mass loading was modeled (T), typically hours.

Depositional area along the river was calculated using available data for river width and computed river lengths where deposition contours were modeled. Eighteen sections (Figure ATT 2-1) provided from FEMA (2007) were selected along the Cape Fear River to measure the average river width (m). As depicted in Figures ATT2-2 through ATT2-6, sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 $\mu\text{g}/\text{m}^2$ were selected, and the length of the Cape Fear River along each of the sections was measured. The average river width calculated in Table ATT2-2 and section lengths from Figures ATT2-2 through ATT2-6 were used to calculate section areas (m^2) as described in Equation 2 below:

**Attachment ATT2: Supporting Calculations – Direct Aerial
Deposition on Cape Fear River**

Equation 2: Cape Fear River Surface Area for Each Section

$$A_s = L_s \times W_s$$

where,

A_s = Total spatial area over which deposition occurs between contours (L^2) in section “s”, typically in m^2 ;

s = Section along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 $\mu g/m^2$ (five sections in total);

L = Total length of river within section “s”, typically in m; and

W_s = Average river width in section “s”, typically in m.

Start and end deposition rates ($ng/m^2/hr$) for each section along the Cape Fear River will be estimated based on the deposition contours and corresponding net hourly deposition rate (Table ATT2-1); a combined deposition rate for each section will be calculated as the average of the start and end deposition rates. River velocity (meters per hour [m/hr]) will be estimated from measured flow rates from USGS (2024) and the calculated river cross sectional area. Section lengths will be used to calculate HFPO-DA travel time based on the river velocities in Table ATT2-3. The combined deposition rate ($ng/m^2/hr$) from Table ATT2-1, section area (m^2), and travel time (hr) will be used to calculate mass HFPO-DA deposited (ng) as follows in **Equation 3** below.

Equation 3: Total HFPO-DA Mass Discharge to Cape Fear River

$$MD_{HFPO-DA} = \sum_{s=1}^S DR_{AVG,s} \times A_s \times t_s$$

where,

$MD_{HFPO-DA}$ = total mass discharge of HFPO-DA into the river across all sections, with units of mass per time ($M T^{-1}$), typically mg/s ;

s = section along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 $\mu g/m^2$;

S = total number of sections along the Cape Fear River with HFPO-DA concentrations contours ranging from 40 to 640 $\mu g/m^2$, five in total;

$DR_{AVG,s}$ = average deposition rate based from the ERM model (2018) in section “s”, typically in $ng/m^2/hr$;

A_s = spatial area over which deposition occurs in section “s”, typically in m^2 ; and

t_s = travel time through the river length in section “s”, typically in hr.

As reported in the Corrective Action Plan (Geosyntec, 2019), ten offsite groundwater seeps south of Outfall 003 (Seeps E to M) were identified on the west bank of the Cape Fear River south of

**Attachment ATT2: Supporting Calculations – Direct Aerial
Deposition on Cape Fear River**

the Site. Seeps E to M were sampled in October 2019 and Seeps E to K were sampled in March 2020 and analyzed for PFAS. The results of both sampling events indicate that Seeps E to M show an aerial deposition PFAS signature (concentrations decrease in seeps more distant from the Site). Accordingly, the offsite seep data were used to build a relationship between HFPO-DA and other PFAS compounds (Figure ATT 2-7). A scaling factor (Table ATT2-4) was used to estimate mass discharge of Total PFAS compounds to the Cape Fear River as shown in Equation 4. Table ATT2-5 shows the estimated mass discharges of HFPO-DA and Total PFAS compounds to the Cape Fear River.

Equation 4: Total PFAS Mass Discharge to Cape Fear River

$$MD_{PFAS} = MD_{HFPO-DA} \times R$$

where,

MD_{PFAS} = total mass discharge of PFAS compounds into the river, typically in mg/s;

$MD_{HFPO-DA}$ = total mass discharge of HFPO-DA into the river, typically in mg/s; and

R = average ratio of measured HFPO-DA to PFAS compounds across the nine offsite seeps.

References

ERM, 2018. Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Federal Emergency Management Agency (FEMA), 2007. "A Report of Flood Hazards in Bladen County, North Carolina and Incorporated Areas." (2007) Flood Insurance Study, Federal Emergency Management Agency. North Carolina Flood Risk Information System Engineering Model. Cape Fear River ADJ. HEC-RAS 5.0.7.

Geosyntec, 2019. Corrective Action Plan. Chemours Fayetteville Works. December 31, 2019.

USGS, 2024. USGS 02105500 Cape Fear River at Wilm O Huske Lock near Tarheel, NC. Available at: https://waterdata.usgs.gov/nwis/uv?site_no=02105500

TABLE ATT2-1
NET HOURLY HFPO-DA DEPOSITION RATE
Chemours Fayetteville Works, North Carolina

Air Loading ($\mu\text{g}/\text{m}^2$)	Air Loading (ng/m^2)	Time (year)	Time (hour)	Net Hourly Deposition Rate ($\text{ng}/\text{m}^2/\text{hr}$)
40	40,000	1	8,760	4.6
80	80,000	1	8,760	9.1
160	160,000	1	8,760	18.3
320	320,000	1	8,760	36.5
640	640,000	1	8,760	73.1

Notes:

1. HFPO-DA model values are from ERM (2018). Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.
2. Air deposition contours are shown in Figures ATT2 through ATT6.
3. Net hourly deposition rates are used in the mass discharge calculations, Table ATT2-5.

Abbreviations:

- $\mu\text{g}/\text{m}^2$: micrograms per meter square.
 ng/L : nanograms per liter.
 $\text{ng}/\text{m}^2/\text{hr}$: nanograms per meter square per hour.

**TABLE ATT2-2
ESTIMATION OF CAPE FEAR RIVER AVERAGE WIDTH
Chemours Fayetteville Works, North Carolina**

Cross section ID*	HEC-RAS Model Point ID**	Easting (ft)	Northing (ft)	Cape Fear River Width at Cross Section (m)
619506	0	2,052,368	399,949	84
	1	2,052,366	399,949	
	2	2,052,334	399,946	
	3	2,052,254	399,938	
	4	2,052,155	399,928	
	5	2,052,095	399,922	
	6	2,052,093	399,922	
614224	18	2,053,460	394,655	163
	19	2,053,436	394,649	
	20	2,053,281	394,613	
	21	2,053,277	394,612	
	22	2,053,180	394,590	
	23	2,053,079	394,566	
	24	2,052,977	394,543	
	25	2,052,949	394,536	
616535	7	2,053,113	396,901	91
	8	2,053,070	396,895	
	9	2,052,990	396,886	
	10	2,052,891	396,874	
	11	2,052,831	396,867	
	12	2,052,815	396,865	
613542	21	2,053,373	393,937	89
	22	2,053,349	393,931	
	23	2,053,271	393,913	
	24	2,053,174	393,891	
	25	2,053,115	393,877	
614517	26	2,053,081	393,869	76***
	13	2,053,209	394,897	
	14	2,053,130	394,878	
	15	2,053,032	394,854	
	16	2,052,974	394,840	
610240	17	2,052,961	394,837	60***
	31	2,053,769	390,652	
	32	2,053,729	390,645	
	33	2,053,643	390,630	
	34	2,053,602	390,623	
612082	35	2,053,572	390,618	72
	27	2,053,560	392,482	
	28	2,053,430	392,455	
	29	2,053,370	392,443	
606667	30	2,053,322	392,433	101
	1271	2,054,059	387,249	
	1272	2,054,022	387,215	
	1273	2,053,995	387,190	
	1274	2,053,946	387,145	
	1275	2,053,861	387,067	
	1276	2,053,812	387,023	
	1277	2,053,801	387,012	
1278	2,053,727	386,945		
608468	1193	2,053,950	388,876	107
	1194	2,053,902	388,874	
	1195	2,053,843	388,871	
	1196	2,053,717	388,866	
	1197	2,053,659	388,864	
	1198	2,053,650	388,863	
606667	1199	2,053,600	388,861	101
	1271	2,054,059	387,249	
	1272	2,054,022	387,215	
	1273	2,053,995	387,190	
	1274	2,053,946	387,145	
	1275	2,053,861	387,067	
	1276	2,053,812	387,023	
1277	2,053,801	387,012		
	1278	2,053,727	386,945	

TABLE ATT2-2
ESTIMATION OF CAPE FEAR RIVER AVERAGE WIDTH
Chemours Fayetteville Works, North Carolina

Cross section ID*	HEC-RAS Model Point ID**	Easting (ft)	Northing (ft)	Cape Fear River Width at Cross Section (m)
600052	1498	2,057,643	382,269	87
	1499	2,057,610	382,246	
	1500	2,057,556	382,208	
	1501	2,057,461	382,141	
	1502	2,057,408	382,103	
	1503	2,057,398	382,096	
	1504	2,057,358	382,067	
604474	1331	2,055,879	386,154	95
	1332	2,055,812	386,120	
	1333	2,055,753	386,090	
	1334	2,055,647	386,037	
	1335	2,055,588	386,007	
	1336	2,055,566	385,996	
597968	1565	2,058,901	380,593	116
	1566	2,058,830	380,549	
	1567	2,058,774	380,515	
	1568	2,058,675	380,453	
	1569	2,058,619	380,418	
	1570	2,058,518	380,356	
602061	1406	2,056,453	383,857	104
	1407	2,056,356	383,798	
	1408	2,056,301	383,763	
	1409	2,056,202	383,702	
	1410	2,056,146	383,667	
	1411	2,056,113	383,647	
594185	1717	2,060,560	377,186	100
	1718	2,060,482	377,157	
	1719	2,060,421	377,134	
	1720	2,060,312	377,094	
	1721	2,060,250	377,071	
	1722	2,060,232	377,065	
596259	1644	2,059,549	379,003	84
	1645	2,059,534	378,996	
	1646	2,059,474	378,970	
	1647	2,059,368	378,923	
	1648	2,059,308	378,896	
	1649	2,059,275	378,881	
587968	2042	2,061,270	371,304	93
	2043	2,061,246	371,290	
	2044	2,061,179	371,252	
	2045	2,061,092	371,203	
	2046	2,061,042	371,174	
	2047	2,060,966	371,131	
591595	1825	2,060,295	374,663	91
	1826	2,060,270	374,661	
	1827	2,060,201	374,658	
	1828	2,060,079	374,653	
	1829	2,060,010	374,650	
	1830	2,059,995	374,649	
590322	1931	2,060,424	373,459	100
	1932	2,060,378	373,442	
	1933	2,060,372	373,439	
	1934	2,060,311	373,416	
	1935	2,060,202	373,376	
	1936	2,060,140	373,353	
	1937	2,060,097	373,336	
Average River Cross Section Width (m) =				99

Notes:

*Cross sections locations are shown in Figure ATT2-1.

**Model point ID: are locations with northing, easting, and river depths provided in the HEC-RAS model.

1 - Data provided from: "A Report of Flood Hazards in Bladen County, North Carolina and Incorporated Areas." RiverADJ. HEC-RAS 5.0.7. (2007) Flood Insurance Study, Federal Emergency Management Agency. North Carolina Flood Risk Information System Engineering Model. Cape Fear RiverADJ. HEC-RAS 5.0.7.

2 - The horizontal datum is North American Datum 1983 projected into North Carolina East State Plane (3200).

3 - The vertical datum is North American Datum 1988 projected into North Carolina East State Plane (3200).

Abbreviations:

ft: feet

m: meter

**TABLE ATT2-3
SUMMARY OF FLOW IN CAPE FEAR RIVER AT WILM O'HUSKE LOCK NR TARHEEL, NC
Chemours Fayetteville Works, North Carolina**

Date	USGS Reported Average Discharge¹ (cfs)	USGS Reported Average Gage Height¹ (ft)	USGS Reported Total Precipitation^{1,2} (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value³	Calculated Total Cross Sectional Area (ft²)	Calculated River Velocity (ft/s)
1/24/2024	10860.63	5.79	0	307,539	323	22	2	6,217	1.7
1/25/2024	9137.81	5.19	0	258,754	323	22	2	6,076	1.5
Average River Velocity:									1.6

Notes:

- 1 - Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2023).
 - 2 - The minimum value recorded by a USGS raingage is 0.01 inches. Anything detected below this threshold is recorded as 0 inches.
 - 3 - Z value is an estimated factor used to compute total cross sectional area from river depth.
- cfs: cubic feet per second
 ft: feet
 ft²: feet squared
 ft/s: feet per second
 L/s: Liter per second
 USGS - United States Geological Survey

TABLE ATT2-4
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA
Chemours Fayetteville Works, North Carolina

Location ID	SEEP-E	SEEP-E	SEEP-F	SEEP-F	SEEP-G	SEEP-G	SEEP-H
Field Sample ID	SEEP-E-0930	Seep E-030420	SEEP-F-0923	Seep F-030420	SEEP-G-0911	Seep G-030420	SEEP-H-0905
Sample Date	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019
QA/QC	--	--	--	--	--	--	--
Sample Delivery Group (SDG)	320-55576-1	2091227	320-55576-1	2091227	320-55576-1	2091227	320-55576-1
Lab Sample ID	320-55576-1	1274949	320-55576-2	1274953	320-55576-3	1274957	320-55576-4
Table 3+ SOP (ng/L)							
HFPO-DA	1,200	950	1,100	1,100	700	730	550
PFMOAA	480 J	390	900	730	190	220	140
PFO2HxA	800	470	810	640	470	410	350
PFO3OA	170	83	130	110	57	56	28
PFO4DA	83	17	7.3	9.1	9	7.9	<2
PFO5DA	46	<2	<2	<2	<2	<2	<2
PMPA	2,300	1,800	2,800	2,100	1,500	1,500	1,200
PEPA	710	600	870	710	490	520	360
PS Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-PS Acid	90	24	9.6	10	22	11	16
R-PSDA	220 J	53 J	92	68 J	79 J	44 J	39 J
Hydrolyzed PSDA	2.1 J	<2	<2.9	<2	<2	<2	<2
R-PSDCA	<2	<2	<2	<2	<2	<2	<2
NVHOS	15	6	12	8	5.4	5	4.3
EVE Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	7.7	2.3	2	<2	<2	<2	<2
R-EVE	76	20	60	40	39	28	21 J
PES	<2	<2	<2.3	<2	<2	<2	<2
PFECA B	<2	<2	<3	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2
Total Attachment C (ng/L)^{1,2}	5,900	4,300	6,600	5,400	3,400	3,500	2,600
Total Table 3+ (17 compounds) (ng/L)^{2,3}	5,900	4,300	6,600	5,400	3,400	3,500	2,600
Ratio of Total Attachment C to HFPO-DA	4.9	4.5	6.0	4.9	4.9	4.8	4.7
Ratio of Total Table 3+ (17 compounds) to HFPO-DA	4.9	4.5	6.0	4.9	4.9	4.8	4.7
Average Ratio of Total Attachment C to HFPO-DA	4.85						
Average Ratio of Total Table 3+ (17 compounds) to HFPO-DA	4.87						

**TABLE ATT2-4
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-H	SEEP-I	SEEP-I	SEEP-J	SEEP-J	SEEP-K	SEEP-K
Field Sample ID	Seep H-030420	SEEP-I-0856	Seep I-030420	SEEP-J-0843	Seep J-030420	SEEP-K-0835	Seep K-030420
Sample Date	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020	10/22/2019	3/4/2020
QA/QC	--	--	--	--	--	--	--
Sample Delivery Group (SDG)	2091227	320-55576-1	2091227	320-55576-1	2091227	320-55576-1	2091227
Lab Sample ID	1274961	320-55576-5	1274965	320-55576-6	1274969	320-55576-7	1274973
Table 3+ SOP (ng/L)							
HFPO-DA	540	570	470	580	250	640	490
PFMOAA	180	130	200	180 J	140	160	210
PFO2HxA	330	300	280	350 J	130	320	230
PFO3OA	30	17	18	120 J	16	41	28
PFO4DA	<2	<2	<2	58	4.7	11	5
PFO5DA	<2	<2	<2	20 J	2.2	4.8	<2
PMPA	1,100	1,200	1,100	810 J	660	1,300	1,000
PEPA	360	390	390	260	200	400	350
PS Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-PS Acid	9.3	12	12	37	6.9	70	16
R-PSDA	30 J	53 J	36	110 J	23	130 J	49
Hydrolyzed PSDA	<2	<2	<2	<2	<2	<2	<2
R-PSDCA	<2	<2	<2	<2	<2	<2	<2
NVHOS	3.7	4.4	4.5	8.1 J	2.8	5.2	4.7
EVE Acid	<2	<2	<2	<2	<2	<2	<2
Hydro-EVE Acid	<2	<2	<2	2.7	<2	3.5	<2
R-EVE	20	23 J	17	16	13	46 J	25
PES	<2	<2	<2	<2	<2	<2	<2
PFECA B	<2	<2	<2	<2	<2	<2	<2
PFECA-G	<2	<2	<2	<2	<2	<2	<2
Total Attachment C (ng/L)^{1,2}	2,500	2,600	2,500	2,400	1,400	2,900	2,300
Total Table 3+ (17 compounds) (ng/L)^{2,3}	2,600	2,600	2,500	2,400	1,400	3,000	2,300
Ratio of Total Attachment C to HFPO-DA	4.6	4.6	5.3	4.1	5.6	4.5	4.7
Ratio of Total Table 3+ (17 compounds) to HFPO-DA	4.8	4.6	5.3	4.1	5.6	4.7	4.7
Average Ratio of Total Attachment C to HFPO-DA	4.85						
Average Ratio of Total Table 3+ (17 compounds) to HFPO-DA	4.87						

TABLE ATT2-4
RATIO OF OTHER PFAS COMPOUNDS TO HFPO-DA
Chemours Fayetteville Works, North Carolina

Location ID	SEEP-L	SEEP-M
Field Sample ID	SEEP-L-0825	SEEP-M-0818
Sample Date	10/22/2019	10/22/2019
QA/QC	--	--
Sample Delivery Group (SDG)	320-55576-1	320-55576-1
Lab Sample ID	320-55576-8	320-55576-9
Table 3+ SOP (ng/L)		
HFPO-DA	520	570
PFMOAA	130	100
PFO2HxA	220	190
PFO3OA	18	15
PFO4DA	2.7	<2
PFO5DA	<2	<2
PMPA	1,200	1,300
PEPA	350	410
PS Acid	<2	<2
Hydro-PS Acid	44	28
R-PSDA	120 J	78 J
Hydrolyzed PSDA	<2	<2
R-PSDCA	<2	<2
NVHOS	5.9	5.6
EVE Acid	<2	<2
Hydro-EVE Acid	<2	<2
R-EVE	44 J	26 J
PES	<2	<2
PFECA B	<2	<2
PFECA-G	<2	<2
Total Attachment C (ng/L) ^{1,2}	2,500	2,600
Total Table 3+ (17 compounds) (ng/L) ^{2,3}	2,500	2,600
Ratio of Total Attachment C to HFPO-DA	4.8	4.6
Ratio of Total Table 3+ (17 compounds) to HFPO-DA	4.8	4.6
Average Ratio of Total Attachment C to HFPO-DA	4.85	
Average Ratio of Total Table 3+ (17 compounds) to HFPO-DA	4.87	

Notes:

Bold - Analyte detected above associated reporting limit

J - Analyte detected. Reported value may not be accurate or precise
ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

1 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).

2 - Total Table 3+ and Total Attachment C were calculated including J qualified data but not non-detect data. The sum is rounded to two significant figures.

3 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

**TABLE ATT2-5
CALCULATION OF HFPO-DA DEPOSITED MASS AND MASS FLUX
Chemours Fayetteville Works, North Carolina**

Section ¹	Start Air Loading (ug/m ²)	End Air Loading (ug/m ²)	Start Deposition Rate (ng/m ² /hr) ²	End Deposition Rate (ng/m ² /hr) ²	Average Deposition Rate (ng/m ² /hr)	Section Distance ³ (m)	Average River Width (m)	Section Area (m ²)	River Velocity ⁴ (ft/s)	River Velocity (m/hr)	Travel Time (hrs)	Mass Deposited (mg)	Mass Discharge (mg/s)
Center	160	160	18.3	18.3	18.3	903	98.59	89,028	1.6	1783.64	0.51	0.8	0.00045
Up River Section 1	160	80	18.3	9.1	13.7	490	98.59	48,300	1.6	1783.64	0.27	0.2	0.00018
Up River Section 2	80	40	9.1	4.6	6.8	909	98.59	89,570	1.6	1783.64	0.51	0.3	0.00017
Down River Section 1	160	80	18.3	9.1	13.7	586	98.59	57,813	1.6	1783.64	0.33	0.3	0.00022
Down River Section 2	80	40	9.1	4.6	6.8	565	98.59	55,672	1.6	1783.64	0.32	0.1	0.00011
Total HFPO-DA:												0.0011	
Total Attachment C⁵:												0.01	
Total Table 3+ (17 Compounds)⁶:												0.006	

Notes:

- 1 - River cross sections are shown in Figure ATT2-1.
- 2 - Based on model deposition rate, Table ATT2-1.
- 3 - Section distances are measured in GIS as shown on Figures ATT2-2 through ATT2-6.
- 4 - River velocity is calculated as an average from USGS discharge data between January 24 and January 25, 2024, Table ATT2-3.
- 5 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 6 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

µg/m²/yr: micrograms per meter square per year

ft/s: feet per second

hr: hours

m/hr: meters per hour

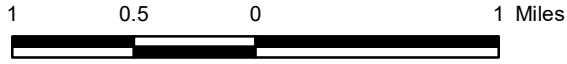
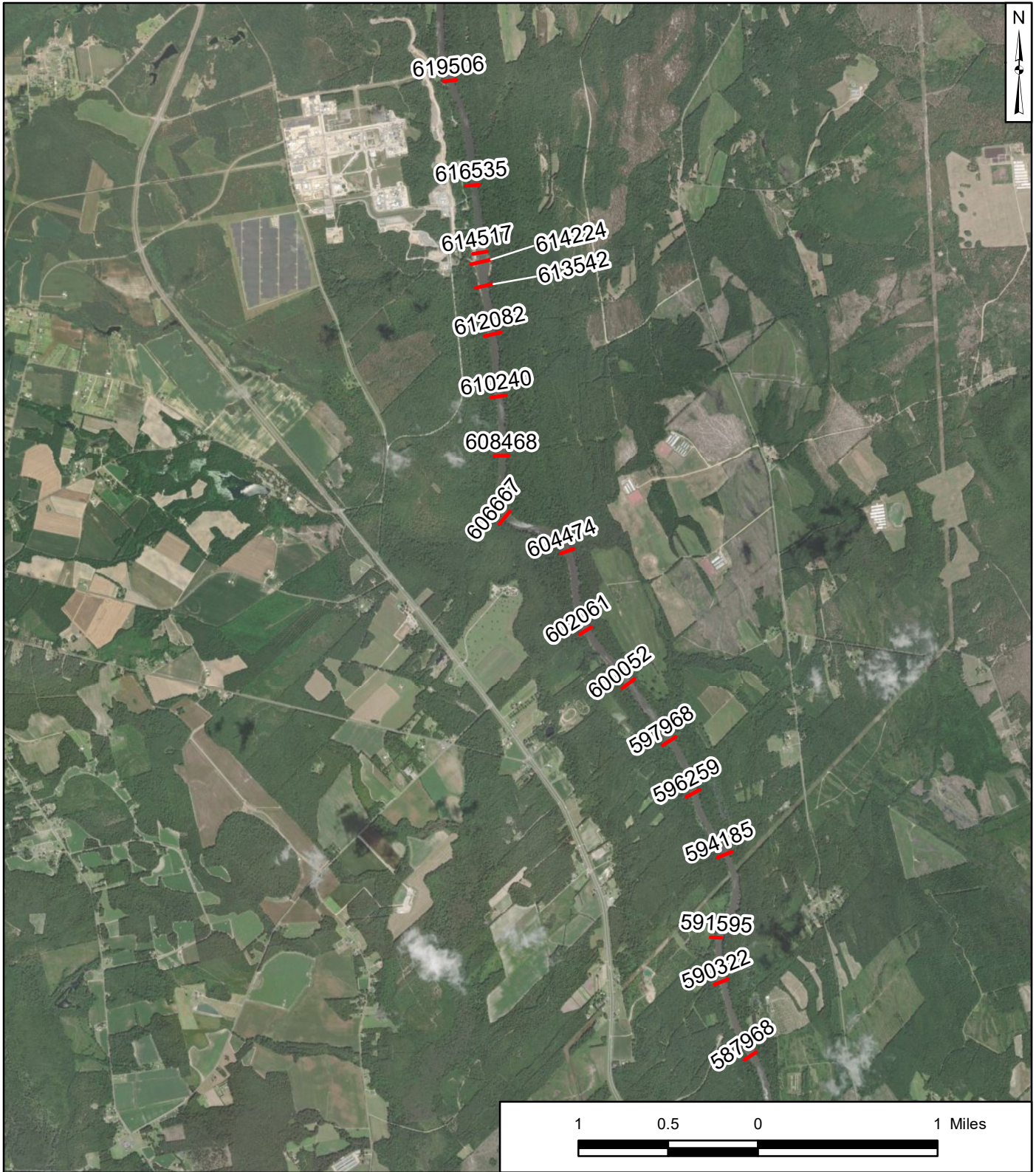
m: meter

m²: meter square

mg/s: milligrams per second

mg: milligrams

ng/m²/hr: nanograms per meter square per hour



Legend

Cross Section

Notes:

1. Cape Fear River cross section locations obtained from "A Report of Flood Hazards in Bladen County, North Carolina and Incorporated Areas." (2007) Flood Insurance Study, Federal Emergency Management Agency. North Carolina Flood Risk Information System Engineering Model. Cape Fear RiverADJ. HEC-RAS 5.0.7.
2. Cross sections used for calculation of average river widths for calculation of aerial mass loading.
3. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Cape Fear River Cross Sections Locations

Chemours Fayetteville Works, North Carolina

Geosyntec
consultants

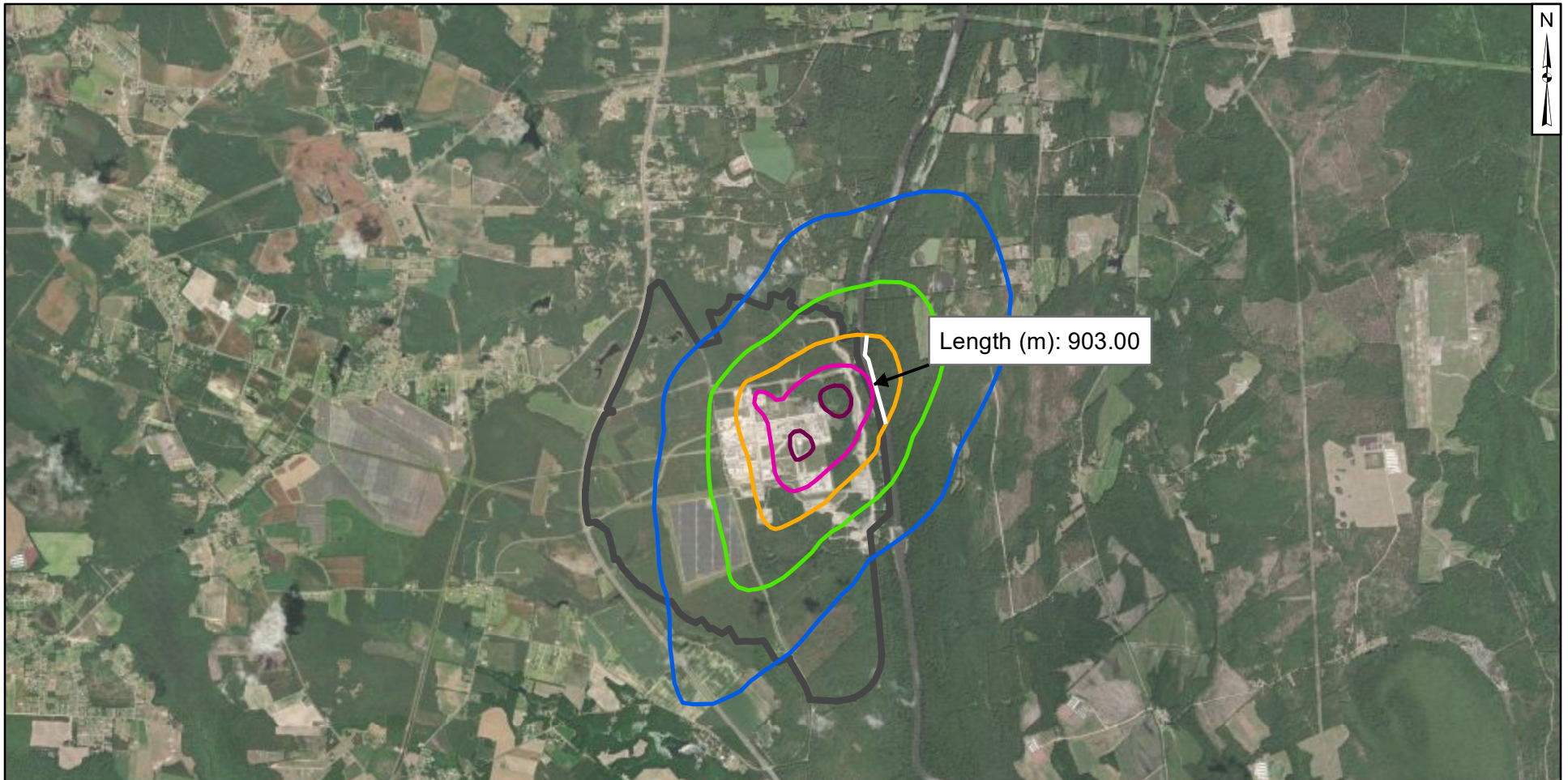
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Figure

ATT2-1

Raleigh

June 2024



Length (m): 903.00

Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Down-River Section 2

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

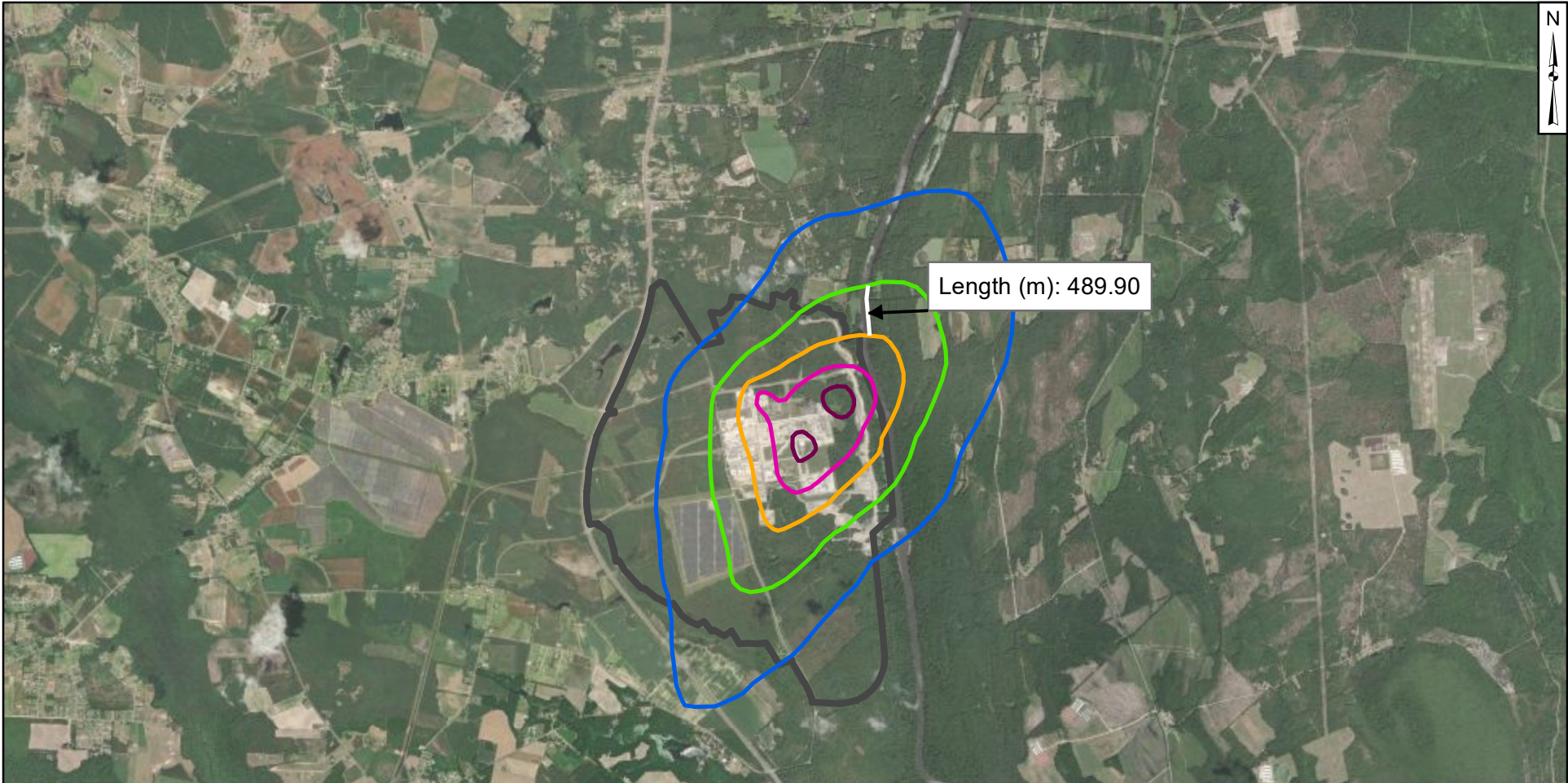
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-2

Raleigh

June 2024



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Up-River Section 1

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

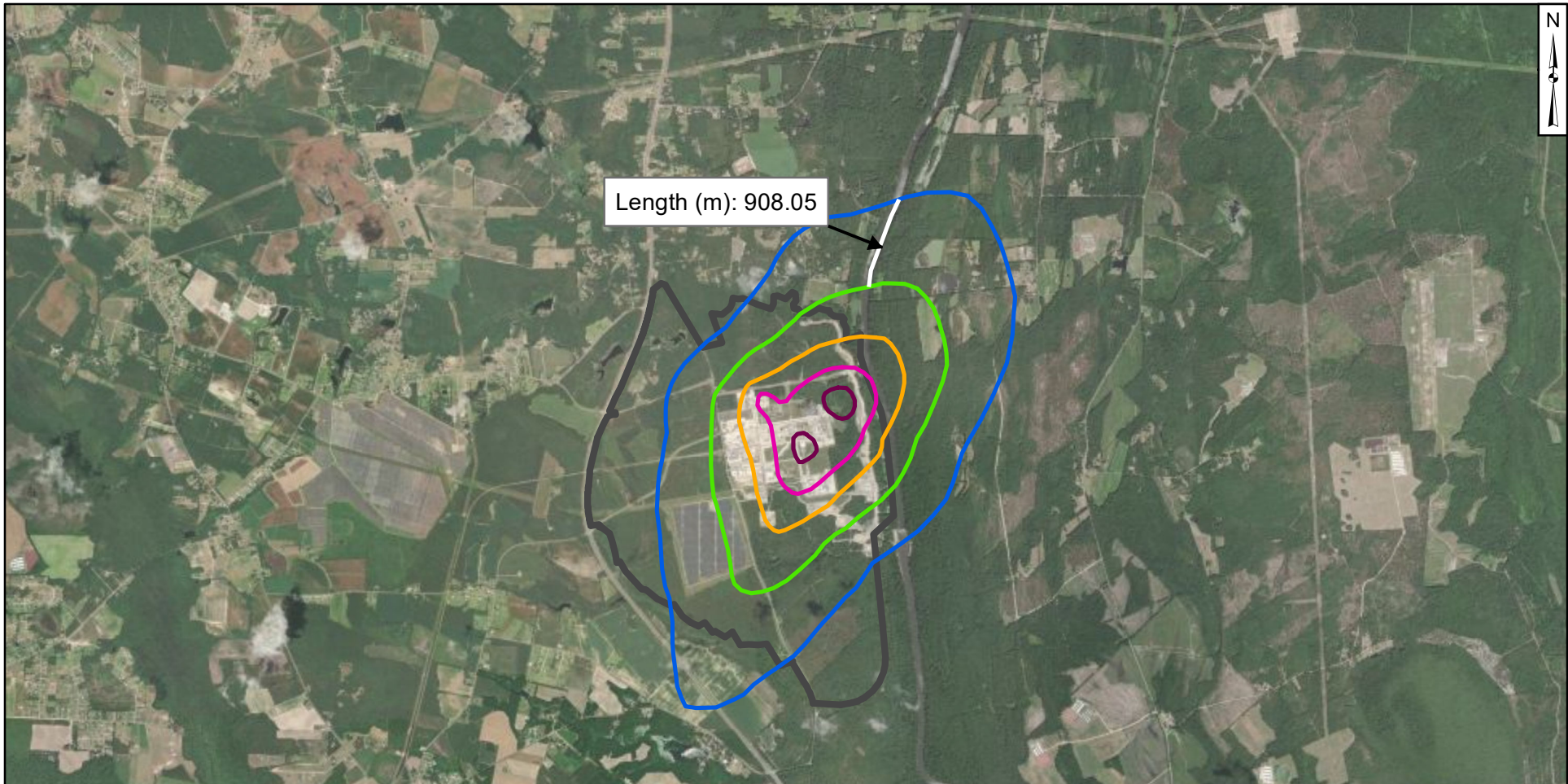
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-3

Raleigh

June 2024



Length (m): 908.05

Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Up-River Section 2

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

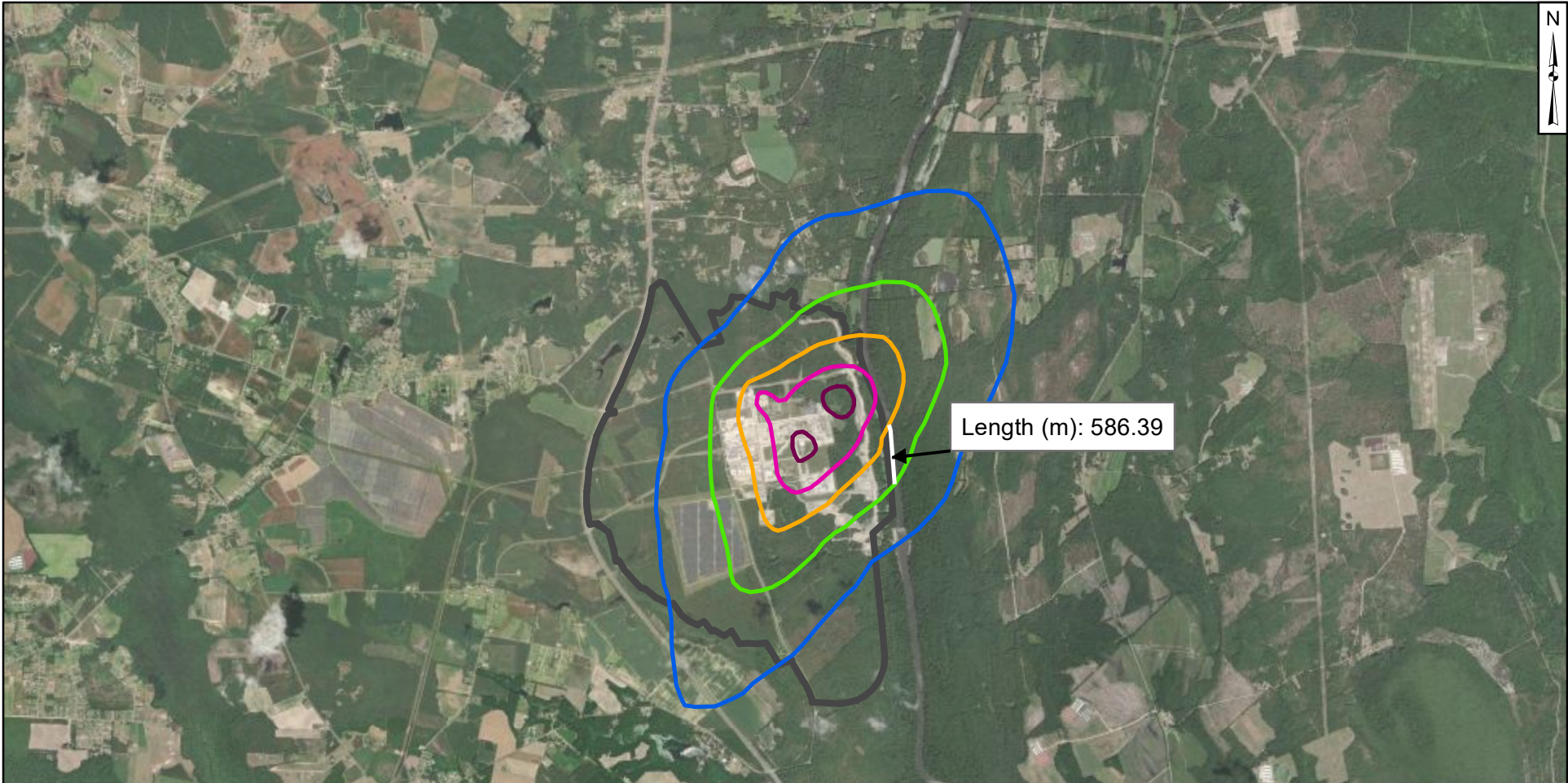
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-4

Raleigh

June 2024



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Down-River Section 1

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

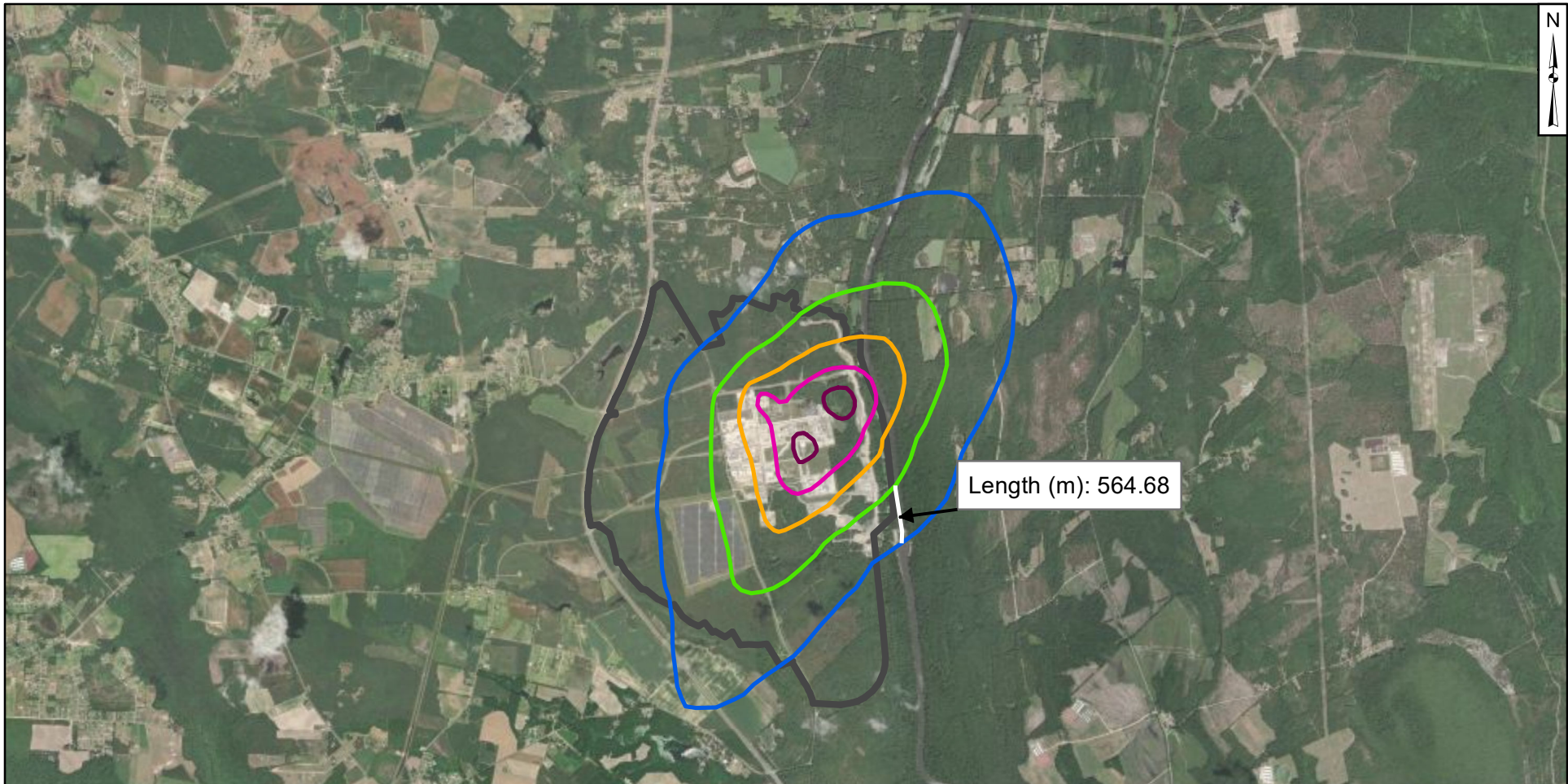
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-5

Raleigh

June 2024



Legend

— Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 $\mu\text{g}/\text{m}^2/\text{yr}$
- 80 $\mu\text{g}/\text{m}^2/\text{yr}$
- 160 $\mu\text{g}/\text{m}^2/\text{yr}$
- 320 $\mu\text{g}/\text{m}^2/\text{yr}$
- 640 $\mu\text{g}/\text{m}^2/\text{yr}$

Notes:
 $\mu\text{g} / \text{m}^2 / \text{yr}$ - micrograms per square meter per year

HFPO-DA deposition model contours for October 2018 from ERM, 2018, Modeling Report: HFPO-DA Atmospheric Deposition and Screening Groundwater Effects. 27 April 2018.

Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

1 0.5 0 1 Miles



Measurement of Cape Fear River Length at Down-River Section 2

Chemours Fayetteville Works, North Carolina

Geosyntec
 consultants

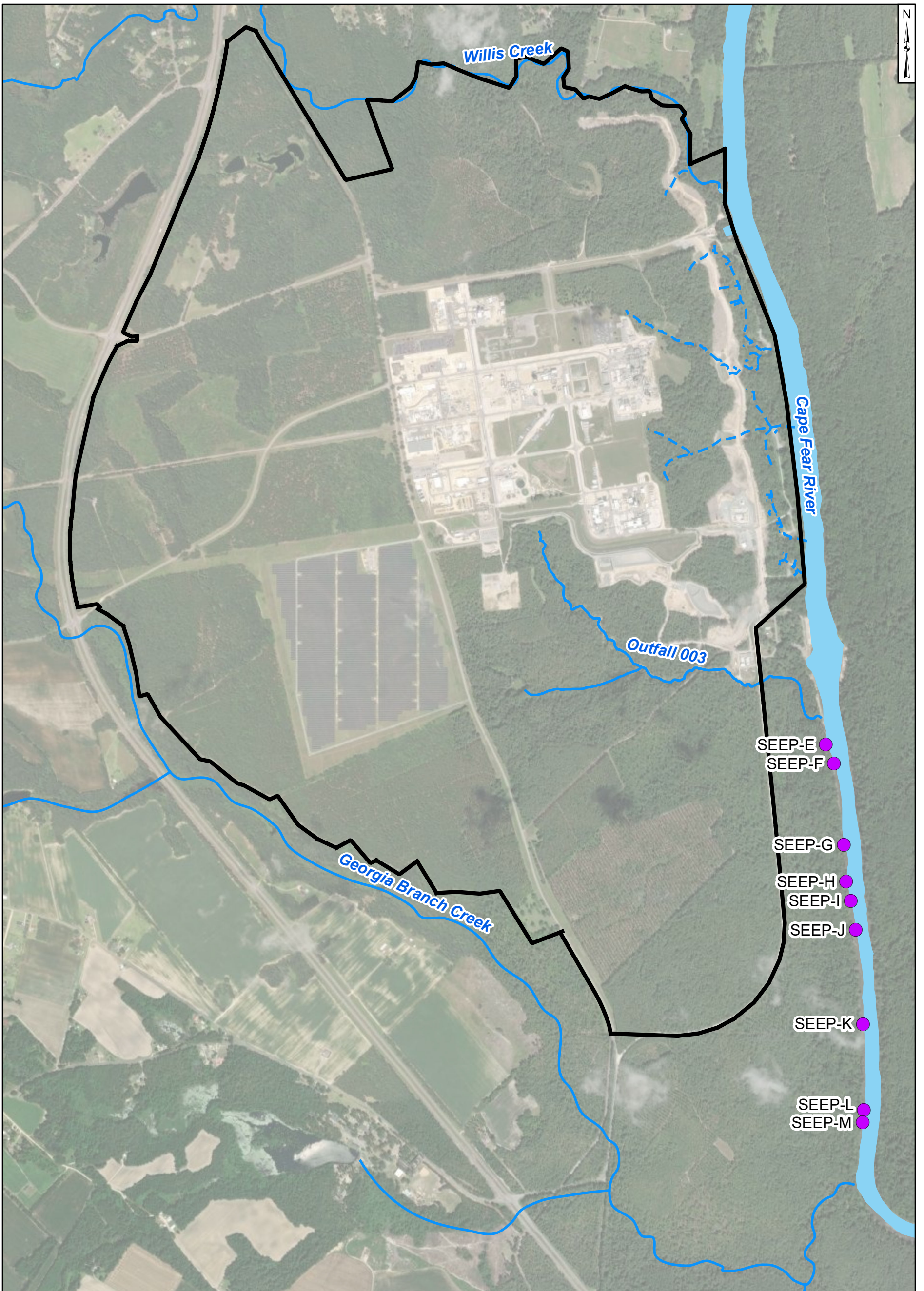
Geosyntec Consultants of NC, P.C.
 NC License No.: C 3500 and C 295

Figure

ATT2-6

Raleigh

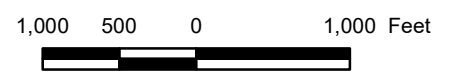
June 2024



- Legend**
- Observed Seep
 - Nearby Tributary
 - Site Boundary

Notes:

1. Seep E to M samples were collected where the seeps entered the Cape Fear River. Their locations on this figure have been slightly adjusted to facilitate interpretation so that they do not appear to be in the Cape Fear River.
2. The outline of Cape Fear River is approximate and is based on open data from ArcGIS Online and North Carolina Department of Environmental Quality Online GIS (MajorHydro shapefile).
3. Basemap Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Southwestern Offsite Seeps Locations
Chemours Fayetteville Works, North Carolina

Geosyntec
consultants

Geosyntec Consultants of NC, P.C.
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Figure

Raleigh

June 2024

ATT2-7

Attachment ATT3

Onsite Groundwater Pathway

Attachment ATT3: Supporting Calculations – Onsite Groundwater Pathway

Introduction and Objective

Based on the conceptual site model, the Black Creek Aquifer and the Flood Plain deposits at the river bank are the primary hydrogeologic units that are potentially in hydraulic connection with the Cape Fear River. The Cape Fear River stage is lower than the top of the Black Creek Aquifer, except during peak rainfall or flooding, indicating that the Cape Fear River is a discharge boundary for the aquifer. Onsite groundwater from the Black Creek Aquifer discharging to the Cape Fear River is therefore a potential pathway for per- and polyfluoroalkyl substances (PFAS) mass loading to the Cape Fear River. This pathway was identified as Transport Pathway Number 5 in the PFAS mass loading in this report. The objective of the supporting calculations presented in this appendix is to estimate PFAS mass loading from onsite groundwater discharge based on calculated PFAS mass flux for segments of the Black Creek Aquifer along the river frontage.

Prior to Q2 2023, hydraulic gradients were derived from potentiometric maps. Since Q2 2023, hydraulic gradients were estimated between well pairs downgradient of the remedy, since the prior method is considered not appropriate for these new conditions since barrier wall results in a discontinuous potentiometric surface. This change will continue to be incorporated in future mass loading assessments.

Approach

The PFAS mass loading from onsite groundwater discharge was estimated as follows. Supporting data are provided in Table ATT3-1:

1. The Cape Fear River frontage was divided into nine segments (Figure ATT3-1). Each segment includes one well pair, consisting of:
 - a. One primary groundwater monitoring well that is considered representative of the Black Creek Aquifer and that is included in the Corrective Action Plan¹ (Geosyntec, 2019); and
 - b. One secondary paired groundwater monitoring well that is generally west of the groundwater monitoring well, east of the Barrier Wall remedy, and also considered representative of the Black Creek Aquifer.
2. The thickness of the Black Creek Aquifer (h) was estimated for each segment based on the segment length and the cross-sectional area of the Black Creek Aquifer, as determined by the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Geosyntec, 2019):

¹ The Black Creek Aquifer is not observed in boreholes from Segment 4 suggesting a localized "pinch-out" of the Black Creek Aquifer in Segment 4. The monitoring well used to determine PFAS mass loading in this segment is screened in the Floodplain Deposits (LTW-03).

**Attachment ATT3: Supporting Calculations – Onsite
Groundwater Pathway**

$$h = \frac{A}{l}$$

where,

h = the Black Creek Aquifer thickness [ft];

A = the cross-sectional area of the Black Creek Aquifer [ft²]; and

l = the segment length [ft].

The EVS model output for each segment is presented in Figure ATT3-2.

3. The hydraulic gradient (i) for each segment was derived based on the groundwater elevations and distance between each well within the well pair (Figure ATT3-3):

$$i = \frac{-\Delta h}{d}$$

where,

i = the hydraulic gradient [ft/ft];

Δh = the head difference between the two wells [ft]; and

d = the distance between the two wells [ft]

Unlike past quarterly reports, only a single hydraulic gradient value was estimated for each segment (i.e., no lower and upper bound values). Based on the hydrographs from wells along the river presented in Figure ATT3-4, hydraulic gradients in the aquifer are relatively constant over time. With the exception of large changes in the river level (over 10 feet), these wells respond to river level fluctuation in the subdued manner.

4. The hydraulic conductivity (K) was estimated for each segment using the results of constant rate tests performed at five extraction wells installed in the Black Creek Aquifer upstream of the river frontage (Geosyntec, 2021). The extraction wells used to determine the hydraulic conductivity for each segment are as follows, based on their locations relative to the segments (Figure ATT 3-1):

**Attachment ATT3: Supporting Calculations – Onsite
Groundwater Pathway**

Extraction Well	Segment
EW-1	1
	2
EW-4	3
	4
EW-5	5
	6
EW-2	7
EW-3	8
	9

5. The total PFAS concentration for each segment was determined based on grab samples collected from the primary groundwater monitoring wells. PFAS analytical results for these groundwater samples are presented in Table ATT1-15-1 and ATT1-15-2 in Attachment 1.
6. Mass flux for each segment, representing the PFAS mass loading to the river from groundwater, was determined as follows:

$$Q = lhKiCf$$

where,

Q = the mass flux [mg/sec];

l = the segment length [ft];

h = the Black Creek Aquifer thickness [ft];

K = the hydraulic conductivity of the aquifer [ft/sec];

i = the hydraulic gradient [ft/ft], using an upper and lower contour elevation difference;

C = the total PFAS concentration [ng/L]; and

f = the conversion factor between cubic feet and liters and between ng and mg.

The mass flux is interpreted as zero for segments where a negative hydraulic gradient was computed (i.e., groundwater flow is moving away from the river). Parameters listed above were used to estimate groundwater flow rates, shown in Table ATT3-2.

Potential Future Methodology Modifications

The groundwater flows in the Black Creek Aquifer have changed due to the implementation of the groundwater extraction system and the barrier wall construction remedy. Adjustments to this calculation methodology were made since Q2 2023 and may be required in future assessments based on changes in conditions or refinement of Site knowledge.

**Attachment ATT3: Supporting Calculations – Onsite
Groundwater Pathway**

References

Geosyntec, 2019. Corrective Action Plan. Chemours Fayetteville Works. December 2019.

Geosyntec, 2021. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2020 Report, Chemours Fayetteville Works. March 31, 2021.

**TABLE ATT3-1
ONSITE GROUNDWATER PATHWAY SUPPORTING DATA
Chemours Fayetteville Works, North Carolina**

Segment	Primary Well	Sample Date	Segment Length (ft)	Cross-sectional Area of Black Creek Aquifer ¹ (ft ²)	Average Thickness of Black Creek Aquifer (ft)	Secondary Paired Well ²	Difference in Hydraulic Head ³ (ft)	Difference in Distance (ft)	Hydraulic Gradient (ft/ft)	Hydraulic Conductivity ⁴ (ft/sec)	Total Attachment C ⁵		Total Table 3+ (17 Compounds) ⁶		Total Table 3+ (18 Compounds) ⁷		Total Table 3+ (21 Compounds)	
											Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)	Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)	Concentration ¹ (ng/L)	Mass Loading (mg/s)	Concentration ⁷ (ng/L)	Mass Loading ⁸ (mg/s)
1	PIW-1D	1/22/2024	1,150	13,400	11.7	OW-14	-0.46	305.47	0.0015	1.71E-04	44,000	0.0043	44,000	0.004	55,000	0.0054	56,000	0.0055
2	PIW-3D	1/18/2024	873	11,010	12.6	OW-44	0.22	351.79	0.0000	1.71E-04	97,000	0	98,000	0	120,000	0	120,000	0
3	LTW-02	1/17/2024	875	5,560	6.4	OW-45	-0.13	399.66	0.0003	1.02E-04	97,000	0.0005	97,000	0.0005	120,000	0.0006	120,000	0.0006
4	LTW-03	1/31/2024	729	2,800	3.9	OW-46	-1.55	510.17	0.0030	1.02E-04	140,000	0.0035	140,000	0.003	190,000	0.0047	190,000	0.0047
5	PZ-22	1/16/2024	656	15,200	23.2	OW-22	-0.21	370.47	0.0006	3.28E-04	220,000	0.0177	220,000	0.018	290,000	0.0233	290,000	0.0233
6	PIW-7D	1/15/2024	524	16,000	30.5	OW-48	0.20	331.98	0.0000	3.28E-04	220,000	0	220,000	0	290,000	0	290,000	0
7	LTW-05	1/15/2024	672	11,800	19.4	OW-25	-0.30	398.47	0.0008	1.28E-04	330,000	0.0117	340,000	0.012	460,000	0.0164	460,000	0.0164
8	OW-28	1/18/2024	594	15,500	26.0	OW-27	-0.33	216.60	0.0015	2.59E-04	18,000	0.0031	18,000	0.003	24,000	0.0041	25,000	0.0043
9	OW-33	1/30/2024	1607	46,300	28.8	OW-30	0.27	297.99	0.0000	2.59E-04	22,000	0	22,000	0	30,000	0	30,000	0
Total											--	0.0408	--	0.0411	--	0.0545	--	0.0548

Notes

1 - Cross sectional areas were determined using the three-dimensional hydrostratigraphic model of the Site, constructed using CTech's Earth Volumetric Studio (EVS) software (Figure ATT3-2).

2 - Second paired well is east of the Barrier Wall remedy and west of the primary well.

3 - Groundwater elevation difference for hydraulic gradient based on water levels measured on January 31, 2024 (Figure ATT3-3).

4 - Hydraulic conductivity values are based on constant rate pumping test results from extraction wells described in Attachment ATT3.

5 - Attachment C does not include Perfluorohexanoic acid (PFHpA).

6 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.

7 - Total Table 3+ (18 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, and R-EVE.

8 - Detailed PFAS Concentrations provided in Appendix A.

9 - A value of zero represents a negative mass loading value (i.e., computed negative gradient).

-- not applicable

ft - feet

ft/sec - feet per second

ft² - square feet

mg/s - milligrams per second

ng/L - nanograms per liter

**TABLE ATT3-2
NOVEMBER 2023 ONSITE GROUNDWATER FLOW RATE
Chemours Fayetteville Works, North Carolina**

Segment	Cross-sectional Area of Black Creek Aquifer ¹ (ft ²)	Hydraulic Gradient ^{1,2} (ft/ft)	Hydraulic Conductivity (ft/sec) ¹	Flow Upper Bound (ft ³ /sec)	Flow Upper Bound (gal /day)
1	13,400	0.0015	1.71E-04	3.44E-03	2,222
2	11,010	0	1.71E-04	0	0
3	5,560	0.0003	1.02E-04	1.84E-04	119
4	2,800	0.0030	1.02E-04	8.75E-04	565
5	15,200	0.0006	3.28E-04	2.83E-03	1,832
6	16,000	0	3.28E-04	0	0
7	11,800	0.0008	1.28E-04	1.13E-03	733
8	15,500	0.0015	2.59E-04	6.10E-03	3,945
9	46,300	0	2.59E-04	0	0
				0.016	10,294

Notes

1 - Supporting data for cross-sectional area, hydraulic gradient, and hydraulic conductivity provided in Table ATT3-1.

2 - Hydraulic gradient based on water levels measured on January 31, 2024 (Figure ATT3-3).

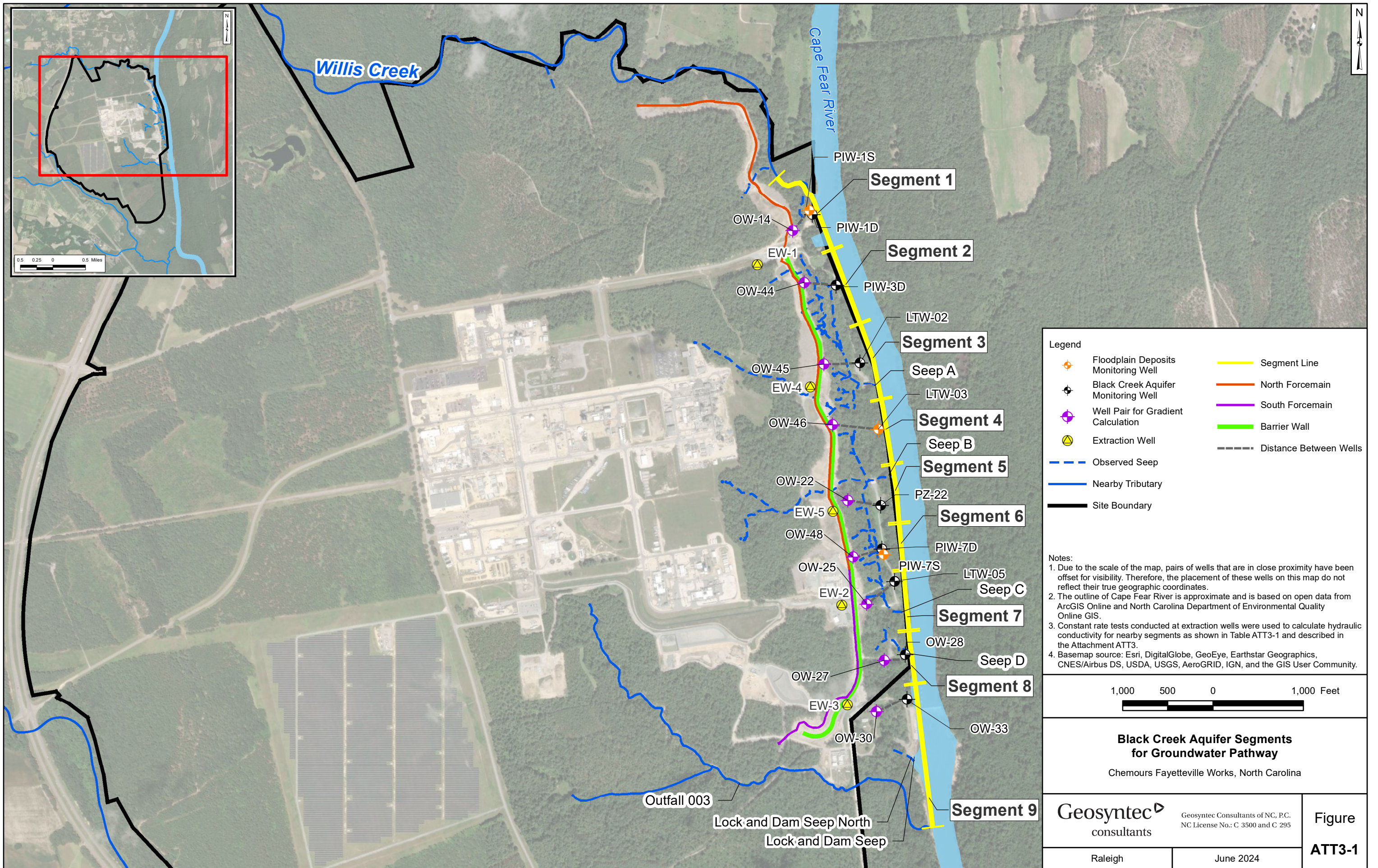
ft - feet

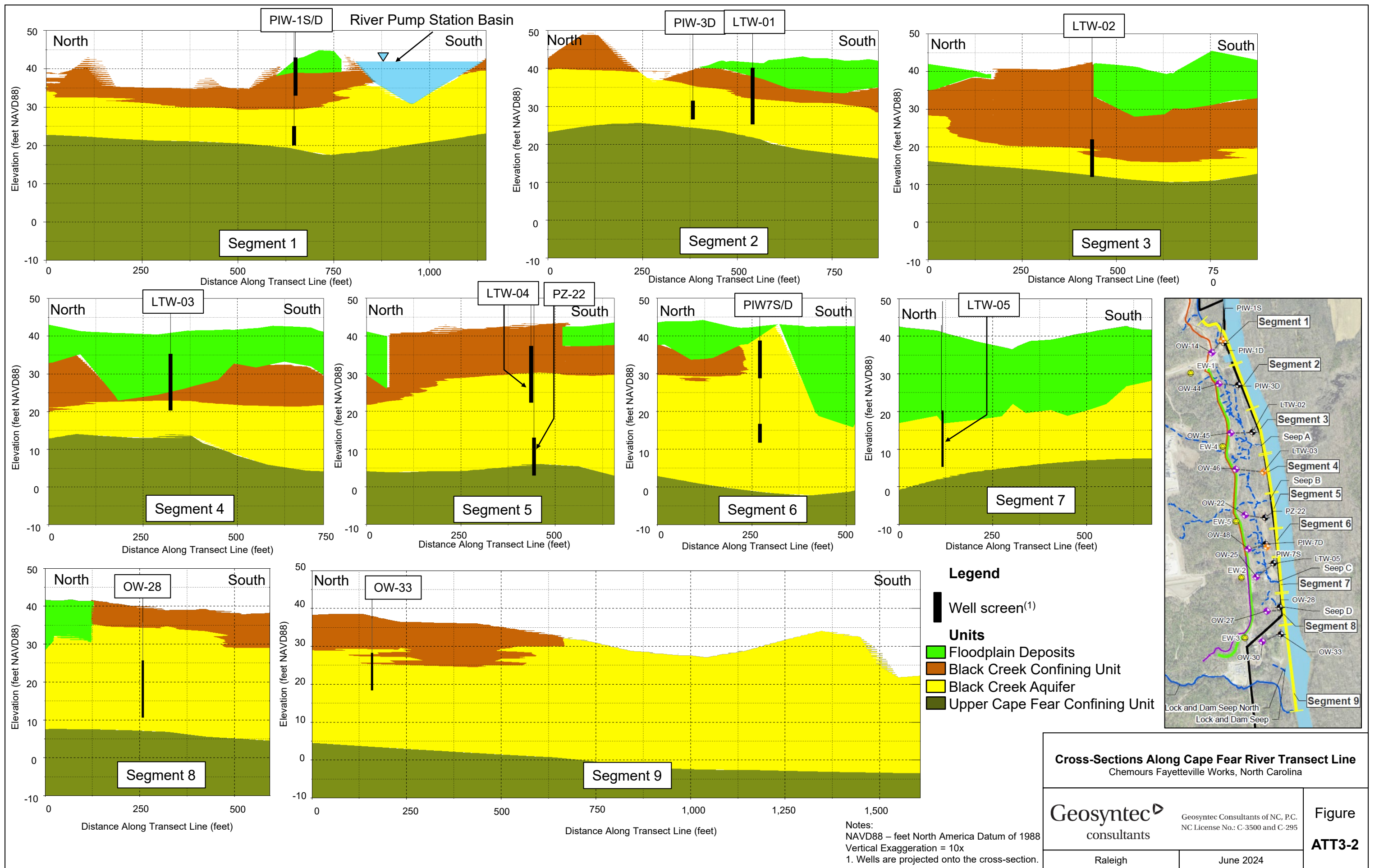
ft² - square feet

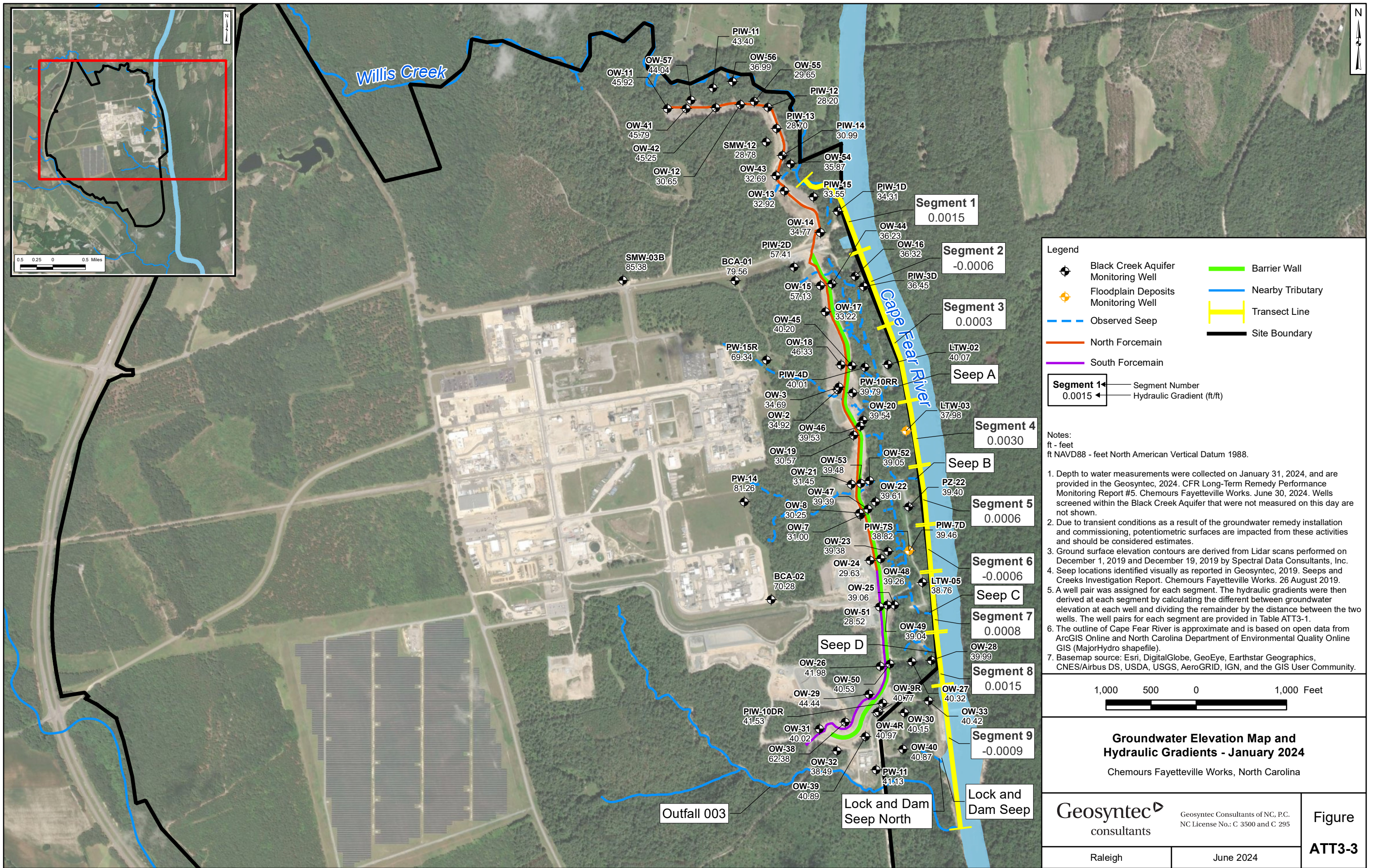
ft/sec - feet per second

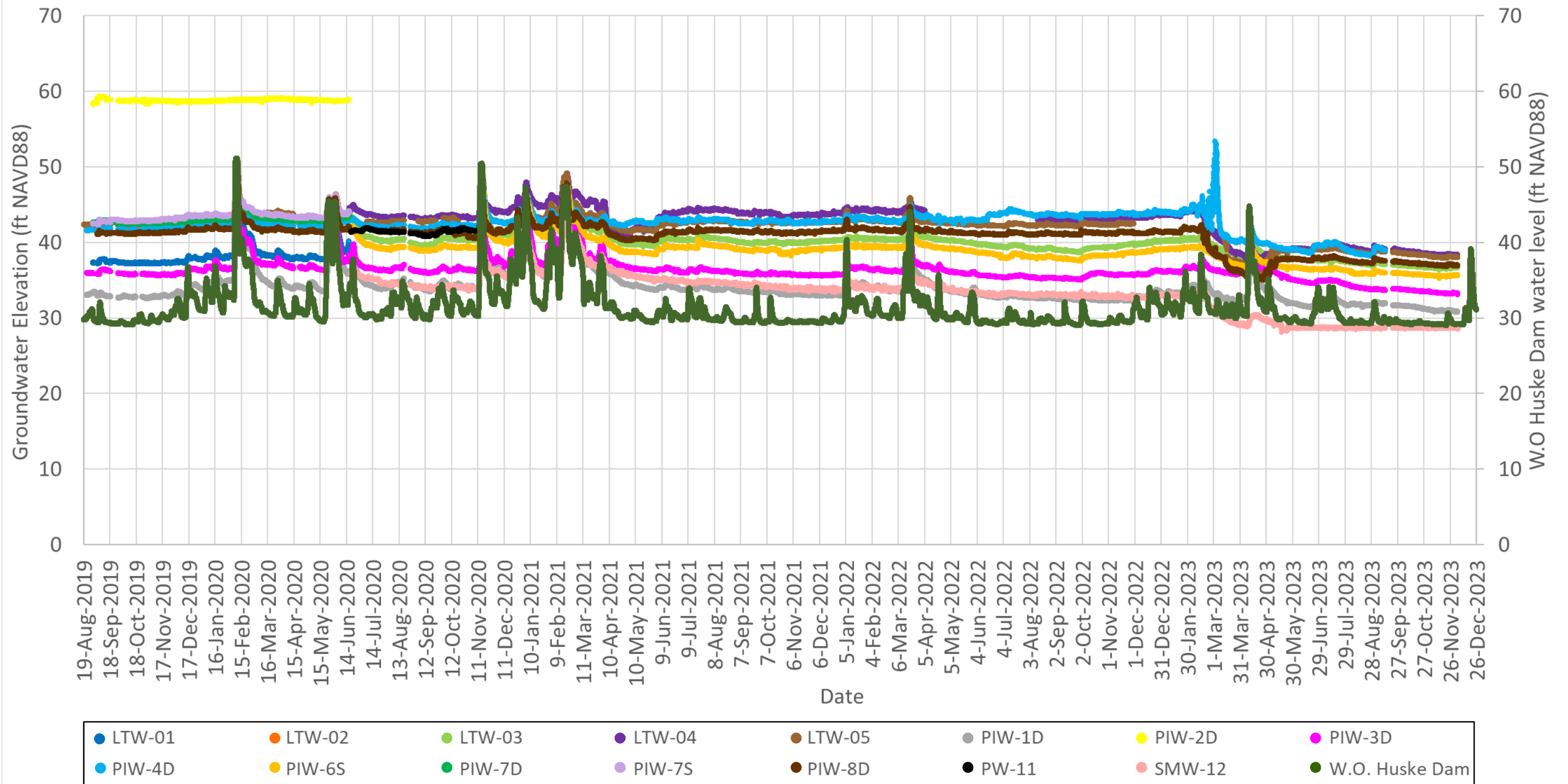
ft³/sec - cubic feet per second

gal/day - gallons per day









Notes:
 ft - feet
 NAVD88 - North American Vertical Datum of 1988

Hydrograph for Select Onsite Groundwater Monitoring Wells and W.O Huske Dam Chemours Fayetteville Works, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh	June 2024

Figure
ATT3-4

Appendix B

Supplemental Tables

**TABLE B1-1
OUTFALL 003 CAPTURED MASS LOAD BY COMPOUND AND TIME INTERVAL - Q1 2024
Chemours Fayetteville Works, North Carolina**

Interval Details					Calculated Captured Mass Load (lbs) ¹																				
Interval ID	Start Time	End Time	Duration (hours)	Total Flow (MG)	HFPO-DA	PFMOAA	PFO2HxA	PF030A	PFO4DA	PFO5DA	PMPA	PEPA	PS Acid	Hydro-PS Acid	R-PSDA	Hydrolyzed PSDA	R-PSDCA	NVHOS	EVE Acid	Hydro-EVE Acid	R-EVE	PES	PFECA B	PFECA-G	Total Table 3+ (17 compounds) ²
OF003_2024_Q1_1	1/1/24 0:00	1/31/24 23:59	744	13.2	0.46	1.5	0.55	0.16	0.076	0.049	0.28	0.10	0.060	0.020	0.018	0.033	0	0.022	0.0024	0.015	0.0090	0	0	0	3.2
OF003_2024_Q1_2	2/1/24 0:00	2/29/24 23:59	696	10.6	0.36	1.3	0.47	0.13	0.068	0.035	0.25	0.084	0.037	0.022	0.020	0.055	0.00055	0.018	0.0017	0.010	0.0099	0	0	0	2.8
OF003_2024_Q1_3	3/1/24 0:00	3/31/24 23:59	744	13.2	0.41	1.0	0.46	0.12	0.062	0.034	0.25	0.084	0.0069	0.023	0.017	0.051	0.00054	0.017	0	0.010	0.0076	0	0	0	2.5
Total				37.0	1.2	3.7	1.5	0.41	0.21	0.12	0.78	0.27	0.10	0.065	0.055	0.14	0.0011	0.057	0.0041	0.034	0.027	0	0	0	8.5

Notes:
 1 - The calculated captured mass load is a product of the concentration difference in the influent and the effluent samples and total flow at the influent for the sampling interval.
 2 - Total Table 3+ (17 compounds) does not include PFHpA, R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
 Where mass loads are equal to 0 lbs, the compound was not detected above the reporting limit.
 OF003 - previously Old Outfall 002 treatment system
 lbs - pounds
 MG - million gallons

TABLE B1-2
STORMWATER TREATMENT SYSTEM CAPTURED MASS LOAD
BY COMPOUND AND DATE - Q1 2024

Geosyntec Consultants of NC, P.C.

Chemours Fayetteville Works, North Carolina

Date ¹	Total Flow (MG) ²	Calculated Captured Mass Load (lbs) ^{3,4}			
		HFPO-DA	PFMOAA	PMPA	Total of 3 Compounds ⁵
1/8/24	0.11	0.005	0.0033	0.0006	0.009
1/9/24	0.18	0.009	0.0055	0.0011	0.015
1/10/24	0.17	0.008	0.0044	0.0009	0.014
1/11/24	0.16	0.008	0.0043	0.0009	0.013
1/12/24	0.13	0.006	0.0034	0.0007	0.011
1/13/24	0.21	0.010	0.0055	0.0011	0.017
1/14/2024 ⁶	0.19	0.009	0.0036	0.0007	0.013
1/15/2024 ⁶	0.12	0.005	0.0022	0.0004	0.008
2/14/24	0.09	0.007	0.0020	0.0004	0.009
2/15/24	0.14	0.011	0.0032	0.0006	0.015
2/16/24	0.12	0.011	0.0030	0.0005	0.014
2/17/24	0.07	0.006	0.0017	0.0003	0.008
3/2/24	0.13	0.011	0.0066	0.0009	0.019
3/3/24	0.15	0.014	0.0079	0.0011	0.023
3/4/24	0.13	0.012	0.0063	0.0009	0.019
3/5/24	0.08	0.007	0.0038	0.0006	0.011
3/6/24	0.05	0.005	0.0025	0.0004	0.007
3/7/24	0.15	0.009	0.0043	0.0008	0.014
3/8/24	0.15	0.009	0.0043	0.0008	0.014
3/9/24	0.13	0.008	0.0036	0.0007	0.012
3/10/24	0.07	0.004	0.0020	0.0004	0.007
3/27/24	0.07	0.008	0.0021	0.0004	0.010
3/28/24	0.10	0.011	0.0028	0.0006	0.014
3/29/24	0.11	0.012	0.0031	0.0006	0.015
Total	3.0	0.20	0.091	0.016	0.31

Notes:

1 - Listed dates are days when flow was recorded at the Stormwater Treatment System.

2 - Total daily flows were based on the volume recorded via a totalizer at the Stormwater Treatment System effluent.

3 - The calculated captured mass load is a product of the concentration difference in the influent and the effluent samples and total flow at the effluent for the sampling date.

4 - For days where only flow was recorded, the concentrations from the closest date were used to calculate mass loads.

5 - Only HFPO-DA, PFMOAA and PMPA are recorded at this location. Thus, the total captured mass load presented here is summed over these three compounds only.

6 - For the sampling event representing treatment on 1/14/2024 and 1/15/2024, the reporting limits at the Stormwater Treatment System effluent for HFPO-DA, PFMOAA, and PMPA were higher than typical at 81 ng/L, 80 ng/L, and 620 ng/L, respectively. Effluent sample results were non-detect and it was assumed that all influent mass load was captured.

**TABLE B2
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	CFR-BLADEN	CFR-KINGS	CFR-MILE-76	CFR-TARHEEL	CFR-TARHEEL	GBC-5
Field Sample ID	CAP1Q24-CFR-BLADEN-012424	CAP1Q24-CFR-KINGS-012524	CAP1Q24-CFR-RM-76-012424	CAP1Q24-CFR-TARHEEL-012424	CAP1Q24-CFR-TARHEEL-24-012524	CAP1Q24-GBC-5-012424
Sample Date	1/24/2024	1/25/2024	1/24/2024	1/24/2024	1/25/2024	1/24/2024
QA/QC						
Sample Delivery Group (SDG)	320-109128-1	320-109128-1	320-109128-1	320-109128-1	320-109127-1	320-109128-1
Lab Sample ID	320-109128-5	320-109128-7	320-109128-4	320-109128-6	320-109127-7	320-109128-1
537 Mod (ng/L)						
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	4.8	4.3	5.6	4.8	5.0	2.8
Perfluorobutanoic Acid	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0 UJ	<5.0	<5.0 UJ
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	3.4	2.6	3.1	3.1	3.3	2.2
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0 UJ	<2.0	<2.0
Perfluorohexane Sulfonic Acid	3.2	2.7	3.2	3.0	3.4	<2.0
Perfluorohexanoic Acid	7.5	6.2	7.2	7.4	7.7	2.2
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0 UJ	<2.0 UJ	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	6.9	5.8	6.9	6.7	6.7	7.6
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	7.2	6.5	6.8	6.9	7.5	4.2
PFOS	12	11	12	12	12	<2.0

**TABLE B2
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	LOCK-DAM SEEP	LOCK-DAM SEEP	OLDOF-1	OUTFALL 002	RIVER WATER INTAKE 2	SEEP-A-EFF
Field Sample ID	CAP1Q24-LOCK-DAM- SEEP-012424	CAP1Q24-LOCK-DAM- SEEP-012424-D	CAP1Q24-OLDOF-1B-24- 012524	CAP1Q24-OUTFALL-002- 24-012524	RIVER-WATER- INTAKE2-24-012524	CAP1Q24-SEEP-A-EFF-24- 012524
Sample Date	1/24/2024	1/24/2024	1/25/2024	1/25/2024	1/25/2024	1/25/2024
QA/QC		Field Duplicate				
Sample Delivery Group (SDG)	320-109128-1	320-109128-1	320-109127-1	320-109127-1	320-109127-1	320-109127-1
Lab Sample ID	320-109128-2	320-109128-3	320-109127-6	320-109127-5	320-109127-2	320-109127-3
<i>537 Mod (ng/L)</i>						
10:2 Fluorotelomer sulfonate	<84	<84	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<40	<40	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<58	<58	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<30	39	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<310	1,700 J	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<30	<30	<2.0	<2.0	<2.0	<2.0
DONA	<50	<50	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<54	<54	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<150	<150	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<25	<25	<2.0	4.8	4.6	<2.0
Perfluorobutanoic Acid	<300	<300	<5.0	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<40	<40	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<39	<39	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<69	<69	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<24	<24	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	68	99	<2.0	3.1	2.9	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<110	<110	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<71	<71	<2.0	2.9	2.8	<2.0
Perfluorohexanoic Acid	<73	<73	<2.0	7.3	7.4	<2.0
Perfluorononanesulfonic Acid	<46	<46	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<34	<34	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<120	<120	<2.0 UJ	<2.0 UJ	<2.0 UJ	<2.0 UJ
Perfluorooctane Sulfonamide	<120	<120	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<38	<38	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	360	350	6.7	7.2	6.9	<2.0
Perfluorotetradecanoic Acid	<91	<91	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<160	<160	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<140	<140	<2.0	<2.0	<2.0	<2.0
PFOA	<110	<110	<2.0	6.9	6.4	<2.0
PFOS	<68	70	<2.0	9.9	8.9	<2.0

**TABLE B2
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	SEEP-B-EFF	SEEP-C-EFF	SEEP-D-EFF	WC-6
Field Sample ID	CAP1Q24-SEEP-B-EFF-24-012624	CAP1Q24-SEEP-C-EFF-24-012524	CAP1Q24-SEEP-D-EFF-24-012624	CAP1Q24-WC-6-24-012524
Sample Date	1/26/2024	1/25/2024	1/26/2024	1/25/2024
QA/QC				
Sample Delivery Group (SDG)	320-109219-1	320-109127-1	320-109219-1	320-109127-1
Lab Sample ID	320-109219-1	320-109127-4	320-109219-2	320-109127-1
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0	7.3
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0	2.8
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0 UJ	<2.0	<2.0 UJ
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0	6.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0	4.6
PFOS	<2.0	<2.0	<2.0	<2.0

**TABLE B2
SEEP AND SURFACE WATER OTHER PFAS ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina**

Location ID	EB	EB
Field Sample ID	CAP1Q24-EQBLK-IS-012524	CAP1Q24-EQBLK-PP-012524
Sample Date	1/25/2024	1/25/2024
QA/QC	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-109127-1	320-109127-1
Lab Sample ID	320-109127-9	320-109127-8
537 Mod (ng/L)		
10:2 Fluorotelomer sulfonate	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0
DONA	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0
Perfluorobutanoic Acid	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0 UJ	<2.0 UJ
Perfluorooctane Sulfonamide	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0
PFOA	<2.0	<2.0
PFOS	<2.0	<2.0

Notes:
 Bold - Analyte detected above associated reporting limit
 B - Analyte detected in an associated blank
 EPA - Environmental Protection Agency
 J - Analyte detected. Reported value may not be accurate or precise
 UJ - Analyte not detected. Reporting limit may not be accurate or precise.
 ng/L - nanograms per liter
 QA/QC - Quality assurance/ quality control
 < - Analyte not detected above associated reporting limit.
 -- - Not measured / Not Applicable

TABLE B3
FLOW SUMMARY FOR CAPE FEAR RIVER LOCATIONS
Chemours Fayetteville Works, North Carolina

Q1 2024 Quarterly Event	Pathway/ Location	Sample Collection Timepoint	Flow Gauging Location ¹	Travel Time Offset (hr) ²	Adjusted Flow Gauging Timepoint	Composite Sample 24 Hour Flow Volume (MGD) ³	Grab Sample Instantaneous Flow Rate (ft ³ /s) ⁴
January 2024	Upstream River Water and Groundwater	01/24/24 9:15	William O Huske Lock and Dam	--	01/24/24 9:15	--	10,844
	Tarheel (Grab Sample)	01/24/24 14:10	William O Huske Lock and Dam	3	01/24/24 11:00	--	10,900
	Tarheel (Composite Sample)	01/25/24 10:24	William O Huske Lock and Dam	3	01/25/24 7:00	6,570	--
	Bladen Bluff	01/24/24 13:50	William O Huske Lock and Dam	2	01/24/24 11:30	--	10,800
	Kings Bluff	01/25/24 12:07	Cape Fear River Lock and Dam #1	--	01/25/24 12:07	--	11,200

Notes:

- 1 - Flow rate measured at USGS gauging station #02105500 located at William O Huske Lock & Dam and USGS gauging station # 02105769 located at Lock and Dam #1 near Kelly, North Carolina.
- 2 - Flow rates measured at William O Huske Lock and Dam were used for mass loading assessments at Tar heel and Bladen Bluff sample locations. Travel times between William O Huske Lock and Dam and the downstream locations were estimated based on the results of a numerical model of the Cape Fear River developed by Geosyntec which developed a regression curve between the USGS reported gage heights at William O Huske Lock and Dam and travel times.
- 3 - Total flow volume for composite samples is based on measurements taken over 24-hour sample collection period.
- 4 - Instantaneous flow rate for grab samples is the recorded flow rate at the time of grab sample collection.

Acronyms:

- ft³/s - cubic feet per second
- hr - hours
- MGD - millions of gallons per day

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft³/sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in)¹
1/24/2024 0:00	11900	80,116,155	6.14	0
1/24/2024 0:15	11900	80,116,155	6.14	0
1/24/2024 0:30	11900	80,116,155	6.14	0
1/24/2024 0:45	11900	80,116,155	6.13	0
1/24/2024 1:00	11900	80,116,155	6.13	0
1/24/2024 1:15	11900	80,116,155	6.13	0
1/24/2024 1:30	11900	80,116,155	6.13	0
1/24/2024 1:45	11900	80,116,155	6.13	0
1/24/2024 2:00	11800	79,442,910	6.11	0
1/24/2024 2:15	11800	79,442,910	6.11	0
1/24/2024 2:30	11800	79,442,910	6.11	0
1/24/2024 2:45	11800	79,442,910	6.11	0
1/24/2024 3:00	11800	79,442,910	6.1	0
1/24/2024 3:15	11800	79,442,910	6.1	0
1/24/2024 3:30	11700	78,769,665	6.09	0
1/24/2024 3:45	11700	78,769,665	6.09	0
1/24/2024 4:00	11700	78,769,665	6.08	0
1/24/2024 4:15	11700	78,769,665	6.07	0
1/24/2024 4:30	11700	78,769,665	6.07	0
1/24/2024 4:45	11700	78,769,665	6.06	0
1/24/2024 5:00	11600	78,096,420	6.05	0
1/24/2024 5:15	11600	78,096,420	6.04	0
1/24/2024 5:30	11500	77,423,175	6.02	0
1/24/2024 5:45	11600	78,096,420	6.03	0
1/24/2024 6:00	11500	77,423,175	6.01	0
1/24/2024 6:15	11500	77,423,175	6	0
1/24/2024 6:30	11500	77,423,175	6	0
1/24/2024 6:45	11400	76,749,930	5.99	0
1/24/2024 7:00	11400	76,749,930	5.98	0
1/24/2024 7:15	11400	76,749,930	5.97	0
1/24/2024 7:30	11400	76,749,930	5.96	0
1/24/2024 7:45	11300	76,076,685	5.95	0
1/24/2024 8:00	11300	76,076,685	5.93	0
1/24/2024 8:15	11200	75,403,440	5.92	0
1/24/2024 8:30	11200	75,403,440	5.92	0
1/24/2024 8:45	11200	75,403,440	5.9	0
1/24/2024 9:00	11100	74,730,195	5.88	0
1/24/2024 9:15	11100	74,730,195	5.87	0
1/24/2024 9:30	11000	74,056,950	5.85	0
1/24/2024 9:45	11100	74,730,195	5.86	0
1/24/2024 10:00	11000	74,056,950	5.85	0
1/24/2024 10:15	11000	74,056,950	5.84	0
1/24/2024 10:30	11000	74,056,950	5.83	0
1/24/2024 10:45	10900	73,383,705	5.82	0
1/24/2024 11:00	10900	73,383,705	5.81	0
1/24/2024 11:15	10900	73,383,705	5.8	0
1/24/2024 11:30	10800	72,710,460	5.79	0
1/24/2024 11:45	10800	72,710,460	5.79	0
1/24/2024 12:00	10800	72,710,460	5.78	0
1/24/2024 12:15	10800	72,710,460	5.76	0
1/24/2024 12:30	10700	72,037,215	5.75	0
1/24/2024 12:45	10700	72,037,215	5.74	0

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft³/sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in)¹
1/24/2024 13:00	10700	72,037,215	5.73	0
1/24/2024 13:15	10600	71,363,970	5.72	0
1/24/2024 13:30	10600	71,363,970	5.71	0
1/24/2024 13:45	10600	71,363,970	5.7	0
1/24/2024 14:00	10600	71,363,970	5.7	0
1/24/2024 14:15	10600	71,363,970	5.69	0
1/24/2024 14:30	10500	70,690,725	5.67	0
1/24/2024 14:45	10500	70,690,725	5.67	0
1/24/2024 15:00	10500	70,690,725	5.67	0
1/24/2024 15:15	10500	70,690,725	5.66	0
1/24/2024 15:30	10400	70,017,480	5.65	0
1/24/2024 15:45	10400	70,017,480	5.64	0
1/24/2024 16:00	10400	70,017,480	5.63	0
1/24/2024 16:15	10300	69,344,235	5.62	0
1/24/2024 16:30	10300	69,344,235	5.62	0
1/24/2024 16:45	10300	69,344,235	5.61	0
1/24/2024 17:00	10300	69,344,235	5.6	0
1/24/2024 17:15	10300	69,344,235	5.6	0
1/24/2024 17:30	10200	68,670,990	5.58	0
1/24/2024 17:45	10200	68,670,990	5.58	0
1/24/2024 18:00	10200	68,670,990	5.57	0
1/24/2024 18:15	10200	68,670,990	5.56	0
1/24/2024 18:30	10200	68,670,990	5.56	0
1/24/2024 18:45	10100	67,997,745	5.55	0
1/24/2024 19:00	10100	67,997,745	5.55	0
1/24/2024 19:15	10100	67,997,745	5.54	0
1/24/2024 19:30	10100	67,997,745	5.53	0
1/24/2024 19:45	10100	67,997,745	5.53	0
1/24/2024 20:00	10100	67,997,745	5.52	0
1/24/2024 20:15	10100	67,997,745	5.52	0
1/24/2024 20:30	10000	67,324,500	5.51	0
1/24/2024 20:45	10000	67,324,500	5.5	0
1/24/2024 21:00	10000	67,324,500	5.5	0
1/24/2024 21:15	9970	67,122,527	5.49	0
1/24/2024 21:30	9970	67,122,526	5.49	0
1/24/2024 21:45	9970	67,122,526	5.49	0
1/24/2024 22:00	9920	66,785,904	5.47	0
1/24/2024 22:15	9920	66,785,904	5.47	0
1/24/2024 22:30	9950	66,987,877	5.48	0
1/24/2024 22:45	9920	66,785,904	5.47	0
1/24/2024 23:00	9920	66,785,904	5.47	0
1/24/2024 23:15	9860	66,381,957	5.45	0
1/24/2024 23:30	9890	66,583,931	5.46	0
1/24/2024 23:45	9830	66,179,983	5.44	0
1/25/2024 0:00	9860	66,381,957	5.45	0
1/25/2024 0:15	9800	65,978,010	5.43	0
1/25/2024 0:30	9770	65,776,036	5.42	0
1/25/2024 0:45	9770	65,776,036	5.42	0
1/25/2024 1:00	9770	65,776,037	5.42	0
1/25/2024 1:15	9750	65,641,387	5.41	0
1/25/2024 1:30	9690	65,237,440	5.39	0
1/25/2024 1:45	9690	65,237,441	5.39	0

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft³/sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in)¹
1/25/2024 2:00	9660	65,035,467	5.38	0
1/25/2024 2:15	9660	65,035,467	5.38	0
1/25/2024 2:30	9630	64,833,494	5.37	0
1/25/2024 2:45	9630	64,833,493	5.37	0
1/25/2024 3:00	9600	64,631,520	5.36	0
1/25/2024 3:15	9600	64,631,520	5.36	0
1/25/2024 3:30	9580	64,496,871	5.35	0
1/25/2024 3:45	9580	64,496,871	5.35	0
1/25/2024 4:00	9520	64,092,924	5.33	0
1/25/2024 4:15	9520	64,092,924	5.33	0.01
1/25/2024 4:30	9520	64,092,924	5.33	0
1/25/2024 4:45	9520	64,092,924	5.33	0
1/25/2024 5:00	9460	63,688,977	5.31	0
1/25/2024 5:15	9440	63,554,328	5.3	0
1/25/2024 5:30	9410	63,352,355	5.29	0
1/25/2024 5:45	9410	63,352,354	5.29	0
1/25/2024 6:00	9410	63,352,354	5.29	0
1/25/2024 6:15	9380	63,150,381	5.28	0
1/25/2024 6:30	9350	62,948,407	5.27	0
1/25/2024 6:45	9350	62,948,407	5.27	0
1/25/2024 7:00	9350	62,948,408	5.27	0
1/25/2024 7:15	9320	62,746,434	5.26	0
1/25/2024 7:30	9300	62,611,785	5.25	0.01
1/25/2024 7:45	9300	62,611,785	5.25	0
1/25/2024 8:00	9270	62,409,811	5.24	0
1/25/2024 8:15	9240	62,207,838	5.23	0
1/25/2024 8:30	9210	62,005,865	5.22	0
1/25/2024 8:45	9210	62,005,864	5.22	0
1/25/2024 9:00	9180	61,803,891	5.21	0
1/25/2024 9:15	9180	61,803,891	5.21	0
1/25/2024 9:30	9180	61,803,891	5.21	0
1/25/2024 9:45	9160	61,669,242	5.2	0
1/25/2024 10:00	9160	61,669,242	5.2	0
1/25/2024 10:15	9160	61,669,242	5.2	0
1/25/2024 10:30	9100	61,265,295	5.18	0
1/25/2024 10:45	9100	61,265,295	5.18	0.01
1/25/2024 11:00	9100	61,265,295	5.18	0
1/25/2024 11:15	9100	61,265,295	5.18	0
1/25/2024 11:30	9070	61,063,322	5.17	0
1/25/2024 11:45	9070	61,063,321	5.17	0
1/25/2024 12:00	9070	61,063,321	5.17	0
1/25/2024 12:15	9050	60,928,673	5.16	0
1/25/2024 12:30	9050	60,928,672	5.16	0
1/25/2024 12:45	9020	60,726,699	5.15	0
1/25/2024 13:00	8990	60,524,726	5.14	0
1/25/2024 13:15	8990	60,524,725	5.14	0
1/25/2024 13:30	8990	60,524,725	5.14	0
1/25/2024 13:45	8960	60,322,752	5.13	0
1/25/2024 14:00	8960	60,322,752	5.13	0
1/25/2024 14:15	8960	60,322,752	5.13	0
1/25/2024 14:30	8940	60,188,103	5.12	0
1/25/2024 14:45	8960	60,322,752	5.13	0

TABLE B4
FLOW DATA FOR W.O'HUSKE LOCK NR TAR HEEL, NC
Chemours Fayetteville Works, North Carolina

Date and Time	Flow Rate (ft ³ /sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in) ¹
1/25/2024 15:00	8940	60,188,103	5.12	0
1/25/2024 15:15	8940	60,188,103	5.12	0.06
1/25/2024 15:30	8910	59,986,129	5.11	0
1/25/2024 15:45	8910	59,986,129	5.11	0
1/25/2024 16:00	8910	59,986,130	5.11	0
1/25/2024 16:15	8850	59,582,182	5.09	0
1/25/2024 16:30	8880	59,784,156	5.1	0
1/25/2024 16:45	8850	59,582,183	5.09	0
1/25/2024 17:00	8880	59,784,156	5.1	0
1/25/2024 17:15	8850	59,582,182	5.09	0
1/25/2024 17:30	8850	59,582,183	5.09	0
1/25/2024 17:45	8830	59,447,533	5.08	0
1/25/2024 18:00	8830	59,447,533	5.08	0
1/25/2024 18:15	8830	59,447,534	5.08	0
1/25/2024 18:30	8830	59,447,533	5.08	0
1/25/2024 18:45	8800	59,245,560	5.07	0
1/25/2024 19:00	8830	59,447,534	5.08	0
1/25/2024 19:15	8800	59,245,560	5.07	0.01
1/25/2024 19:30	8800	59,245,560	5.07	0
1/25/2024 19:45	8800	59,245,560	5.07	0
1/25/2024 20:00	8800	59,245,560	5.07	0
1/25/2024 20:15	8770	59,043,586	5.06	0
1/25/2024 20:30	8770	59,043,587	5.06	0
1/25/2024 20:45	8770	59,043,586	5.06	0
1/25/2024 21:00	8770	59,043,586	5.06	0
1/25/2024 21:15	8770	59,043,587	5.06	0
1/25/2024 21:30	8770	59,043,586	5.06	0
1/25/2024 21:45	8740	58,841,613	5.05	0
1/25/2024 22:00	8770	59,043,587	5.06	0
1/25/2024 22:15	8770	59,043,586	5.06	0
1/25/2024 22:30	8740	58,841,613	5.05	0
1/25/2024 22:45	8720	58,706,964	5.04	0
1/25/2024 23:00	8740	58,841,613	5.05	0
1/25/2024 23:15	8740	58,841,613	5.05	0
1/25/2024 23:30	8720	58,706,964	5.04	0
1/25/2024 23:45	8720	58,706,964	5.04	0

Notes

Measurements are recorded from the USGS flow gauging station at the W.O. Huske Dam, ID 02105500 (USGS, 2021).

1 - The minimum value recorded by a USGS raingage is 0.01 inches. Anything detected below this threshold is recorded as zero inches.

ft³/sec - cubic feet per second

ft - feet

gal - gallons

in - inches

USGS - United States Geological Survey

TABLE B5
FLOW DATA FOR LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	Time	Discharge (cubic ft/sec)	Seconds	Volume (gal)
1/25/2024	2:45	11,800	8100	714,986,190
1/25/2024	5:00	--	900	0
1/25/2024	5:15	--	900	0
1/25/2024	5:30	11,700	900	78,769,665
1/25/2024	5:45	11,600	900	78,096,420
1/25/2024	6:00	11,600	900	78,096,420
1/25/2024	6:15	11,700	900	78,769,665
1/25/2024	6:30	11,600	900	78,096,420
1/25/2024	6:45	11,600	900	78,096,420
1/25/2024	7:00	11,600	900	78,096,420
1/25/2024	7:15	11,500	900	77,423,175
1/25/2024	7:30	11,500	900	77,423,175
1/25/2024	7:45	11,500	900	77,423,175
1/25/2024	8:00	11,500	900	77,423,175
1/25/2024	8:15	11,500	900	77,423,175
1/25/2024	8:30	11,500	900	77,423,175
1/25/2024	8:45	11,400	900	76,749,930
1/25/2024	9:00	11,400	900	76,749,930
1/25/2024	9:15	11,400	900	76,749,930
1/25/2024	9:30	11,400	900	76,749,930
1/25/2024	9:45	11,300	900	76,076,685
1/25/2024	10:00	11,300	900	76,076,685
1/25/2024	10:15	11,300	900	76,076,685
1/25/2024	10:30	11,400	900	76,749,930
1/25/2024	10:45	11,300	900	76,076,685
1/25/2024	11:00	11,300	900	76,076,685
1/25/2024	11:15	11,300	900	76,076,685
1/25/2024	11:30	11,300	900	76,076,685
1/25/2024	11:45	11,300	900	76,076,685
1/25/2024	12:00	11,200	900	75,403,440
1/25/2024	12:15	11,200	900	75,403,440
1/25/2024	12:30	11,200	900	75,403,440
1/25/2024	12:45	11,200	900	75,403,440
1/25/2024	13:00	11,200	900	75,403,440
1/25/2024	13:15	11,100	900	74,730,195
1/25/2024	13:30	11,100	900	74,730,195
1/25/2024	13:45	11,100	900	74,730,195
1/25/2024	14:00	11,100	900	74,730,195
1/25/2024	14:15	11,100	900	74,730,195
1/25/2024	14:30	11,100	900	74,730,195
1/25/2024	14:45	11,100	900	74,730,195
1/25/2024	15:00	11,100	900	74,730,195
1/25/2024	15:15	11,000	900	74,056,950
1/25/2024	15:30	11,000	900	74,056,950
1/25/2024	15:45	11,000	900	74,056,950
1/25/2024	16:00	11,000	900	74,056,950
1/25/2024	16:15	11,000	900	74,056,950
1/25/2024	16:30	11,000	900	74,056,950
1/25/2024	16:45	11,000	900	74,056,950
1/25/2024	17:00	10,900	900	73,383,705
1/25/2024	17:15	10,900	900	73,383,705

TABLE B5
FLOW DATA FOR LOCK #1 NR KELLY, NC
Chemours Fayetteville Works, North Carolina

Date	Time	Discharge (cubic ft/sec)	Seconds	Volume (gal)
1/25/2024	17:30	10,900	900	73,383,705
1/25/2024	17:45	10,900	900	73,383,705
1/25/2024	18:00	10,900	900	73,383,705
1/25/2024	18:15	10,800	900	72,710,460
1/25/2024	18:30	10,800	900	72,710,460
1/25/2024	18:45	10,800	900	72,710,460
1/25/2024	19:00	10,800	900	72,710,460
1/25/2024	19:15	10,800	900	72,710,460
1/25/2024	19:30	10,700	900	72,037,215
1/25/2024	19:45	10,800	900	72,710,460
1/25/2024	20:00	10,800	900	72,710,460
1/25/2024	20:15	10,700	900	72,037,215
1/25/2024	20:30	10,700	900	72,037,215
1/25/2024	20:45	10,700	900	72,037,215
1/25/2024	21:00	10,600	900	71,363,970
1/25/2024	21:15	10,600	900	71,363,970
1/25/2024	21:30	10,600	900	71,363,970
1/25/2024	21:45	10,600	900	71,363,970
1/25/2024	22:00	10,600	900	71,363,970
1/25/2024	22:15	10,600	900	71,363,970
1/25/2024	22:30	10,600	900	71,363,970
1/25/2024	22:45	10,500	900	70,690,725
1/25/2024	23:00	10,500	900	70,690,725
1/25/2024	23:15	10,500	900	70,690,725
1/25/2024	23:30	10,500	900	70,690,725
1/25/2024	23:45	10,500	900	70,690,725

Notes

Measurements are recorded from the USGS flow gauging station at Lock #1 near Kelly, ID 02105769 (USGS, 2021).

ft³/sec - cubic feet per second

ft - feet

gal - gallons

USGS - United States Geological Survey

TABLE B6
Table 3+ PFAS MASS DISCHARGE AT DOWNSTREAM LOCATIONS
Chemours Fayetteville Works, North Carolina

Pathway Number	--	--	--	--
Pathway Name	Tar Heel Ferry Road Bridge ^{1,2}	Tar Heel Ferry Road Bridge ¹	Bladen Bluff ²	Kings Bluff ²
Flow (MG)	--	6,570	--	--
Instantaneous Flow (ft ³ /sec)	10,900	--	10,800	11,200
Program	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24	CAP SW Sampling 1Q24
Location ID	CFR-TARHEEL	CFR-TARHEEL	CFR-BLADEN	CFR-KINGS
Field Sample ID	CAPIQ24-CFR-TARHEEL-012424	CAPIQ24-CFR-TARHEEL-24-012524	CAPIQ24-CFR-BLADEN-012424	CAPIQ24-CFR-KINGS-012524
Sample Date and Time ¹	1/24/2024	1/25/2024	1/24/2024	1/25/2024
Sample Delivery Group (SDG)	320-109128-1	320-109127-1	320-109128-1	320-109128-1
Lab Sample ID	320-109128-6	320-109127-7	320-109128-5	320-109128-7
Sample Type	Grab	Composite	Grab	Grab
<i>Table 3+ Mass Discharge³ (mg/s)</i>				
HFPO-DA	ND	ND	ND	ND
PFMOAA	ND	0.63	ND	0.98
PFO2HxA	ND	ND	ND	ND
PFO3OA	ND	ND	ND	ND
PFO4DA	ND	ND	ND	ND
PFO5DA	ND	ND	ND	ND
PMPA	0.68	0.60	0.70	0.67
PEPA	ND	ND	ND	ND
PS Acid	ND	ND	ND	ND
Hydro-PS Acid	ND	ND	ND	ND
R-PSDA	ND	ND	ND	ND
Hydrolyzed PSDA	ND	ND	ND	ND
R-PSDCA	ND	ND	ND	ND
NVHOS, Acid Form	ND	ND	ND	ND
EVE Acid	ND	ND	ND	ND
Hydro-EVE Acid	ND	ND	ND	ND
R-EVE	ND	ND	ND	ND
PES	ND	ND	ND	ND
PFECA B	ND	ND	ND	ND
PFECA-G	ND	ND	ND	ND
PFPrA	3.70	3.45	3.67	3.81
Total Attachment C Mass Discharge^{4,5}	0.68	1.24	0.70	1.65
Total Table 3+ Mass Discharge (17 compounds)^{4,6}	0.68	1.24	0.70	1.65
Total Table 3+ Mass Discharge (18 compounds)^{4,7}	4.32	4.61	4.28	5.39
Total Table 3+ Mass Discharge (21 compounds)⁴	4.32	4.61	4.28	5.39

Notes:

- 1 - A paired composite sample was collected at Tar Heel Ferry Road Bridge on July 27, 2023.
- 2 - Mass discharge values for grab samples collected at Tar Heel Ferry Road Bridge, Bladen Bluff, and Kings Bluff are determined based on instantaneous flow rates.
- 3 - Mass discharge by analyte is calculated based on Table 3+ concentrations in Table 3, and 24-hour flow volumes reported in Table B5.
- 4 - Total PFAS mass discharge is based on the summed Total PFAS concentrations reported in Table 3, which are rounded to two significant figures.
- 5 - Total Attachment C does not include Perfluoroheptanoic acid (PFHpA).
- 6 - Total Table 3+ (17 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, R-EVE, and PFPrA.
- 7 - Total Table 3+ (18 compounds) does not include Perfluoroheptanoic acid (PFHpA), R-PSDA, Hydrolyzed PSDA, and R-EVE.

Bold - Analyte detected above associated reporting limit
 ft³/sec - cubic feet per second
 mg/s - milligrams per second
 ND - Analyte not detected above associated reporting limit.

Appendix C

Field Forms

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-010324	01-03-2024	13:05	01-03-2024	13:10	6.80	9.02	42.30	32.90	205.44	14.23	Clear with particulates	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	53.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm)



GPS Location (if collected)

General Comment:

Sampling Comments:



Staff gauge



ISCOs back up

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-010524	01-05-2024	11:35	01-05-2024	11:35	6.75	9.67	145.30	51.80	187.16	12.98	Cloudy	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	39.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

Latitude:
 Longitude:

Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

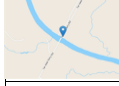
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-010824	01-08-2024	10:05	01-08-2024	09:59	7.69	11.48	193.80	121.00	107.50	10.95	Murky	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	42.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	6

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-010924	01-09-2024 23:01	01-10-2024 12:37			7.59	9.54	154.40	72.20	98.94	14.16	Murky	None	DUPIMSIMSD

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

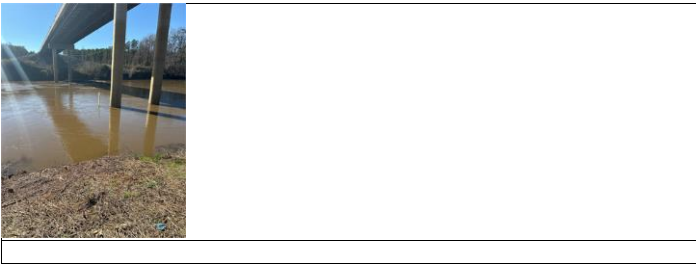
WEATHER CONDITIONS	
Temperature (F):	47.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	16

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

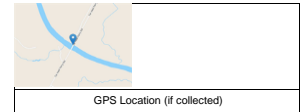
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-011124	01-11-2024	15:30	01-11-2024	15:31	8.70	10.03	122.80	298.00	6.72	17.07	Cloudy/ Brown	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	0

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-011224	01-12-2024	08:50	01-12-2024	09:01	7.79	10.51	77.80	211.00	203.79	8.45	Light tan	None	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	36.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



ISCO shed



Rising river

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

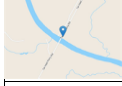
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-011624	01-16-2024	11:20	01-16-2024	11:21	7.12	11.09	118.30	245.02	196.36	11.53	Tan cloudy	None	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

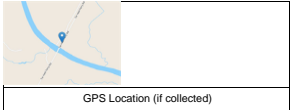
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-011824	01-18-2024	23:01	01-19-2024	09:10	8.11	9.84	9.60	75.50	314.26	11.03	Cloudy	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	48.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

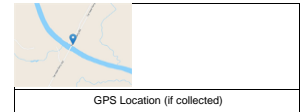
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-012024	01-20-2024	23:01	01-23-2024	14:00	6.29	11.81	80.60	57.20	161.41	10.36	Murky	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



Staff gauge



ISCO

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

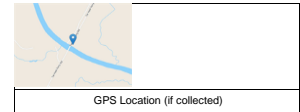
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-012424	01-24-2024	23:01	01-26-2024	11:39	7.88	3.73	60.60	32.30	190154.00	22.23	Cloudy	No	-

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

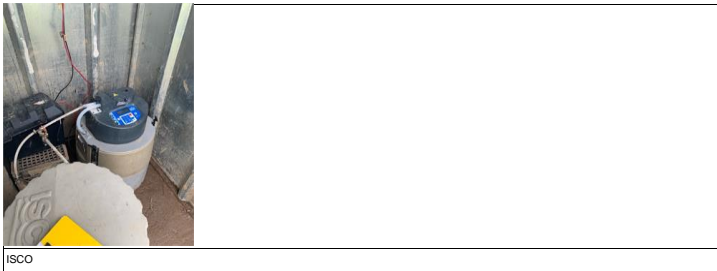
WEATHER CONDITIONS	
Temperature (F):	72.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	11

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

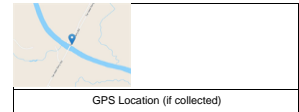
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-013024	01-30-2024	15:15	01-30-2024	15:10	7.46	10.43	74.10	126.00	187.78	15.61	Hazy tan	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	57.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

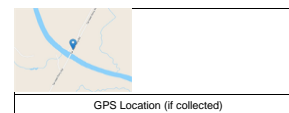
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-020124	02-01-2024	23:01	02-02-2024	09:24	8.49	6.86	41.10	99.60	1199.00	18.45	Cloudy	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	44.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	S

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

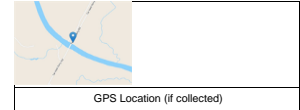
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-020524	02-05-2024	23:01	02-06-2024	14:06	8.51	5.44	-74.00	46.40	355.64	19.08	Cloudy	None	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	18

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
		0				mg/L	mV	NTU	µS/cm	°C			

Sampling Data
 Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):

GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-020824	02-08-2024	23:01	02-09-2024	09:21	7.99	9.88	-19.40	40.30	462.57	10.84	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

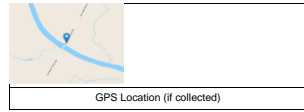
Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-021224	02-12-2024	23:01	02-13-2024	09:13	8.17	9.63	-8.90	20.60	519.67	14.28	Clear	No	DUP MS MSD

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

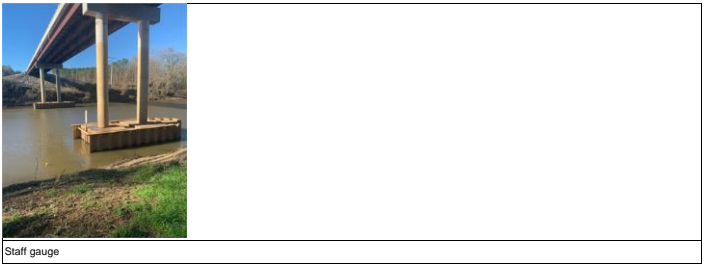
WEATHER CONDITIONS	
Temperature (F):	54.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	21

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-021924	02-19-2024	23:01	02-23-2024	09:28	8.22	7.31	-2.40	17.50	223.55	19.00	Clear	No	--

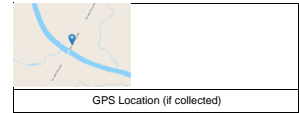
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

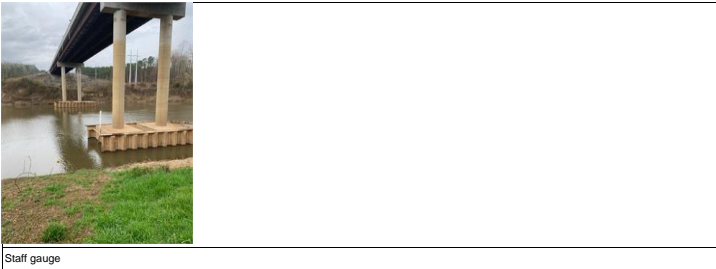
Temperature (F):	58.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	17

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: <input type="text" value="Chemours Fayetteville"/>	Location ID: <input type="text" value="CFR-TARHEEL"/>	Project Manager: <input type="text" value="Tracy Ovbey"/>
Samplers: <input type="text" value="DEBORAH AYERS SAIRA BOHAM "/>	Sampling Event: <input type="text" value="Weekly River"/>	Event Type: <input type="text" value="Sampling"/>
Date: <input type="text" value="02-23-2024"/>	Time: <input type="text" value="09:09"/>	

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-022224	02-22-2024	23:01	02-23-2024	09:28	8.22	7.31	-2.40	17.50	223.55	19.00	Clear	No	--

Sampling Data

Sampling Method: <input type="text" value="ISCO Composite"/>	Multi Meter Used: <input type="text" value="Insitu Aqua Troll"/>
ISCO Start Date and Time: <input type="text" value="02-22-2024 00:01"/>	Multi Meter ID: <input type="text" value="766679"/>
ISCO End Date and Time: <input type="text" value="02-22-2024 23:01"/>	

WEATHER CONDITIONS	
Temperature (F):	58.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	17

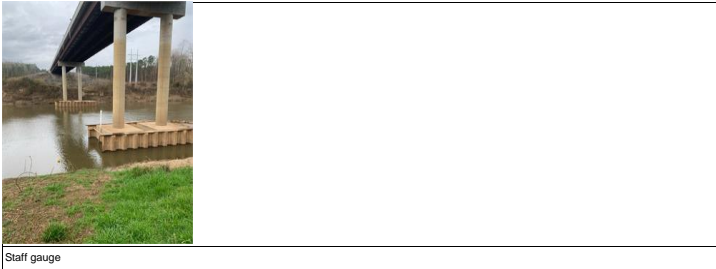
Latitude:	<input type="text" value="34.7454059408322"/>
Longitude:	<input type="text" value="-78.7850870649367"/>
Staff Gauge Water Level Reading (ft):	<input type="text" value="2.5"/>
Temperature Reading (degrees C):	<input type="text" value="14"/>
Rain Reading (mm)	<input type="text" value="0"/>



GPS Location (if collected)

General Comment:	<input type="text" value="Collected CFR-TARHEEL-24-021924, CFR-TARHEEL-24-022024, CFR-TARHEEL-24-022124, CFR-TARHEEL-24-022224; no errors"/>
------------------	--

Sampling Comments:	<input type="text"/>
--------------------	----------------------



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-022624	02-26-2024	23:01	02-27-2024	11:30	8.30	8.78	20.00	15.90	382.36	14.78	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	63.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	13

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
--		0	--	--	--	--	--	--	--	--	--	--	--

Sampling Data
 Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	63.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	15

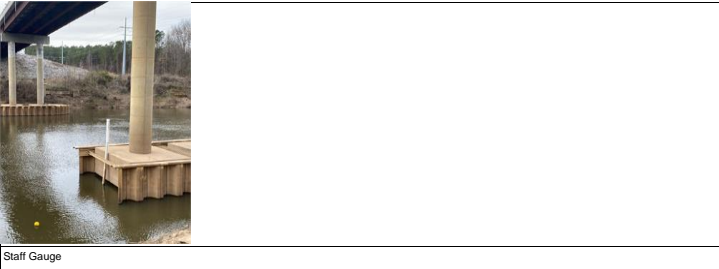
Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-022924	02-29-2024	23:01	03-01-2024	09:50	8.40	7.74	-11.10	13.10	320.53	14.19	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	49.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	6

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO mg/L	Redox mV	Turbidity NTU	Spec. Cond. µS/cm	Temp. °C	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-030424	03-04-2024	23:01	03-05-2024	11:44	8.55	7.27	-40.90	93.30	682.74	24.87	Slightly cloudy with particles	None	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	66.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	0

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



ISCOs



Staff gauge

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-030724	03-07-2024	00:01	03-08-2024	09:45	8.09	7.89	28.90	52.60	173.67	17.00	Clear	None	--

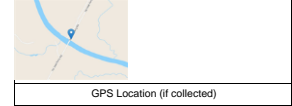
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	59.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	g

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-031224	03-12-2024	23:15	03-12-2024	09:52	8.10	7.16	14.60	55.30	321.27	17.63	Cloudy	None	DUP MS MSD

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	56.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: CFR-TARHEEL Project Manager: Tracy Ovbey
 Samplers: SAIRA BOHAM/TIM SMITH Sampling Event: Weekly River Event Type: Sampling
 Date: 03-15-2024 Time: 09:32

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-031424	03-14-2024	23:01	03-15-2024	09:45	7.12	8.54	29.20	60.50	111.29	17.48	Clear	No	--

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 03-14-2024 00:01 Multi Meter ID: 706720
 ISCO End Date and Time: 03-14-2024 23:01

WEATHER CONDITIONS	
Temperature (F):	62.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	g

Latitude: 34.7449283203166
 Longitude: -78.7851028542682
 Staff Gauge Water Level Reading (ft): 7
 Temperature Reading (degrees C): 24
 Rain Reading (mm): 0



General Comment: Collected CFR-TARHEEL-24-031224 , CFR-TARHEEL-24-031324 , and CFR-TARHEEL-24-031424 ; no errors

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-031824	03-18-2024	23:01	03-19-2024	09:40	7.22	8.38	68.30	25.20	887.83	11.79	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	40.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	8

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-032124	03-21-2024	23:01	03-22-2024	09:12	7.23	9.65	36.40	15.40	155.55	13.98	Clear	No	--

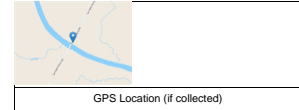
Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS

Temperature (F):	52.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph):	3

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:


Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-032524	03-25-2024	23:01	03-26-2024	11:41	6.84	9.49	144.80	13.00	113.99	16.23	Clear	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	57.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	4

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:


Spl ID	Spl Date	Time	Parameters		pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
			Date	Time									
CFR-TARHEEL-24-032824	03-28-2024	23:01	03-29-2024	10:01	7.57	9.89	30.00	85.10	161.34	15.59	Cloudy	No	--

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	46.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:
 Longitude:
 Staff Gauge Water Level Reading (ft):
 Temperature Reading (degrees C):
 Rain Reading (mm):



GPS Location (if collected)

General Comment:

Sampling Comments:



Staff gauge



ISCOs before removal

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-CFR-BLADEN-012424	01-24-2024	13:50	7.18	11.37	53.30	35.40	238.05	14.37	Clear	No	--

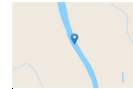
Sampling Data

Sampling Method: Tubing Depth (ft): Distance to River Right:
 Sampling Location: Multi Meter Used: Distance to River Left:
 Total Depth to Bottom of Channel (ft): Multi Meter ID: Distance to River (Right/Left) Units:

WEATHER CONDITIONS

Temperature (F):	<input type="text" value="70.00"/>
Sky:	<input type="text" value="Partly Cloudy"/>
Precipitation:	<input type="text" value="None"/>
Wind (mph)	<input type="text" value="8"/>

Latitude:
 Longitude:



GPS Location (if collected)

General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-CFR-KINGS-012524	01-25-2024 12:07		7.97	10.52	46.50	38.20	130.17	15.30	Cloudy	No	--

Sampling Data

Sampling Method: Tubing Depth (ft): Distance to River Right:
 Sampling Location: Multi Meter Used: Distance to River Left:
 Total Depth to Bottom of Channel (ft): Multi Meter ID: Distance to River (Right/Left) Units:

WEATHER CONDITIONS

Temperature (F):	<input type="text" value="72.00"/>
Sky:	<input type="text" value="Cloudy"/>
Precipitation:	<input type="text" value="Rain"/>
Wind (mph)	<input type="text" value="11"/>

Latitude:
 Longitude:



GPS Location (if collected)

General Comments:

Sample Comments:



River R



River L

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

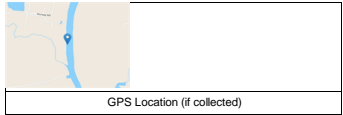
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-CFR-RM-76-012424	01-24-2024	09:15	7.49	6.90	110.60	33.20	628.60	8.93	Clear	No	--

Sampling Data

Sampling Method: Tubing Depth (ft): Distance to River Right:
 Sampling Location: Multi Meter Used: Distance to River Left:
 Total Depth to Bottom of Channel (ft): Multi Meter ID: Distance to River (Right/Left) Units:

WEATHER CONDITIONS	
Temperature (F):	<input type="text" value="52.00"/>
Sky:	<input type="text" value="Partly Cloudy"/>
Precipitation:	<input type="text" value="None"/>
Wind (mph)	<input type="text" value="6"/>

Latitude:
 Longitude:



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: CFR-TARHEEL Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|DEBORAH AYERS|Jacob K Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 01-24-2024 Time: 13:45

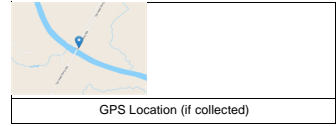
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAPT024-CFR-TARHEEL-24-012524	01-25-2024	10:24	7.54	9.80	118.80	39.20	126.47	14.81	Cloudy	No	--

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 01-24-2024 11:24 Multi Meter ID: 706720
 ISCO End Date and Time: 01-25-2024 10:24

WEATHER CONDITIONS	
Temperature (F):	70.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	12

Latitude: 34.7449602370951
 Longitude: -78.7851794738437

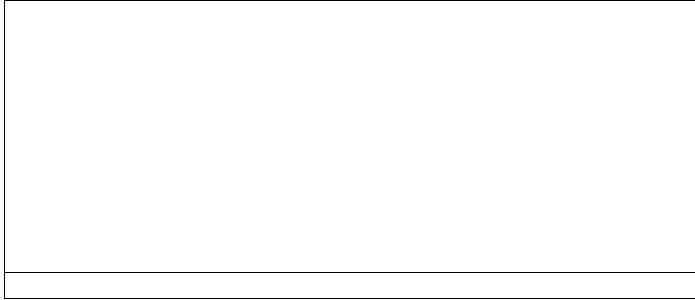


General Comments:

Sample Comments:



ISCO



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: CFR-TARHEEL Project Manager: Tracy Ovbey
 Samplers: KEN STUART|SAIRA BOHAMI Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 01-24-2024 Time: 14:00

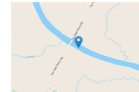
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAPT024-CFR-TARHEEL-012424	01-24-2024	14:10	7.23	10.86	79.70	64.00	153.74	13.34	Murky	None	--

Sampling Data

Sampling Method: Peri Pump Grab Multi Meter Used: Insitu Aqua Troll Flow Rate: --
 Water Quality Condition: Clear Multi Meter ID: 706682 Flow Rate Units: --

WEATHER CONDITIONS	
Temperature (F):	71.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	6

Latitude: 34.7439013866848
 Longitude: -78.7845913412687



GPS Location (if collected)

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General Comments:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
CAP1Q24-GBC-5-012424	01-24-2024	12:10	6.29	9.73	78.50	2.68	134.88	18.82	Clear	None	--

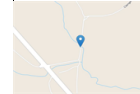
Sampling Data

Sampling Method: Multi Meter Used: Flow Rate:
 Water Quality Condition: Multi Meter ID: Flow Rate Units:

WEATHER CONDITIONS

Temperature (F):	65.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	8

Latitude:
 Longitude:



GPS Location (if collected)

--	--	--	--



General Comments:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-LOCK-DAM-NORTH-012424	--	--	--	--	--	--	--	--	--	--	--

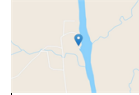
Sampling Data

Sampling Method: Multi Meter Used: Flow Rate:
 Water Quality Condition: Multi Meter ID: Flow Rate Units:

WEATHER CONDITIONS

Temperature (F):	68.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	16

Latitude:
 Longitude:



GPS Location (if collected)



No north seep



No north seep

General Comments:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-LOCK-DAM-SEEP-012424	01-24-2024	12:15	6.66	6.51	203.00	21.60	472.13	16.10	Clear	None	DUP MS MSD

Sampling Data

Sampling Method: Multi Meter Used: Flow Rate:
 Water Quality Condition: Multi Meter ID: Flow Rate Units:

WEATHER CONDITIONS

Temperature (F):	68.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	16

Latitude:
 Longitude:



GPS Location (if collected)



Seep coming out of trees



Seep heading into river

General Comments:

Sampling Comments:

SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: OLDFOF-1B Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|DEBORAH AYERS|Jacob K Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 01-24-2024 Time: 10:48

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-OLDFOF-1B-24-012524	01-25-2024	07:36	8.08	8.43	4.90	5.21	290.47	17.59	Clear	No	--

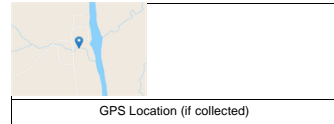
Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 01-24-2024 08:36 Multi Meter ID: 706720
 ISCO End Date and Time: 01-25-2024 07:36

WEATHER CONDITIONS

Temperature (F):	60.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	9

Latitude: 34.8330022391544
 Longitude: -78.824949962535



General Comments:

Sample Comments:



ISCO

SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: OUTFALL 002 Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|DEBORAH AYERS|Jacob K Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 01-24-2024 Time: 09:53

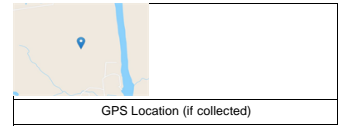
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1024-OUTFALL-002-24-012524	01-25-2024	07:24	7.89	9.43	78.50	29.70	178.97	14.49	Clear	No	--

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 01-24-2024 08:24 Multi Meter ID: 706720
 ISCO End Date and Time: 01-25-2024 07:24

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	6

Latitude: 34.8383271218206
 Longitude: -78.8286765098171



General Comments:

Sample Comments:



ISCO



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: RIVER WATER INTAKE2 Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|DEBORAH AYERS| Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 01-24-2024 Time: 09:34

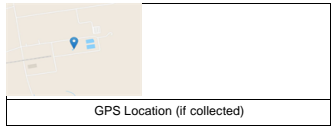
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
RIVER-WATER-INTAKE2-24-012524	01-25-2024	07:06	7.87	9.50	54.00	34.40	184.05	13.92	Clear	No	--

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 01-24-2024 08:06 Multi Meter ID: 706720
 ISCO End Date and Time: 01-25-2024 07:06

WEATHER CONDITIONS	
Temperature (F):	56.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	8

Latitude: 34.8435300090369
 Longitude: -78.8354740227633



General Comments:

Sample Comments:



ISCO

SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

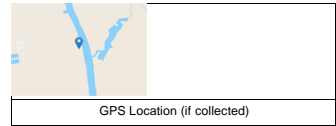
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-SEEP-A-EFF-24-012524	01-25-2024	07:12	7.38	9.10	99.50	3.46	387.12	9.10	Clear	No	

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	57.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

Latitude:
 Longitude:



General Comments:

Sample Comments:



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: SEEP-B Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|DEBORAH AYERS|Jacob K Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 1/25/2024 Time: 9:36

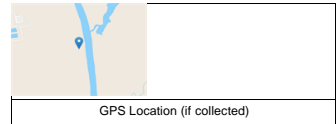
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAPTQ24-SEEP-B-EFF-24-012624	1/26/2024	8:47	8.22	8.59	94.80	40.80	159.80	12.43	Clear	No	

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 1/25/2024 9:47 Multi Meter ID: 706720
 ISCO End Date and Time: 1/26/2024 8:47

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	6

Latitude: 34.8423235103187
 Longitude: -78.8250849248054



General Comments:

Sample Comments:



ISCO



SURFACE WATER SAMPLING RECORD

Site Name: Chemours Fayetteville Location ID: SEEP-C Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|DEBORAH AYERS|Jacob K Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 01-24-2024 Time: 08:24

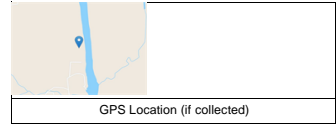
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-SEEP-C-EFF-24-012524	01-25-2024	07:24	8.06	6.53	104.00	9.01	268.34	13.73	Clear	No	--

Sampling Data

Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 01-24-2024 08:24 Multi Meter ID: 706720
 ISCO End Date and Time: 01-25-2024 07:24

WEATHER CONDITIONS	
Temperature (F):	60.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	9

Latitude: 34.8383929953947
 Longitude: -78.8244865065019

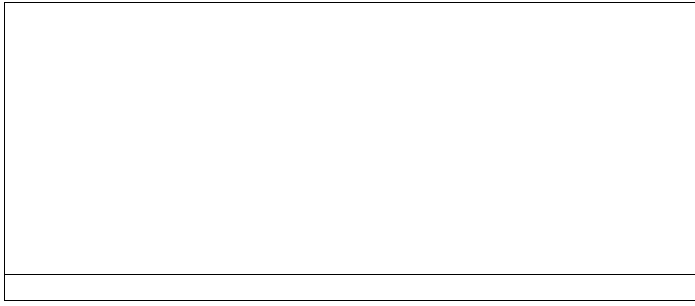


General Comments:

Sample Comments:



ISCO



SURFACE WATER SAMPLING RECORD

Site Name: Location ID: Project Manager:
 Samplers: Sampling Event: Event Type:
 Date: Time:

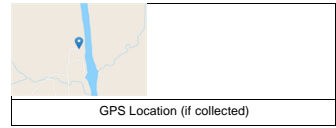
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-SEEP-D-EFF-24-012624	1/26/2024	8:30	8.21	8.47	114.80	10.80	135.68	10.91	Clear	No	

Sampling Data

Sampling Method: Multi Meter Used:
 ISCO Start Date and Time: Multi Meter ID:
 ISCO End Date and Time:

WEATHER CONDITIONS	
Temperature (F):	60.00
Sky:	Partly Cloudy
Precipitation:	None
Wind (mph)	9

Latitude:
 Longitude:

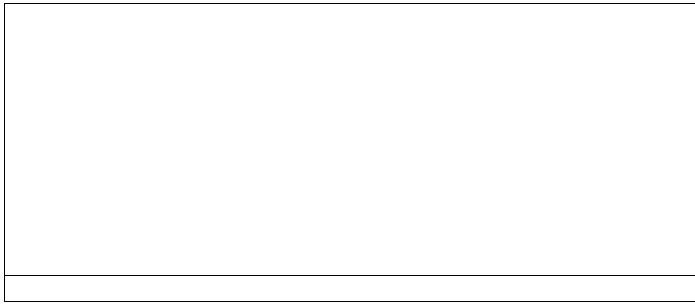


General Comments:

Sample Comments:



ISCO



SURFACE WATER SAMPLING RECORD

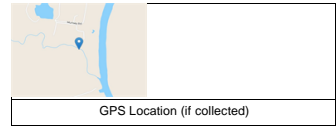
Site Name: Chemours Fayetteville Location ID: WC-6 Project Manager: Tracy Ovbey
 Samplers: BRANDON WEIDNER|DEBORAH AYERS Sampling Event: Quarterly CAP Event Type: Sampling
 Date: 01-24-2024 Time: 07:50

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q24-WC-6-24-012524	01-25-2024	07:00	5.54	9.59	30.40	4.52	196.99	10.31	Clear	No	--

Sampling Data
 Sampling Method: ISCO Composite Multi Meter Used: Insitu Aqua Troll
 ISCO Start Date and Time: 01-24-2024 08:00 Multi Meter ID: 706720
 ISCO End Date and Time: 01-25-2024 07:00

WEATHER CONDITIONS	
Temperature (F):	53.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	5

Latitude: 34.8540956256956
 Longitude: -78.8297805388092



General Comments:

Sample Comments:



ISCO



RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: BLADEN-1DR

Well Diameter: 2 Inches

Samplers: FELIPE SILVA|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 40

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-15-2024 Time: 09:05

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.491		
Initial Depth to Water (ft.):	19.4	Depth to Well Bottom (ft.):	47.47

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
09:40	20.16	340.00	3400.00	5.65	0.19	33.10	22.60	69.81	17.17	Clear	Yes	
09:45	19.97	340.00	1700.00	5.73	0.12	21.20	19.40	70.01	16.54	Clear	Yes	
09:50	19.94	340.00	1700.00	5.74	0.07	20.90	20.50	70.73	16.66	Clear	Yes	
09:55	19.90	340.00	1700.00	5.75	0.07	22.00	16.90	70.22	16.62	Clear	Yes	
10:00	19.91	340.00	1700.00	5.76	0.05	21.20	12.70	69.55	16.84	Clear	Yes	
10:05	19.94	340.00	1700.00	5.73	0.04	23.00	9.73	69.31	17.00	Clear	Yes	
10:10	19.95	340.00	1700.00	5.72	0.03	25.20	7.81	69.25	16.93	Clear	Yes	
10:15	19.95	340.00	1700.00	5.71	0.03	26.90	7.38	69.20	16.76	Clear	Yes	
10:20	19.95	340.00	1700.00	5.7	0.02	27.70	6.32	68.93	17.12	Clear	Yes	
10:25	19.95	340.00	1700.00	5.71	0.02	28.50	5.04	68.87	17.17	Clear	Yes	

Screen Interval:

Sampling Data

Method: Low Flow

Date: 01-15-2024 Time: 10:25

Purge Start Time: 09:30

Total Volume Purged (mL): 18700

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	5.71
Spec. Cond.(µS/cm)	68.87
Turbidity (NTU)	5.04
Temp.(°C)	17.17
DO (mg/L)	0.02
ORP (mV)	28.50

Sample ID: CAP1Q24-BLADEN-1DR-011524

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	43.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-01

Well Diameter: 2 Inches

Samplers: FELIPE SILVA

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 24

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-17-2024 Time: 12:58

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.067		
Initial Depth to Water (ft.):	15.83	Depth to Well Bottom (ft.):	28.75

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
13:10	16.72	240.00	1200.00	4.13	1.69	259.30	58.90	116.96	14.21	Cloudy	No	
13:15	16.72	240.00	1200.00	4.13	1.65	259.90	45.40	117.28	14.84	Cloudy	No	
13:20	16.72	240.00	1200.00	4.13	1.60	264.90	40.70	117.27	15.08	Clear	No	
13:25	16.72	240.00	1200.00	4.14	1.60	269.50	37.00	117.13	14.71	Clear	No	
13:30	16.72	240.00	1200.00	4.17	1.68	271.10	22.20	116.62	14.55	Clear	No	
13:35	16.72	240.00	1200.00	4.19	1.68	271.70	16.70	116.25	14.72	Clear	No	
13:40	16.72	240.00	1200.00	4.21	1.69	273.20	11.60	116.19	14.92	Clear	No	

Screen Interval: 11.0-26.0

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 01-17-2024 Time: 13:40

Purge Start Time: 13:05
Total Volume Purged (mL): 8400

Field Parameters

STABILIZED PARAMETERS	
pH	4.21
Spec. Cond.(µS/cm)	116.19
Turbidity (NTU)	11.60
Temp.(°C)	14.92
DO (mg/L)	1.69
ORP (mV)	273.20

Sample ID: CAP1Q24-LTW-01-011724
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	1/25/1900 0:00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-02

Well Diameter: 2 Inches

Samplers: FELIPE SILVA

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 35

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-17-2024 Time: 10:54

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.875		
Initial Depth to Water (ft.):	10.21	Depth to Well Bottom (ft.):	40.68

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
12:10	10.32	240.00	6480.00	4.91	0.31	195.00	7.61	79.82	14.85	Clear	No	
12:15	10.31	240.00	1200.00	4.95	0.17	166.00	7.42	78.55	15.59	Clear	No	
12:19	10.31	240.00	960.00	4.92	0.15	160.00	4.39	82.36	15.68	Clear	No	
12:25	10.32	240.00	1440.00	4.94	0.13	153.90	6.17	82.94	15.80	Clear	No	
12:30	10.32	240.00	1200.00	4.94	0.11	144.50	5.85	83.33	15.75	Clear	No	
12:35	10.32	240.00	1200.00	4.96	0.11	139.30	2.94	83.60	15.60	Clear	No	
12:39	10.32	240.00	960.00	4.95	0.10	134.90	3.39	83.42	16.03	Clear	No	

Screen Interval: 28.0-38.0

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 01-17-2024 Time: 12:40

Purge Start Time: 12:05
Total Volume Purged (mL): 13440

Field Parameters

STABILIZED PARAMETERS	
pH	4.95
Spec. Cond.(µS/cm)	83.42
Turbidity (NTU)	3.39
Temp.(°C)	16.03
DO (mg/L)	0.10
ORP (mV)	134.90

Sample ID: CAP1Q24-LTW-02-011724
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	28.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: LTW-03

Well Diameter: 2 Inches

Samplers: ERIN JANIGA Kate maringer

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 25

Pump Loc: within screen

Method:

Date: 01-31-2024 Time: 10:16

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.042		
Initial Depth to Water (ft.):	13.77	Depth to Well Bottom (ft.):	32.78

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:35	14.17	280.00	1400.00	4.16	1.20	303.70	37.10	112.00	15.50	Clear	No	
10:40	14.29	280.00	1400.00	4.25	0.94	296.00	19.80	109.00	15.83	Clear	No	
10:45	14.25	160.00	800.00	4.31	0.70	279.10	12.20	107.00	15.71	Clear	No	
10:50	14.25	160.00	800.00	4.29	0.63	280.30	17.90	106.00	15.41	Clear	No	
10:55	14.25	160.00	800.00	4.31	0.57	281.20	16.40	106.00	15.29	Clear	Yes	
11:00	14.28	160.00	800.00	4.3	0.56	284.60	15.10	106.00	15.30	Clear	No	
11:05	14.25	160.00	960.00	4.31	0.54	279.20	16.10	106.00	15.24	Clear	No	

Screen Interval: 15.0-30.0

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 01-31-2024 Time: 11:05

Purge Start Time: 10:30
Total Volume Purged (mL): 6960

Field Parameters

STABILIZED PARAMETERS	
pH	4.31
Spec. Cond.(µS/cm)	106.00
Turbidity (NTU)	16.10
Temp.(°C)	15.24
DO (mg/L)	0.54
ORP (mV)	279.20

Sample ID: CAP1Q24-LTW-03-013124
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	46.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date: Time:

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.749		
Initial Depth to Water (ft.):	11.31	Depth to Well Bottom (ft.):	28.49

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:25	13.13	275.00	1375.00	4	0.38	260.40	176.00	89.16	15.69	Cloudy	No	
11:30	14.11	275.00	1375.00	4.03	0.27	275.40	196.00	87.82	15.29	Cloudy	No	
11:35	15.00	210.00	1050.00	4.05	0.32	282.40	124.00	87.05	15.45	Cloudy	No	
11:40	15.11	210.00	1050.00	4.08	0.29	285.60	116.00	86.33	15.47	Cloudy	No	
11:44	15.50	210.00	840.00	4.07	0.27	296.80	109.00	85.92	15.39	Cloudy	No	
11:49	15.65	210.00	1050.00	4.23	0.24	290.80	83.00	79.98	15.52	Cloudy	No	
11:54	15.82	210.00	1050.00	4.28	0.21	284.20	67.80	77.98	15.59	Cloudy	No	
12:00	15.89	200.00	1200.00	4.28	0.22	299.90	61.40	77.69	15.33	Cloudy	No	
12:04	15.95	200.00	800.00	4.41	0.18	282.40	60.80	74.34	15.38	Particulates	No	
12:09	16.00	200.00	1000.00	4.5	0.16	272.30	40.70	73.04	15.17	Cloudy	No	
12:14	16.04	200.00	1000.00	4.56	0.14	264.40	34.00	71.70	15.50	Clear	No	
12:19	16.08	200.00	1000.00	4.63	0.12	256.90	31.40	70.99	15.49	Clear	No	
12:23	16.13	200.00	800.00	4.67	0.12	247.30	31.70	70.91	15.77	Clear	No	
12:30	16.18	200.00	1400.00	4.73	0.12	239.00	28.50	70.61	15.74	Clear	No	
12:35	16.91	200.00	1000.00	4.72	0.12	236.50	26.00	70.88	16.06	Clear	No	
12:40	16.26	200.00	1000.00	4.72	0.12	235.20	27.50	71.17	15.68	Clear	No	
12:45	16.26	200.00	1000.00	4.71	0.12	236.00	24.10	71.36	15.78	Clearly	No	
12:48	16.29	200.00	600.00	4.74	0.12	231.50	21.90	71.08	15.83	Clearly	No	
12:55	16.30	200.00	1400.00	4.81	0.11	224.10	20.10	70.34	16.07	Clear	No	
13:00	16.32	200.00	1000.00	4.8	0.11	223.80	17.50	70.27	15.88	Clear	No	
13:05	16.34	200.00	1000.00	4.78	0.11	223.80	15.20	70.70	15.88	Clear	No	

Screen Interval:

Sampling Data

Method:

Date: Time:

Purge Start Time:

Field Filtered:

Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	4.78
Spec. Cond.(µS/cm)	70.70
Turbidity (NTU)	15.20
Temp.(°C)	15.88
DO (mg/L)	0.11
ORP (mV)	223.80

Sample ID:

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	43.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date: Time:

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.994		
Initial Depth to Water (ft.):	9.81	Depth to Well Bottom (ft.):	47.27

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
24 hr												
11:30	10.00	360.00	3240.00	4.43	0.10	225.00	16.80	130.97	17.64	Clear	Yes	
11:35	10.00	360.00	1800.00	4.43	0.04	219.80	18.40	134.77	17.54	Clear	Yes	
11:40	10.00	360.00	1800.00	4.43	0.03	217.20	19.70	136.81	17.67	Clear	Yes	
11:45	9.99	360.00	1800.00	4.43	0.01	215.50	20.00	140.86	17.69	Clear	Yes	
11:50	9.99	360.00	1800.00	4.44	0.00	212.30	20.30	141.25	17.59	Clear	Yes	
11:55	10.98	360.00	1800.00	4.44	0.00	211.40	22.10	140.91	17.71	Clear	Yes	
12:00	10.94	280.00	1400.00	4.44	0.00	208.20	19.80	140.19	17.76	Clear	Yes	
12:05	9.94	280.00	1400.00	4.43	0.00	204.50	17.40	137.74	17.78	Clear	Yes	

Screen Interval:

Sampling Data

Method:

Date: Time:

Purge Start Time:

Total Volume Purged (mL):

Field Filtered:

Field Parameters

STABILIZED PARAMETERS	
pH	4.43
Spec. Cond.(µS/cm)	137.74
Turbidity (NTU)	17.40
Temp.(°C)	17.78
DO (mg/L)	0.00
ORP (mV)	204.50

Sample ID:

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	50.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

 Site Name:

 Well ID:

 Well Diameter: Inches

 Samplers:

 Event:

 Project Manager:
Purging Data

 Pump Depth:

 Pump Loc:

 Method:

 Date:

 Time:
WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

 Water Volume =

 Initial Depth to Water (ft.): Depth to Well Bottom (ft.):

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:30	7.71	250.00	1250.00	4.65	2.07	249.50	15.40	50.46	14.91	Clear	No	
14:35	7.70	250.00	1250.00	4.53	1.77	259.50	9.96	49.77	15.19	Clear	No	
14:40	7.71	250.00	1250.00	4.51	1.31	255.60	7.51	49.54	14.87	Clearly	Yes	
14:45	7.72	250.00	1250.00	4.5	0.88	227.90	6.08	49.98	15.17	Clear	Yes	
14:50	7.73	250.00	1250.00	4.52	0.49	145.90	3.57	48.43	15.16	Clear	Yes	
14:55	7.30	250.00	1250.00	4.53	0.36	107.30	2.51	48.02	15.35	Clear	Yes	
15:00	7.73	250.00	1250.00	4.54	0.29	85.70	1.82	47.76	15.31	Clear	Yes	
15:05	7.73	250.00	1250.00	4.54	0.24	72.50	1.72	47.69	15.47	Clear	Yes	
15:10	7.73	250.00	1250.00	4.54	0.21	60.50	1.20	47.27	14.79	Clear	Yes	
15:15	7.73	250.00	1250.00	4.54	0.20	52.20	47.47	15.28	15.30	Clear	Yes	Paused purge for next day.
10:31	7.83	195.00	-55380.00	4.47	1.54	56.20	3.52	51.38	14.22	Clear	No	
10:36	7.84	195.00	975.00	4.52	1.52	164.70	1.71	49.61	14.47	Clear	No	
10:41	7.84	195.00	975.00	4.51	1.43	228.10	1.54	49.58	14.67	Clear	No	
10:46	7.84	195.00	975.00	4.51	1.16	253.70	1.51	49.70	14.70	Clear	No	
10:52	7.84	195.00	1170.00	4.5	0.80	215.40	2.17	49.58	14.75	Clear	No	
10:56	7.84	195.00	780.00	4.48	0.55	207.70	1.01	49.63	14.74	Clear	No	
11:02	7.84	195.00	1170.00	4.51	0.27	182.90	0.69	49.20	14.79	Clear	No	
11:07	7.84	195.00	975.00	4.52	0.22	175.20	0.72	48.77	15.32	Clear	No	
11:11	7.84	195.00	780.00	4.53	0.18	167.30	0.65	48.35	15.29	Clear	No	
11:16	7.84	195.00	975.00	4.54	0.12	156.70	0.63	48.35	15.36	Clear	No	
11:21	7.84	195.00	975.00	4.55	0.09	141.70	0.56	48.17	15.29	Clear	No	
11:26	7.84	195.00	975.00	4.55	0.13	134.20	0.77	48.16	15.51	Clear	No	
11:31	7.84	195.00	975.00	4.56	0.07	127.40	0.72	47.90	15.36	Clear	No	
11:36	7.84	195.00	975.00	4.56	0.04	120.10	0.44	47.95	15.41	Clear	No	
11:41	7.84	195.00	975.00	4.56	0.07	118.80	0.50	47.88	15.59	Clear	No	
11:46	7.84	195.00	975.00	4.57	0.05	47.71	0.55	47.71	15.37	Clear	No	
11:51	7.84	195.00	975.00	4.56	0.00	110.70	0.57	47.57	15.29	Clear	No	
11:56	7.84	195.00	975.00	4.56	0.04	108.70	0.72	47.74	15.55	Clear	No	
12:01	7.84	195.00	975.00	4.57	0.04	108.30	0.60	47.64	15.50	Clear	No	
12:06	7.84	195.00	975.00	4.56	0.04	106.60	0.63	47.66	15.53	Clear	No	

 Screen Interval:
Sampling Data

 Method:

 Date: Time:

 Purge Start Time:

 Field Filtered:

 Total Volume Purged (mL):
Field Parameters

STABILIZED PARAMETERS	
pH	4.56
Spec. Cond.(µS/cm)	47.66
Turbidity (NTU)	0.63
Temp.(°C)	15.53
DO (mg/L)	0.04
ORP (mV)	106.60

 Sample ID:
 DuplicateID:
 QA/QC:

WEATHER CONDITIONS	
Temperature (F):	37.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12



RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: OW-33

Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER/JERIN JANIGA

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 28

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-30-2024

Time: 11:11

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.81		
Initial Depth to Water (ft.):	8.22	Depth to Well Bottom (ft.):	32.03

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:34	8.24	280.00	1400.00	5.49	0.22	59.10	16.80	69.07	16.94	Clear	Yes	
11:39	8.24	280.00	1400.00	4.5	0.21	97.60	15.90	66.00	17.01	Clear	Yes	
11:44	8.24	280.00	1400.00	4.44	0.19	167.50	15.60	65.00	17.05	Clear	Yes	
11:49	8.24	280.00	1400.00	4.44	0.17	185.00	10.50	64.77	17.09	Clear	Yes	
11:54	8.24	280.00	1400.00	4.42	0.16	193.40	10.10	64.66	17.22	Clear	Yes	
11:59	8.24	280.00	1400.00	4.42	0.15	198.80	7.43	65.56	16.98	Clear	Yes	
12:04	8.24	280.00	1400.00	4.41	0.14	200.20	5.75	64.51	17.36	Clear	Yes	
12:09	8.24	280.00	1400.00	4.4	0.14	207.70	4.58	64.40	17.24	Clear	Yes	
12:14	8.24	280.00	1400.00	4.38	0.14	210.60	4.09	64.76	17.05	Clear	Yes	

Screen Interval:

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 01-30-2024 Time: 12:14

Purge Start Time: 11:29
Total Volume Purged (mL): 12600

Field Parameters

STABILIZED PARAMETERS	
pH	4.38
Spec. Cond. (µS/cm)	64.76
Turbidity (NTU)	4.09
Temp. (°C)	17.05
DO (mg/L)	0.14
ORP (mV)	210.60

Sample ID: CAP1Q24-OW-33-013024
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	49.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date: Time:

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.48		
Initial Depth to Water (ft.):	16.13	Depth to Well Bottom (ft.):	31.63

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:25	16.21	175.00	3150.00	3.73	0.31	322.50	228.00	155.64	15.26	Cloudy	No	
14:30	16.21	175.00	875.00	3.71	0.22	337.30	228.00	156.06	15.31	Cloudy	No	
14:35	16.21	175.00	875.00	3.7	0.19	369.80	170.00	156.26	15.16	Cloudy	No	
14:40	16.21	175.00	875.00	3.7	0.19	362.60	124.00	108.19	15.30	Cloudy	No	
14:45	16.21	175.00	875.00	3.69	0.16	369.10	94.80	106.59	15.42	Cloudy	No	
14:50	16.21	175.00	875.00	3.69	0.16	373.90	93.00	111.25	15.22	Cloudy	No	
14:55	16.21	175.00	875.00	3.68	0.15	383.30	80.30	92.48	15.43	Cloudy	No	
15:00	16.21	175.00	875.00	3.68	0.12	378.50	62.80	28.13	15.38	Cloudy	No	
15:05	16.21	175.00	875.00	3.67	0.14	383.40	52.30	20.13	15.50	Cloudy	No	
15:10	16.21	175.00	875.00	3.67	0.12	385.60	47.10	18.92	15.50	Cloudy	No	
15:15	16.21	175.00	875.00	3.67	0.11	388.00	39.80	17.55	15.61	Clear	No	
15:20	16.21	175.00	875.00	3.66	0.11	388.20	31.30	13.22	15.66	Clear	No	
15:25	16.21	175.00	875.00	3.66	0.12	391.20	32.40	141.91	15.87	Clear	No	unable to stabilize; will continue 1/22
11:14	17.02	250.00	-62750.00	3.84	0.17	321.90	3.30	194.86	15.06	Clear	No	resume purge from 1/18
11:19	17.02	250.00	1250.00	3.82	0.17	333.80	20.60	191.76	15.10	Clear	No	
11:24	17.02	250.00	1250.00	3.81	0.17	344.80	26.60	183.81	15.37	Clear	No	
11:29	17.02	250.00	1250.00	3.8	0.13	349.40	22.10	169.47	15.31	Clear	No	
11:34	17.02	250.00	1250.00	3.8	0.07	350.20	17.80	161.01	15.54	Clear	No	
11:39	17.02	250.00	1250.00	3.79	0.05	354.30	11.80	157.16	15.89	Clear	No	
11:44	17.02	250.00	1250.00	3.79	0.02	368.70	12.60	161.26	15.93	Clear	No	
11:49	17.02	250.00	1250.00	3.79	0.01	372.30	9.94	166.77	15.83	Clear	No	
11:54	17.02	250.00	1250.00	3.79	0.00	379.50	3.44	173.00	16.02	Clear	No	
11:59	17.02	250.00	1250.00	3.79	0.00	380.90	7.33	174.93	15.84	Clear	No	
12:04	17.02	250.00	1250.00	3.78	0.00	386.90	5.84	174.25	15.95	Clear	No	

Screen Interval:

Sampling Data

Method:

Date: Time:

Purge Start Time:

Field Filtered:

Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	3.78
Spec. Cond.(µS/cm)	174.25
Turbidity (NTU)	5.84
Temp.(°C)	15.95
DO (mg/L)	0.00
ORP (mV)	386.90

Sample ID:

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	53.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-1S

Well Diameter: 2 Inches

Samplers: HERBERT WATTS|KEN STUART

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 21

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-16-2024

Time: 14:29

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.926		
Initial Depth to Water (ft.):	16.22	Depth to Well Bottom (ft.):	22.01

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
15:22	16.29	175.00	0.00	3.7	2.76	250.60	12.20	221.16	14.38	Clear	None	
15:27	16.30	175.00	875.00	3.68	2.71	273.00	9.05	220.95	14.36	Clear	None	
15:32	16.30	175.00	875.00	3.69	2.78	290.40	7.74	216.84	14.60	Clear	None	
15:37	16.31	175.00	875.00	3.76	2.68	321.70	5.95	216.38	14.29	Clear	None	
15:42	16.31	175.00	875.00	3.77	2.66	311.70	4.50	214.62	14.26	Clear	None	
15:47	16.31	175.00	875.00	3.8	2.71	311.00	3.35	213.57	14.28	Clear	None	

Screen Interval:

Sampling Data

Method: Low Flow

Date: 01-16-2024 Time: 15:47

Purge Start Time: 15:16

Field Filtered: No

Total Volume Purged (mL): 4375

Field Parameters

STABILIZED PARAMETERS	
pH	3.80
Spec. Cond.(µS/cm)	213.57
Turbidity (NTU)	3.35
Temp.(°C)	14.28
DO (mg/L)	2.71
ORP (mV)	311.00

Sample ID: CAP1Q24-PIW-1S-011624

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	47.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	0

RECORD OF WELL SAMPLING

Site Name:
 Samplers:

Well ID:
 Event:

Well Diameter: Inches
 Project Manager:

Purging Data

Pump Depth:
 Pump Loc:

Method: Date: Time:

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.632		
Initial Depth to Water (ft.):	16.69	Depth to Well Bottom (ft.):	26.89

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
12:41	16.77	175.00	8575.00	5.77	0.20	-45.80	13.30	106.58	16.25	Clear	No	
12:46	16.78	175.00	875.00	5.72	0.15	-17.50	8.35	99.33	16.16	Clear	No	
12:51	16.78	175.00	875.00	5.72	0.13	3.80	6.87	99.11	16.24	Clear	No	
12:56	16.78	175.00	875.00	5.74	0.10	12.70	5.98	99.90	16.40	Clear	No	
13:01	16.78	175.00	875.00	5.74	0.10	16.30	4.75	101.71	16.47	Clear	No	
13:06	16.78	175.00	875.00	5.75	0.08	17.40	3.33	100.92	16.41	Clear	No	
13:11	16.78	175.00	875.00	5.75	0.07	18.30	3.31	100.83	16.56	Clear	No	
13:16	16.78	175.00	875.00	5.76	0.07	18.50	3.32	102.12	16.86	Clear	No	
13:21	16.78	175.00	875.00	5.78	0.07	18.40	2.30	102.68	16.26	Clear	No	

Screen Interval:

Sampling Data

Method:
 Field Filtered:

Date: Time:

Purge Start Time:
 Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	5.78
Spec. Cond. (µS/cm)	102.68
Turbidity (NTU)	2.30
Temp. (°C)	16.26
DO (mg/L)	0.07
ORP (mV)	18.40

Sample ID:
 DuplicateID:
 QA/QC:

WEATHER CONDITIONS	
Temperature (F):	46.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date:

Time:

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	4.517		
Initial Depth to Water (ft.):	12.56	Depth to Well Bottom (ft.):	40.79

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:30	12.59	300.00	2400.00	6.22	0.02	-63.80	10.10	58.48	22.05	Clear	Yes	
14:35	12.58	300.00	1500.00	6.26	0.00	-78.40	7.63	58.30	22.13	Clear	Yes	
14:40	12.59	300.00	1500.00	6.29	0.00	-85.90	7.96	58.15	22.03	Clear	Yes	
14:45	12.59	300.00	1500.00	6.31	0.00	-92.10	9.11	58.32	22.10	Clear	Yes	

Screen Interval:

Sampling Data

Method:
Field Filtered:

Date: Time:

Purge Start Time:
Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	6.31
Spec. Cond.(µS/cm)	58.32
Turbidity (NTU)	9.11
Temp.(°C)	22.10
DO (mg/L)	0.00
ORP (mV)	-92.10

Sample ID:
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	53
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PIW-7D

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 35.5

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-15-2024

Time: 09:45

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot

Water Volume = 4.546

Initial Depth to Water (ft.): 8.63 Depth to Well Bottom (ft.): 37.04

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:08	8.61	240.00	1920.00	4.44	0.13	167.30	38.90	119.81	15.76	Clear	No	
10:13	8.61	240.00	1200.00	4.47	0.11	141.50	17.10	118.70	15.93	Clear	No	
10:18	8.61	240.00	1200.00	4.47	0.08	113.70	7.66	118.54	15.90	Clear	No	
10:23	8.61	240.00	1200.00	4.48	0.05	99.20	6.15	118.02	15.92	Clear	No	
10:28	8.61	240.00	1200.00	4.47	0.06	84.50	6.99	122.30	16.38	Clear	No	
10:33	8.61	240.00	1200.00	4.46	0.04	76.10	3.16	115.63	16.58	Clear	No	
10:38	8.61	4.46	22.30	4.46	0.04	67.00	2.13	116.70	16.60	Clear	No	
10:43	8.61	240.00	1200.00	4.45	0.02	59.10	2.05	115.66	16.64	Clear	No	
10:48	8.61	240.00	1200.00	4.45	0.01	52.30	2.29	116.41	16.77	Clear	No	
10:53	8.61	240.00	1200.00	4.44	0.01	47.10	8.95	115.84	16.59	Clear	No	
10:58	8.61	240.00	1200.00	4.44	0.03	49.90	3.14	116.36	16.75	Clear	No	
11:04	8.61	240.00	1440.00	4.44	0.03	42.50	2.15	115.93	16.76	Clear	No	
11:09	8.61	240.00	1200.00	4.43	0.03	37.90	2.17	117.02	16.91	Clear	No	
11:14	8.61	240.00	1200.00	4.42	0.03	35.50	3.27	115.34	17.05	Clear	No	
11:19	8.61	240.00	1200.00	4.42	0.03	32.60	2.25	116.71	17.01	Clear	No	
11:24	8.61	240.00	1200.00	4.42	0.02	28.10	1.96	117.60	17.23	Clear	No	
11:29	8.61	240.00	1200.00	4.41	0.02	24.70	1.68	115.58	17.12	Clear	No	
11:35	8.61	240.00	1440.00	4.41	0.02	21.60	1.69	115.97	17.22	Clear	None	
11:40	8.61	240.00	1200.00	4.4	0.01	19.40	1.88	116.89	17.18	Clear	None	
11:45	8.61	240.00	1200.00	4.4	0.01	16.20	1.29	115.12	17.26	Clear	None	
11:51	8.61	240.00	1440.00	4.4	0.00	14.70	1.29	113.71	17.34	Clear	None	
11:55	8.61	240.00	960.00	4.4	0.02	12.60	1.48	114.84	17.43	Clear	None	
12:01	8.61	240.00	1440.00	4.4	0.03	11.50	1.49	112.79	17.50	Clear	None	
12:05	8.61	240.00	960.00	4.4	0.10	9.70	1.37	115.97	17.39	Clear	None	
12:10	8.61	240.00	1200.00	4.39	0.11	9.10	1.38	116.37	17.49	Clear	None	
12:15	8.61	240.00	1200.00	4.39	0.03	8.10	4.04	116.40	17.42	Clear	No	
12:21	6.81	240.00	1440.00	4.38	0.03	10.00	1.95	115.11	17.60	Clear	No	
12:25	8.61	240.00	960.00	4.39	0.01	7.60	4.91	113.49	17.59	Clear	No	
12:31	8.61	240.00	1440.00	4.39	0.00	5.70	1.98	110.15	17.51	Clear	No	
12:36	8.61	240.00	1200.00	4.39	0.00	4.30	1.93	113.86	17.67	Clear	No	
12:40	8.61	240.00	960.00	4.39	0.00	2.50	1.90	114.96	17.46	Clear	No	
12:46	8.61	240.00	1440.00	4.39	0.00	0.10	0.92	114.67	17.44	Clear	No	
12:51	8.61	240.00	1200.00	4.39	0.01	-1.30	1.55	115.55	17.53	Clear	No	
12:56	8.61	240.00	1200.00	4.39	0.01	-1.70	1.36	114.90	17.32	Clear	No	
13:01	6.81	240.00	1200.00	4.39	0.00	-1.50	1.00	114.24	17.28	Clear	No	
13:06	6.81	240.00	1200.00	4.4	0.00	-1.50	0.91	114.06	17.27	Clear	No	
13:11	8.61	240.00	1200.00	4.39	0.00	-0.80	0.99	113.51	17.30	Clear	No	

Screen Interval: 24.5 to 29.5

Sampling Data

Method: Low Flow

Date: 01-15-2024 Time: 13:11

Purge Start Time: 10:00

Total Volume Purged (mL): 44662.3

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.39

Sample ID: CAP1Q24-PIW-7D-011524

DuplicateID: CAP1Q24-PIW-7D-011524-D

WEATHER CONDITIONS	
Temperature (F):	48.00

Spec. Cond.(μS/cm)	113.51
Turbidity (NTU)	0.99
Temp.(°C)	17.30
DO (mg/L)	0.00
ORP (mV)	-0.80

QA/QC:

Dup|MS|MSD

Sky:	Sunny
Precipitation:	None
Wind (mph)	4

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date:

Time:

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.934		
Initial Depth to Water (ft.):	8.13	Depth to Well Bottom (ft.):	20.22

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:08	8.58	245.00	1960.00	4.83	0.12	210.49	72.90	138.59	17.01	Cloudy	No	
14:13	8.59	245.00	1225.00	4.86	0.07	207.15	64.50	136.85	17.05	Cloudy	No	
14:18	8.59	245.00	1225.00	4.94	0.04	201.39	40.80	133.67	17.11	Clear	No	
14:23	8.60	245.00	1225.00	5.16	0.02	182.75	30.40	129.43	17.07	Clear	No	
14:28	8.60	245.00	1225.00	5.21	0.02	171.96	25.00	130.18	17.10	Clear	No	
14:33	8.60	245.00	1225.00	5.37	0.01	156.02	15.40	129.98	17.20	Clear	No	
14:38	8.60	245.00	1225.00	5.36	0.01	153.23	16.40	131.74	17.20	Clear	No	
14:43	8.60	245.00	1225.00	5.53	0.00	134.48	9.39	134.50	17.08	Clear	No	
14:48	8.60	245.00	1225.00	5.52	0.00	125.03	11.50	135.33	17.08	Clear	No	
14:55	8.60	245.00	1715.00	5.55	0.00	116.79	8.75	136.33	17.14	Clear	No	
15:00	6.80	245.00	1225.00	5.55	0.00	110.81	10.90	136.73	17.10	Clear	No	
15:05	8.60	245.00	1225.00	5.65	0.00	102.52	7.76	140.07	17.08	Clear	No	
15:10	8.60	245.00	1225.00	5.62	0.00	95.59	9.14	138.84	17.07	Clear	No	
15:15	8.60	240.00	1200.00	5.66	0.00	90.91	5.96	140.37	17.01	Clear	No	
15:20	8.60	245.00	1225.00	5.65	0.00	90.31	8.06	139.69	17.07	Clear	No	

Screen Interval:

Sampling Data

Method:

Date: Time:

Purge Start Time:

Field Filtered:

Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	5.65
Spec. Cond.(µS/cm)	139.69
Turbidity (NTU)	8.06
Temp.(°C)	17.07
DO (mg/L)	0.00
ORP (mV)	90.31

Sample ID:

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	61.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-04

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: within screen

Pump Loc: within screen

Method: Bailer Date: 1/15/2024 Time: 09:19

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.445		
Initial Depth to Water (ft.):	29.03	Depth to Well Bottom (ft.):	30.81

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
09:25	29.03		0.00	3.39	3.36	207.80	5.11	457.23	18.56	Clear	No	Bailed approximately 1400 mL
15:53	29.03		0.00	3.38	4.06	353.02	12.20	507.98	18.74	Clear	No	
11:54	28.94		0.00	3.26	10.39	390.00	28.93	413.52	13.06	Cloudy	No	Bailed 1030 mLs
16:10	29.27		0.00	3.32	0.75	384.40		392.98	13.44	Clear	No	Bailed 1050 mL
09:08	28.99		0.00	4.27	3.76	102.20	161.00	700.86	13.13	Cloudy	No	Bailed approximately 1400 mLs
15:55	29.01		0.00	3.86	8.11	362.10	40.60	539.05	13.70	Clear	No	

Screen Interval: 56-66

Sampling Data

Method: Low Flow
Field Filtered: Yes

Date: 01-17-2024 Time: 15:55

Purge Start Time: 09:49
Total Volume Purged (mL): 0

Field Parameters

STABILIZED PARAMETERS	
pH	3.86
Spec. Cond.(µS/cm)	539.05
Turbidity (NTU)	40.60
Temp.(°C)	13.70
DO (mg/L)	8.11
ORP (mV)	362.10

Sample ID: CAP1Q24-PW-04-011724-Z
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	0

RECORD OF WELL SAMPLING

Site Name:

Well ID:

Well Diameter: Inches

Samplers:

Event:

Project Manager:

Purging Data

Pump Depth:

Pump Loc:

Method:

Date:

Time:

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.925		
Initial Depth to Water (ft.):	20.86	Depth to Well Bottom (ft.):	32.89

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
24 hr												
14:15	22.15	320.00	1600.00	4.47	6.40	287.90	7.44	50.80	17.23	Clear	No	
14:20	22.25	320.00	1600.00	4.45	6.25	303.40	1.88	51.67	17.29	Clear	No	
14:25	22.26	320.00	1600.00	4.43	5.86	311.30	1.44	53.92	17.23	Clear	No	
14:30	22.12	320.00	1600.00	4.41	5.58	312.80	1.14	57.08	17.27	Clear	No	
14:35	22.01	320.00	1600.00	4.43	5.52	315.10	1.57	53.74	17.28	Clear	No	

Screen Interval:

Sampling Data

Method:
Field Filtered:

Date: Time:

Purge Start Time:
Total Volume Purged (mL):

Field Parameters

STABILIZED PARAMETERS	
pH	4.43
Spec. Cond.(µS/cm)	53.74
Turbidity (NTU)	1.57
Temp.(°C)	17.28
DO (mg/L)	5.52
ORP (mV)	315.10

Sample ID:
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	60.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PW-07

Well Diameter: 2 Inches

Samplers: HERBERT WATTS|SAIRA BOHAM

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth:

Pump Loc:

Method: Bailer Date: 01-29-2024 Time: 09:01

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	0.098		
Initial Depth to Water (ft.):	41.15	Depth to Well Bottom (ft.):	41.76

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
09:01	41.15		0.00	5.86	7.13	98.60	24.60	185.71	21.96	Clear	No	Approximately 251 mL bailed
16:00	41.15		0.00	5.2	6.65	137.40	9.68	36.69	22.80	Clear	No	Approximately 260mL bailed
09:24	41.20		0.00	7.77	2.25	95.30	23.90	748.49	21.02	Clear	No	Approximately 245 mL bailed
09:13	41.14		0.00	7.29	8.46	41.10	56.20	0.24	14.51	Clear	No	Approximately 251 mL bailed
10:30	41.35		0.00	9.06	12.28	-31.90	134.00	408.93	14.43	Cloudy	No	

Screen Interval: 90-100

Sampling Data

Method: Low Flow

Date: 02-07-2024 Time: 10:40

Purge Start Time: 09:01

Field Filtered: No

Total Volume Purged (mL): 0

Field Parameters

STABILIZED PARAMETERS	
pH	9.06
Spec. Cond.(µS/cm)	408.93
Turbidity (NTU)	134.00
Temp.(°C)	14.43
DO (mg/L)	12.28
ORP (mV)	-31.90

Sample ID: CAP1Q24-PW-07-020724

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	57.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

RECORD OF WELL SAMPLING

 Site Name: Chemours Fayetteville

 Well ID: PW-09

 Well Diameter: 2 Inches

 Samplers: FELIPE SILVA

 Event: Quarterly CAP

 Project Manager: Tracy Ovbey
Purging Data

 Pump Depth: 45

 Pump Loc: within screen

 Method: Double valve pump

 Date: 01-23-2024

 Time: 11:34
WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	5.187		
Initial Depth to Water (ft.):	25.24	Depth to Well Bottom (ft.):	57.66

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
11:40	31.77	660.00	3300.00	11.18	1.75	-18.10	12.80	309.76	17.07	Clear	No	
11:45	32.69	600.00	3000.00	10.3	1.18	-26.60	32.70	134.18	16.95	Clear	No	
11:50	32.81	480.00	2400.00	9.29	0.08	-34.90	74.50	116.98	16.29	Cloudy	No	
11:55	32.67	500.00	2500.00	8.7	0.06	-192.70	51.00	102.75	16.96	Cloudy	No	
12:00	32.54	500.00	2500.00	7.6	0.10	-205.50	43.00	96.59	16.95	Cloudy	No	
12:05	32.43	500.00	2500.00	7.32	0.20	-145.48	34.40	90.41	16.89	Clear	No	
12:10	32.33	500.00	2500.00	7.14	0.20	-122.80	35.10	86.72	16.97	Clear	No	
12:15	32.21	500.00	2500.00	7.08	0.26	-122.90	32.70	83.95	16.92	Clear	No	
12:20	32.15	500.00	2500.00	6.85	0.21	-100.90	30.90	82.33	16.93	Clear	No	
12:25	32.09	500.00	2500.00	6.96	0.18	-106.50	30.90	80.87	16.97	Clear	No	
12:30	32.05	500.00	2500.00	6.89	0.18	-100.40	31.50	79.03	16.98	Clear	No	
12:35	32.01	500.00	2500.00	6.88	0.19	-92.20	30.30	78.43	17.00	Clear	No	
12:40	32.00	500.00	2500.00	6.78	0.15	-92.20	30.80	77.13	16.99	Clear	No	
12:45	32.00	500.00	2500.00	6.7	0.20	-89.90	29.10	76.24	17.02	Clear	No	
12:50	32.00	500.00	2500.00	6.76	0.16	-88.70	31.40	75.78	17.00	Clear	No	
12:55	32.00	500.00	2500.00	6.76	0.12	-86.00	31.40	75.00	17.00	Clear	No	
13:00	32.00	500.00	2500.00	6.76	0.15	83.70	27.50	74.15	17.03	Clear	No	
13:05	32.00	500.00	2500.00	6.77	0.19	-81.70	28.50	73.81	17.03	Clear	No	
13:10	32.00	500.00	2500.00	6.77	0.18	-83.00	26.10	73.20	17.05	Clear	No	
13:15	32.00	500.00	2500.00	6.71	0.20	-77.70	26.60	72.81	17.04	Clear	No	
13:20	32.00	500.00	2500.00	6.67	0.15	-71.90	29.40	72.10	17.04	Clear	No	
13:25	32.00	500.00	2500.00	6.71	0.14	-76.30	24.50	71.34	17.05	Clear	No	
13:30	32.00	500.00	2500.00	6.41	0.17	-75.20	23.60	71.20	17.06	Clear	No	
13:35	32.00	500.00	2500.00	6.43	0.15	-74.50	23.20	71.02	17.09	Clear	No	
13:40	32.00	500.00	2500.00	6.68	0.21	-72.10	22.00	70.68	17.09	Clear	No	
13:45	32.00	500.00	2500.00	6.71	0.18	-71.90	22.80	70.43	17.09	Clear	No	
13:50	32.00	500.00	2500.00	6.61	0.14	-71.40	23.80	70.08	17.08	Clear	No	
13:55	32.00	500.00	2500.00	6.39	0.16	-71.00	23.30	69.93	17.09	Clear	No	
14:00	32.00	500.00	2500.00	6.57	0.12	-61.20	26.50	69.74	17.10	Clear	No	
14:05	32.00	500.00	2500.00	6.67	0.15	66.90	21.40	69.46	17.08	Clear	No	
14:10	32.00	500.00	2500.00	6.63	0.14	-67.80	19.70	69.25	17.10	Clear	No	
14:15	32.00	500.00	2500.00	6.55	0.14	-65.30	20.40	68.80	17.11	Clear	No	
14:20	32.00	500.00	2500.00	6.66	0.12	-67.80	19.40	68.84	17.09	Clear	No	
14:25	32.00	240.00	1200.00	6.41	0.00	-67.30	20.00	67.48	16.90	Clear	No	
14:30	32.00	240.00	1200.00	6.6	0.13	-61.10	18.60	67.42	16.89	Clear	No	
14:35	32.00	240.00	1200.00	6.61	0.13	-62.20	19.20	67.28	16.87	Clear	No	
14:40	32.00	240.00	1200.00	6.61	0.13	-63.50	19.40	67.32	16.87	Clear	No	

 Screen Interval: 11 - 21
Sampling Data

 Method: Low Flow

 Date: 09-23-2024 Time: 14:40

 Purge Start Time: 11:35

 Field Filtered: No

 Total Volume Purged (mL): 88500
Field Parameters

STABILIZED PARAMETERS	
pH	6.61

 Sample ID: CAP1Q24-PW-09-092324

 DuplicateID: CAP1Q24-PW-09-092324-D

WEATHER CONDITIONS	
Temperature (F):	49.00

Spec. Cond.(μS/cm)	67.32
Turbidity (NTU)	19.40
Temp.(°C)	16.87
DO (mg/L)	0.13
ORP (mV)	-63.50

QA/QC:

Dup|MS|MSD

Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: PZ-22

Well Diameter: 1 Inches

Samplers: FELIPE SILVA

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 44

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-16-2024 Time: 14:34

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.64		
Initial Depth to Water (ft.):	10.73	Depth to Well Bottom (ft.):	50.73

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:56	10.73	200.00	0.00	4.87	0.28	95.20	272.00	82.54	14.48	Cloudy	Yes egg	
15:00	11.73	200.00	800.00	4.72	0.22	85.10	72.30	82.48	15.10	Cloudy	Yes	
15:05	11.73	200.00	1000.00	4.67	0.18	82.10	39.10	82.32	15.00	Clear	Yes	
15:10	11.73	200.00	1000.00	4.64	0.15	80.50	20.60	82.58	15.20	Clear	Yes	
15:15	11.73	200.00	1000.00	4.6	0.14	78.00	11.30	82.36	15.27	Clear	Yes	
15:20	11.73	200.00	1000.00	4.57	0.15	76.30	9.44	82.41	15.30	Clear	Yes	

Screen Interval: 10.2-15.2

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 01-16-2024 Time: 15:20

Purge Start Time: 14:50
Total Volume Purged (mL): 4800

Field Parameters

STABILIZED PARAMETERS	
pH	4.57
Spec. Cond.(µS/cm)	82.40
Turbidity (NTU)	9.44
Temp.(°C)	15.30
DO (mg/L)	0.15
ORP (mV)	76.30

Sample ID: CAP1Q24-PZ-22-011624
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	43.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	11

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-10

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 47

Pump Loc: within screen

Method: Double valve pump

Date: 01-17-2024 Time: 10:18

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	3.592		
Initial Depth to Water (ft.):	29.63	Depth to Well Bottom (ft.):	52.08

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
10:48	29.63	150.00	150.00	7.03	0.04	-105.00	145.00	315.97	10.88	Cloudy	No	
10:53	29.64	150.00	750.00	5.69	0.22	1.60	114.00	152.47	11.95	Cloudy	No	
10:59	29.62	150.00	900.00	5.57	0.20	2.40	126.00	131.58	12.02	Cloudy	No	
11:04	29.62	150.00	750.00	5.53	0.20	-4.30	100.00	120.42	11.95	Cloudy	No	
11:09	29.62	150.00	750.00	5.53	0.19	-9.00	96.70	114.28	12.20	Cloudy	No	
11:14	29.63	150.00	750.00	5.54	0.17	-11.60	94.10	111.90	12.57	Clear	No	
11:19	29.63	150.00	750.00	5.56	0.16	-16.70	89.90	111.23	12.24	Cloudy	No	
11:24	29.63	150.00	750.00	5.55	0.15	-17.20	84.80	112.99	12.53	Cloudy	No	
11:29	29.63	150.00	750.00	5.56	0.14	-24.50	24.50	107.32	12.39	Cloudy	No	
11:34	29.63	150.00	750.00	5.6	0.15	-27.40	20.50	107.60	12.38	Cloudy	No	
11:39	29.63	150.00	750.00	5.6	0.17	-28.20	17.90	108.90	12.23	Cloudy	No	
11:44	29.63	150.00	750.00	5.61	0.16	-26.70	14.20	108.84	12.62	Clear	No	
11:49	29.63	150.00	750.00	5.59	0.12	-25.20	37.30	106.20	12.68	Clear	No	
11:54	29.63	150.00	750.00	5.61	0.09	-25.30	49.40	107.24	12.63	Clear	No	
11:59	29.63	150.00	750.00	5.63	0.07	-26.10	59.10	105.69	12.62	Clear	No	
12:04	29.63	150.00	750.00	5.61	0.06	-26.90	62.50	106.74	12.80	Clear		
12:09	29.63	150.00	750.00	5.63	0.05	-29.10	62.10	106.40	12.88	Clear	No	
12:14	29.63	150.00	750.00	5.63	0.04	-30.10	61.30	107.25	12.94	Clear	No	
12:19	29.63	150.00	750.00	5.65	0.03	-32.30	55.30	107.23	12.72	Clear	No	
12:24	29.63	150.00	750.00	5.65	0.03	-34.10	52.20	107.37	12.76	Clear	No	
12:29	29.63	150.00	750.00	5.66	0.03	-35.60	50.60	110.64	12.94	Clear	No	
12:34	29.63	150.00	750.00	5.82	0.02	-37.70	51.30	113.74	12.46	Clear	No	
12:39	29.63	150.00	750.00	5.67	0.02	-37.10	44.30	108.49	12.30	Clear	No	
12:44	29.63	150.00	750.00	5.66	0.01	-36.70	43.70	106.69	12.58	Clear	No	
12:49	29.63	150.00	750.00	5.66	0.01	-37.10	39.90	106.90	12.84	Clear	No	
12:54	29.63	150.00	750.00	5.66	0.01	-37.60	38.10	106.28	13.11	Clear	No	
12:59	29.63	150.00	750.00	5.65	0.01	-37.90	35.30	106.62	13.07	Clear	No	
13:04	29.63	150.00	750.00	5.64	0.01	-39.70	35.40	106.80	13.34	Clear	No	
13:09	29.63	150.00	750.00	5.64	0.00	-41.10	33.30	107.20	12.76	Clear	No	
13:14	29.63	150.00	750.00	5.65	0.01	-43.50	31.90	106.44	13.50	Clear	No	
13:19	29.63	150.00	750.00	5.64	0.00	-44.30	27.90	105.77	12.96	Clear	No	
13:24	29.63	150.00	750.00	5.65	0.00	-46.30	29.30	106.11	13.57	Clear	No	
13:29	29.63	150.00	750.00	5.65	0.00	-47.90	25.60	105.99	13.80	Clear	No	
13:34	29.63	150.00	750.00	5.64	0.00	-48.80	25.70	106.55	14.09	Clear	No	
13:39	29.63	150.00	750.00	5.64	0.00	-49.30	24.60	105.92	13.03	Clear	No	
13:44	29.63	150.00	750.00	5.65	0.00	-51.10	24.10	105.40	13.03	Clear	No	
13:49	29.63	150.00	750.00	5.65	0.00	-52.30	24.10	105.96	13.18	Clear	No	
13:54	29.63	150.00	750.00	5.65	0.00	-52.90	20.90	105.37	12.85	Clear	No	
13:59	29.63	150.00	750.00	5.65	0.00	-54.20	20.30	105.75	13.07	Clear	No	
14:04	29.63	150.00	750.00	5.65	0.00	-54.80	19.40	105.55	12.89	Clear	No	
14:09	29.63	150.00	750.00	5.65	0.00	-55.50	30.70	105.27	13.21	Clear	No	
14:14	29.63	150.00	750.00	5.64	0.03	-53.70	30.40	105.46	12.77	Clear	No	
14:19	29.63	150.00	750.00	5.65	0.02	-55.70	24.00	108.22	13.43	Clear	No	
14:24	29.63	150.00	750.00	5.68	0.00	-57.10	20.80	125.33	13.18	Clear	No	
14:29	29.63	150.00	750.00	5.7	0.00	-60.10	19.30	120.66	13.37	Clear	No	
14:34	29.63	150.00	750.00	5.69	0.00	-59.50	17.60	113.28	13.35	Clear	No	
14:39	29.63	150.00	750.00	5.71	0.00	-60.40	16.30	113.40	12.62	Clear	No	

Screen Interval: 45.0-60.0

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 01-17-2024 Time: 14:39

Purge Start Time: 10:40
Total Volume Purged (mL): 34800

Field Parameters

STABILIZED PARAMETERS	
pH	5.71
Spec. Cond. (µS/cm)	113.40
Turbidity (NTU)	16.30
Temp. (°C)	12.62
DO (mg/L)	0.00
ORP (mV)	-60.40

Sample ID: CAP1Q24-SMW-10-011724
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	27.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-11

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS/FELIPE SILVA

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 20

Pump Loc: within screen

Method: Peristaltic Pump

Date: 01-18-2024

Time: 14:33

WATER VOLUME CALCULATION

= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	1.584		
Initial Depth to Water (ft.):	15.89	Depth to Well Bottom (ft.):	25.79

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
15:00	15.96	260.00	1820.00	4.1	4.47	145.90	9.83	48.02	15.72	Clear	No	
15:05	15.97	260.00	1300.00	4.19	4.18	186.00	6.71	48.82	15.74	Clear	No	
15:10	15.97	260.00	1300.00	4.2	4.39	213.20	3.36	46.44	15.74	Clear	No	
15:15	15.97	260.00	1300.00	4.22	4.16	228.90	2.02	46.34	15.72	Clear	No	
15:20	15.97	260.00	1300.00	4.24	4.33	235.10	1.54	47.48	15.75	Clear	No	
15:25	15.97	260.00	1300.00	4.25	4.03	238.20	1.01	48.26	15.80	Clear	No	

Screen Interval: 12.0-22.0

Sampling Data

Method: Low Flow

Date: 01-18-2024 Time: 15:25

Purge Start Time: 14:53

Field Filtered: No

Total Volume Purged (mL): 8320

Field Parameters

STABILIZED PARAMETERS	
pH	4.25
Spec. Cond.(µS/cm)	48.26
Turbidity (NTU)	1.01
Temp.(°C)	15.80
DO (mg/L)	4.03
ORP (mV)	238.20

Sample ID: CAP1Q24-SMW-11-011824
 DuplicateID:
 QA/QC:

WEATHER CONDITIONS	
Temperature (F):	52.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville

Well ID: SMW-12

Well Diameter: 2 Inches

Samplers: DEBORAH AYERS

Event: Quarterly CAP

Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 97

Pump Loc: within screen

Method: Double valve pump

Date: 01-16-2024

Time: 13:19

WATER VOLUME CALCULATION			
= (Total Depth of Well - Depth To Water) x Casing Volume per Foot			
Water Volume =	2.224		
Initial Depth to Water (ft.):	88.12	Depth to Well Bottom (ft.):	102.02

Time	DTW	Pump Rate	Vol.	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	Comments
24 hr	ft	mL/min	mL	pH units	mg/L	mV	NTU	µS/cm	°C			
14:46	88.21	170.00	2040.00	3.81	0.52	264.55	7.86	131.17	11.47	Clear	No	
14:51	88.18	170.00	850.00	3.8	0.52	227.20	5.83	129.94	11.98	Clear	No	
14:56	88.19	170.00	850.00	3.78	0.52	214.00	3.22	134.63	12.15	Clear	No	
15:01	88.21	170.00	850.00	3.79	0.54	201.50	4.13	133.59	11.92	Clear	No	
15:06	88.19	170.00	850.00	3.8	0.55	198.70	2.79	133.25	11.91	Clear	No	

Screen Interval: 58 to 68

Sampling Data

Method: Low Flow
Field Filtered: No

Date: 01-16-2024 Time: 15:06

Purge Start Time: 14:22
Total Volume Purged (mL): 5440

Field Parameters

STABILIZED PARAMETERS	
pH	3.80
Spec. Cond. (µS/cm)	133.25
Turbidity (NTU)	2.79
Temp. (°C)	11.91
DO (mg/L)	0.55
ORP (mV)	198.70

Sample ID: CAP1Q24-SMW-12-011624

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	48.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	3

Appendix D

Laboratory Reports and DVM

Report

ADQM Data Review

Site: Chemours Fayetteville

Project: 2024 Tarheel Sampling 1Q24

Project Reviewer: Bridget Gavaghan

Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
CFR-TARHEEL-010324	320-108552-1	Surface Water	N	01/03/2024	13:05	FS
CFR-TARHEEL-010524	320-108552-2	Surface Water	N	01/05/2024	11:35	FS
CFR-TARHEEL-010924	320-108696-1	Surface Water	N	01/09/2024	23:01	FS
CFR-TARHEEL-010924-D	320-108696-2	Surface Water	N	01/09/2024	23:01	DUP
CFR-TARHEEL-011124	320-108696-3	Surface Water	N	01/11/2024	15:30	FS
CFR-TARHEEL-12-011024	320-109022-1	Surface Water	N	01/10/2024	12:01	FS
CFR-TARHEEL-011624	320-109022-2	Surface Water	N	01/16/2024	11:20	FS
CFR-TARHEEL-24-011824	320-109022-3	Surface Water	N	01/18/2024	23:01	FS
CFR-TARHEEL-24-012024	320-109227-1	Surface Water	N	01/20/2024	23:01	FS
CFR-TARHEEL-24-012424	320-109227-2	Surface Water	N	01/24/2024	23:01	FS
CFR-TARHEEL-013024	320-109476-1	Surface Water	N	01/30/2024	15:15	FS
CFR-TARHEEL-24-020124	320-109476-2	Surface Water	N	02/01/2024	23:01	FS
CFR-TARHEEL-24-020524	320-109634-1	Surface Water	N	02/05/2024	23:01	FS
CFR-TARHEEL-24-020824	320-109634-2	Surface Water	N	02/08/2024	23:01	FS
CFR-TARHEEL-24-012624	320-109815-1	Surface Water	N	01/26/2024	23:01	FS
CFR-TARHEEL-24-021224	320-109815-2	Surface Water	N	02/12/2024	23:01	FS
CFR-TARHEEL-24-021224-D	320-109815-3	Surface Water	N	02/12/2024	23:01	DUP
CFR-TARHEEL-24-021324	320-109815-4	Surface Water	N	02/13/2024	23:01	FS
CFR-TARHEEL-24-021924	320-110015-1	Surface Water	N	02/19/2024	23:01	FS
CFR-TARHEEL-24-022224	320-110015-2	Surface Water	N	02/22/2024	23:01	FS
CFR-TARHEEL-24-022624	320-110211-1	Surface Water	N	02/26/2024	23:01	FS
CFR-TARHEEL-24-022924	320-110211-2	Surface Water	N	02/29/2024	23:01	FS
CFR-TARHEEL-24-030424	320-110617-1	Surface Water	N	03/04/2024	23:01	FS
CFR-TARHEEL-24-030724	320-110617-2	Surface Water	N	03/07/2024	23:01	FS
CFR-TARHEEL-24-031224	320-110617-3	Surface Water	N	03/12/2024	23:15	FS
CFR-TARHEEL-24-031224-D	320-110617-4	Surface Water	N	03/12/2024	23:15	DUP
CFR-TARHEEL-24-031424	320-110617-5	Surface Water	N	03/14/2024	23:01	FS
CFR-TARHEEL-24-031824	320-110617-6	Surface Water	N	03/18/2024	23:01	FS
CFR-TARHEEL-24-032124	320-111108-1	Surface Water	N	03/21/2024	23:01	FS
CFR-TARHEEL-24-032524	320-111108-2	Surface Water	N	03/25/2024	23:01	FS
CFR-TARHEEL-24-032824	320-111108-3	Surface Water	N	03/28/2024	23:01	FS

* FS=Field Sample
 DUP=Field Duplicate
 FB=Field Blank
 EB=Equipment Blank
 TB=Trip Blank

Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Per- and Polyfluorinated Alkyl Substances (PFAS)	2024 Tarheel Sampling

ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?		X		X	
C	Was the chain of custody properly completed by the laboratory and/or field team?		X		X	
D	Were samples prepped/analyzed by the laboratory within method holding times?		X	X	X	
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X	X	
F	Were all data usable and not R qualified?	X				
ER#	Description					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs
- Temperature upon laboratory receipt meets the range of not frozen to 6°C with a target of 4°C (manual check)

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to “DVM” if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals “DVM”), use the **Validation Qualifier**.

If the data have been validated by a third party, the field “**Validated By**” will be set to the validator (e.g., ESI for Environmental Standards, Inc.)

DVM Narrative Report

Site: Fayetteville

Sampling Program: 2024 Tarheel Sampling

Validation Options: LABSTATS

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-020524	02/05/2024	320-109634-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-020824	02/08/2024	320-109634-2	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PEPA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	Hfpo Dimer Acid	0.0040	UG/L	PQL		0.0040	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PEPA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PMPA	0.0038	UG/L	PQL		0.0038	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	Hfpo Dimer Acid	0.0040	UG/L	PQL		0.0040	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PEPA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: 2024 Tarheel Sampling

Validation Options:

LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: 2024 Tarheel Sampling

Validation Options: LABSTATS

Validation Reason Code: High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-022624	02/26/2024	320-110211-1	PFO2HxA	0.0028	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-022624	02/26/2024	320-110211-1	PFMOAA	0.0046	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-022924	02/29/2024	320-110211-2	PFO2HxA	0.0029	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-022924	02/29/2024	320-110211-2	PFMOAA	0.0062	ug/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville

Sampling Program: 2024 Tarheel Sampling

Validation Options: LABSTATS

Validation Reason Code: High relative percent difference (RPD) observed between MS and MSD samples. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-24-031224	03/12/2024	320-110617-3	PFMOAA	0.0026	ug/L	PQL		0.0020	J	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PMPA	0.0067	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	Hfpo Dimer Acid	0.0042	UG/L	PQL		0.0040	J	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PPF Acid	0.0099	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PPF Acid	0.0062	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	PFMOAA	0.0021	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PPF Acid	0.0069	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PPF Acid	0.011	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PFMOAA	0.0023	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030424	03/04/2024	320-110617-1	Perfluoroheptanoic Acid	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	Perfluoroheptanoic Acid	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012624	01/26/2024	320-109815-1	PMPA	0.0021	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PPF Acid	0.011	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PPF Acid	0.017	UG/L	PQL		0.0050	J	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PFMOAA	0.0045	ug/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	Perfluoroheptanoic Acid	0.0028	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-12-011024	01/10/2024	320-109022-1	PFO2HxA	0.0040	ug/L	PQL		0.0020	J	537 Modified		3535

ADQM Data Review

Site: Chemours Fayetteville

Project: CAP GW 1Q24 Sampling

Project Reviewer: Bridget Gavaghan

Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
CAP1Q24-PIW-7D-011524	320-108762-1	Groundwater	N	01/15/2024	13:11	FS
CAP1Q24-BLADEN-1DR-011524	320-108762-10	Groundwater	N	01/15/2024	10:25	FS
CAP1Q24-EQBLK-PP-011724	320-108762-11	Blank Water	N	01/17/2024	13:00	EB
CAP1Q24-PIW-7D-011524-D	320-108762-2	Groundwater	N	01/15/2024	13:11	DUP
CAP1Q24-PIW-7S-011524	320-108762-3	Groundwater	N	01/15/2024	15:20	FS
CAP1Q24-SMW-12-011624	320-108762-4	Groundwater	N	01/16/2024	15:06	FS
CAP1Q24-LTW-04-011624	320-108762-5	Groundwater	N	01/16/2024	13:05	FS
CAP1Q24-PZ-22-011624	320-108762-6	Groundwater	N	01/16/2024	15:20	FS
CAP1Q24-PIW-1S-011624	320-108762-7	Groundwater	N	01/16/2024	15:47	FS
CAP1Q24-PW-06-011524	320-108762-8	Groundwater	N	01/15/2024	14:35	FS
CAP1Q24-LTW-05-011524	320-108762-9	Groundwater	N	01/15/2024	12:05	FS
CAP1Q24-PIW-1D-012224	320-109019-1	Groundwater	N	01/22/2024	12:04	FS
CAP1Q24-PIW-10DR-012224	320-109019-2	Groundwater	N	01/22/2024	11:00	FS
CAP1Q24-PIW-4D-012224	320-109019-3	Groundwater	N	01/22/2024	14:45	FS
CAP1Q24-PIW-8D-012224	320-109019-4	Groundwater	N	01/22/2024	13:10	FS
CAP1Q24-EQBLK-DV-012224	320-109019-5	Blank Water	N	01/22/2024	16:05	EB
CAP1Q24-EQBLK-BAILER-012224	320-109019-6	Blank Water	N	01/22/2024	16:20	EB
CAP1Q24-EQBLK-BAILER-012224-Z	320-109019-7	Blank Water	Y	01/22/2024	16:25	EB
CAP1Q24-LTW-01-011724	320-109020-1	Groundwater	N	01/17/2024	13:40	FS
CAP1Q24-LTW-02-011724	320-109020-2	Groundwater	N	01/17/2024	12:40	FS
CAP1Q24-OW-37-011724	320-109020-3	Groundwater	N	01/17/2024	10:15	FS
CAP1Q24-SMW-10-011724	320-109020-4	Groundwater	N	01/17/2024	14:39	FS
CAP1Q24-PW-04-011724	320-109020-5	Groundwater	N	01/17/2024	15:55	FS
CAP1Q24-PW-04-011724-Z	320-109020-6	Groundwater	Y	01/17/2024	15:55	FS
CAP1Q24-PIW-3D-011824	320-109020-7	Groundwater	N	01/18/2024	13:21	FS
CAP1Q24-SMW-11-011824	320-109020-8	Groundwater	N	01/18/2024	15:25	FS
CAP1Q24-OW-28-011824	320-109020-9	Groundwater	N	01/18/2024	12:06	FS
CAP1Q24-PW-09-012324	320-109223-1	Groundwater	N	01/23/2024	14:40	FS
CAP1Q24-PW-09-012324-D	320-109223-2	Groundwater	N	01/23/2024	14:40	DUP
CAP1Q24-OW-32-012924	320-109381-1	Groundwater	N	01/29/2024	14:45	FS
CAP1Q24-PW-11-013124	320-109381-10	Groundwater	N	01/31/2024	14:27	FS
CAP1Q24-OW-4R-012924	320-109381-2	Groundwater	N	01/29/2024	11:00	FS
CAP1Q24-OW30-013024	320-109381-3	Groundwater	N	01/30/2024	15:15	FS
CAP1Q24-OW-40-013024	320-109381-4	Groundwater	N	01/30/2024	13:45	FS
CAP1Q24-OW-33-013024	320-109381-5	Groundwater	N	01/30/2024	12:14	FS
CAP1Q24-PW-10RR-013124	320-109381-6	Groundwater	N	01/31/2024	12:35	FS
CAP1Q24-LTW-03-013124	320-109381-7	Groundwater	N	01/31/2024	11:05	FS
CAP1Q24-PIW-6S-013124	320-109381-8	Groundwater	N	01/31/2024	12:47	FS
CAP1Q24-OW-51-013124	320-109381-9	Groundwater	N	01/31/2024	12:32	FS
CAP1Q24-OW-56-020124	320-109475-1	Groundwater	N	02/01/2024	15:00	FS

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
CAP1Q24-PIW-11-020124	320-109475-2	Groundwater	N	02/01/2024	11:45	FS
CAP1Q24-EQBLK-BP-020224	320-109475-3	Blank Water	N	02/02/2024	10:50	EB
CAP1Q24-OW-55-020524	320-109475-4	Groundwater	N	02/05/2024	12:30	FS
CAP1Q24-PIW-15-020524	320-109475-5	Groundwater	N	02/05/2024	15:10	FS
CAP1Q24-OW-54-020624	320-109475-6	Groundwater	N	02/06/2024	11:50	FS
CAP1Q24-OW-57-020624	320-109475-7	Groundwater	N	02/06/2024	13:25	FS
CAP1Q24-PW-07-020724	320-109816-1	Groundwater	N	02/07/2024	10:40	FS

* FS=Field Sample
 DUP=Field Duplicate
 FB=Field Blank
 EB=Equipment Blank
 TB=Trip Blank

Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Per- and Polyfluorinated Alkyl Substances (PFAS)	CAP GW Sampling 1Q24

ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?		X		X	
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?		X	X	X	
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X	X	
F	Were all data usable and not R qualified?	X				
ER#	Description					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to "DVM" if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals "DVM"), use the **Validation Qualifier**.

If the data have been validated by a third party, the field "**Validated By**" will be set to the validator (e.g., ESI for Environmental Standards, Inc.)

DVM Narrative Report

Site: Fayetteville

Sampling Program: CAP GW Sampling 1Q24

Validation Options:

LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluoropentane Sulfonic Acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFOA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluoroheptanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluoroheptane Sulfonic Acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorohexadecanoic Acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorononanesulfonic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluorododecane Sulfonic Acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-LTW-03-013124	01/31/2024	320-109381-7	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-LTW-03-013124	01/31/2024	320-109381-7	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-33-013024	01/30/2024	320-109381-5	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-33-013024	01/30/2024	320-109381-5	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-32-012924	01/29/2024	320-109381-1	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-32-012924	01/29/2024	320-109381-1	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-40-013024	01/30/2024	320-109381-4	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-40-013024	01/30/2024	320-109381-4	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-4R-012924	01/29/2024	320-109381-2	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-4R-012924	01/29/2024	320-109381-2	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-51-013124	01/31/2024	320-109381-9	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-51-013124	01/31/2024	320-109381-9	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-54-020624	02/06/2024	320-109475-6	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-54-020624	02/06/2024	320-109475-6	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-55-020524	02/05/2024	320-109475-4	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-55-020524	02/05/2024	320-109475-4	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-OW-56-020124	02/01/2024	320-109475-1	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-56-020124	02/01/2024	320-109475-1	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW30-013024	01/30/2024	320-109381-3	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW30-013024	01/30/2024	320-109381-3	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-15-020524	02/05/2024	320-109475-5	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-15-020524	02/05/2024	320-109475-5	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-57-020624	02/06/2024	320-109475-7	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-11-020124	02/01/2024	320-109475-2	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-11-020124	02/01/2024	320-109475-2	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-6S-013124	01/31/2024	320-109381-8	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-6S-013124	01/31/2024	320-109381-8	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoro(2-ethoxyethane)sulfonic	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	10:2 Fluorotelomer sulfonate	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFOS	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoroundecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoropentane Sulfonic Acid (PFPeS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	6:2 Fluorotelomer sulfonate	0.0050	ug/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorohexanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorododecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-methyl perfluoro-1-octanesulfonamide	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	R-PSDCA	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.0040	ug/L	PQL		0.0040	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorodecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorodecane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorohexane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorobutane Sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoroheptane Sulfonic Acid (PFHpS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorononanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorotetradecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-ethylperfluoro-1-octanesulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorohexadecanoic Acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorononanesulfonic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorotridecanoic Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorooctane Sulfonamide	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	9CI-PF3ONS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 1Q24

Validation Options:

LABSTATS

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	11CI-PF3OUdS	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorododecane Sulfonic Acid (PFDoS)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	NVHOS, Acid Form	0.0030	UG/L	PQL		0.0030	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	DONA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-10RR-013124	01/31/2024	320-109381-6	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PW-10RR-013124	01/31/2024	320-109381-6	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-PW-11-013124	01/31/2024	320-109381-10	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 1Q24

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-OW-56-020124	02/01/2024	320-109475-1	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-56-020124	02/01/2024	320-109475-1	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-BP-020224	02/02/2024	320-109475-3	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-OW-54-020624	02/06/2024	320-109475-6	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-54-020624	02/06/2024	320-109475-6	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-55-020524	02/05/2024	320-109475-4	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-55-020524	02/05/2024	320-109475-4	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-15-020524	02/05/2024	320-109475-5	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-15-020524	02/05/2024	320-109475-5	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-OW-57-020624	02/06/2024	320-109475-7	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-11-020124	02/01/2024	320-109475-2	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PIW-11-020124	02/01/2024	320-109475-2	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 1Q24

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-OW-32-012924	01/29/2024	320-109381-1	Perfluorononanoic Acid	0.034	UG/L	PQL		0.034	UJ	537 Modified		3535
CAP1Q24-PW-09-012324	01/23/2024	320-109223-1	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PPF Acid	0.31	UG/L	PQL		0.31	UJ	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PPF Acid	0.31	UG/L	PQL		0.31	UJ	537 Modified		3535
CAP1Q24-PIW-7D-011524-D	01/15/2024	320-108762-2	6:2 Fluorotelomer sulfonate	0.31	ug/L	PQL		0.31	UJ	537 Modified		3535
CAP1Q24-PW-06-011524	01/15/2024	320-108762-8	6:2 Fluorotelomer sulfonate	0.31	ug/L	PQL		0.31	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoro(2-ethoxyethane)sulfonic	0.036	UG/L	PQL		0.036	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	10:2 Fluorotelomer sulfonate	0.084	ug/L	PQL		0.084	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFECA B	0.078	UG/L	PQL		0.078	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorooctadecanoic Acid	0.12	ug/L	PQL		0.12	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFOS	0.068	UG/L	PQL		0.068	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoroundecanoic Acid	0.14	UG/L	PQL		0.14	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	0.15	UG/L	PQL		0.15	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoropentane Sulfonic Acid (PFPeS)	0.038	ug/L	PQL		0.038	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	6:2 Fluorotelomer sulfonate	0.31	ug/L	PQL		0.31	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	0.16	UG/L	PQL		0.16	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorohexanoic Acid	0.073	UG/L	PQL		0.073	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorododecanoic Acid	0.069	UG/L	PQL		0.069	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-methyl perfluoro-1-octanesulfonamide	0.054	ug/L	PQL		0.054	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFOA	0.11	UG/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hydrolyzed PSDA	0.034	UG/L	PQL		0.034	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	R-PSDCA	0.18	UG/L	PQL		0.18	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	R-EVE	0.039	UG/L	PQL		0.039	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.18	ug/L	PQL		0.18	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PEPA	0.060	UG/L	PQL		0.060	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorodecanoic Acid	0.039	UG/L	PQL		0.039	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorodecane Sulfonic Acid	0.040	UG/L	PQL		0.040	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorohexane Sulfonic Acid	0.071	UG/L	PQL		0.071	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorobutanoic Acid	0.30	UG/L	PQL		0.30	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hfpo Dimer Acid	0.19	UG/L	PQL		0.19	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoropentanoic Acid	0.061	UG/L	PQL		0.061	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorobutane Sulfonic Acid	0.025	UG/L	PQL		0.025	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoroheptanoic Acid	0.031	UG/L	PQL		0.031	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoroheptane Sulfonic Acid (PFHpS)	0.024	ug/L	PQL		0.024	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorononanoic Acid	0.034	UG/L	PQL		0.034	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorotetradecanoic Acid	0.091	UG/L	PQL		0.091	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.058	ug/L	PQL		0.058	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO5DA	0.13	ug/L	PQL		0.13	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	N-ethylperfluoro-1-octanesulfonamide	0.11	UG/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorohexadecanoic Acid (PFHxDA)	0.11	ug/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorononanesulfonic Acid	0.046	ug/L	PQL		0.046	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorotridecanoic Acid	0.16	UG/L	PQL		0.16	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hydro-PS Acid	0.055	ug/L	PQL		0.055	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorooctane Sulfonamide	0.12	UG/L	PQL		0.12	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	9CI-PF3ONS	0.030	ug/L	PQL		0.030	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.030	ug/L	PQL		0.030	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	11CI-PF3OUdS	0.040	ug/L	PQL		0.040	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hydro-EVE Acid	0.030	UG/L	PQL		0.030	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorododecane Sulfonic Acid (PFDoS)	0.12	ug/L	PQL		0.12	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	NVHOS, Acid Form	0.16	UG/L	PQL		0.16	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFECA-G	0.036	UG/L	PQL		0.036	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	DONA	0.050	ug/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO3OA	0.11	ug/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO4DA	0.050	ug/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-PZ-22-011624	01/16/2024	320-108762-6	6:2 Fluorotelomer sulfonate	0.31	ug/L	PQL		0.31	UJ	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 1Q24

Validation Options: LABSTATS

Validation Reason Code: High relative percent difference (RPD) observed between LCS and LCSD samples. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PZ-22-011624	01/16/2024	320-108762-6	PPF Acid	72	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PIW-7D-011524-D	01/15/2024	320-108762-2	PPF Acid	73	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PIW-7D-011524	01/15/2024	320-108762-1	PPF Acid	71	UG/L	PQL		0.31	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-SMW-11-011824	01/18/2024	320-109020-8	R-PSDA	0.12	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-SMW-11-011824	01/18/2024	320-109020-8	R-PSDA	0.12	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-SMW-11-011824	01/18/2024	320-109020-8	Hydrolyzed PSDA	0.088	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-SMW-11-011824	01/18/2024	320-109020-8	Hydrolyzed PSDA	0.088	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-SMW-11-011824	01/18/2024	320-109020-8	R-EVE	0.088	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-SMW-11-011824	01/18/2024	320-109020-8	R-EVE	0.088	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-SMW-12-011624	01/16/2024	320-108762-4	R-PSDA	0.065	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-SMW-12-011624	01/16/2024	320-108762-4	R-EVE	0.045	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PZ-22-011624	01/16/2024	320-108762-6	R-PSDA	0.44	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PZ-22-011624	01/16/2024	320-108762-6	Hydrolyzed PSDA	1.1	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PZ-22-011624	01/16/2024	320-108762-6	R-EVE	0.30	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PW-11-013124	01/31/2024	320-109381-10	R-PSDA	0.30	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PW-11-013124	01/31/2024	320-109381-10	Hydrolyzed PSDA	0.85	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PW-11-013124	01/31/2024	320-109381-10	R-EVE	0.11	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PW-10RR-013124	01/31/2024	320-109381-6	R-PSDA	0.084	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PW-10RR-013124	01/31/2024	320-109381-6	Hydrolyzed PSDA	0.084	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PW-10RR-013124	01/31/2024	320-109381-6	R-EVE	0.12	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-7S-011524	01/15/2024	320-108762-3	R-PSDA	0.79	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-7S-011524	01/15/2024	320-108762-3	Hydrolyzed PSDA	0.045	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-7S-011524	01/15/2024	320-108762-3	R-EVE	0.88	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-8D-012224	01/22/2024	320-109019-4	R-PSDA	2.6	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-8D-012224	01/22/2024	320-109019-4	Hydrolyzed PSDA	5.3	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-8D-012224	01/22/2024	320-109019-4	R-EVE	2.3	UG/L	PQL		0.039	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PW-04-011724	01/17/2024	320-109020-5	R-PSDA	0.13	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PW-04-011724	01/17/2024	320-109020-5	R-PSDA	0.13	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PW-04-011724	01/17/2024	320-109020-5	R-EVE	0.066	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PW-04-011724	01/17/2024	320-109020-5	R-EVE	0.066	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PW-04-011724-Z	01/17/2024	320-109020-6	R-PSDA	0.13	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PW-04-011724-Z	01/17/2024	320-109020-6	R-PSDA	0.13	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PW-04-011724-Z	01/17/2024	320-109020-6	R-EVE	0.065	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PW-04-011724-Z	01/17/2024	320-109020-6	R-EVE	0.065	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PW-06-011524	01/15/2024	320-108762-8	R-PSDA	0.042	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-7D-011524	01/15/2024	320-108762-1	R-PSDA	0.57	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-7D-011524	01/15/2024	320-108762-1	Hydrolyzed PSDA	1.1	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-7D-011524	01/15/2024	320-108762-1	R-EVE	0.54	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-7D-011524-D	01/15/2024	320-108762-2	R-PSDA	0.56	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-7D-011524-D	01/15/2024	320-108762-2	Hydrolyzed PSDA	1.1	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-7D-011524-D	01/15/2024	320-108762-2	R-EVE	0.60	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-15-020524	02/05/2024	320-109475-5	R-PSDA	0.19	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-15-020524	02/05/2024	320-109475-5	R-EVE	0.13	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW30-013024	01/30/2024	320-109381-3	R-PSDA	0.34	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW30-013024	01/30/2024	320-109381-3	Hydrolyzed PSDA	0.52	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW30-013024	01/30/2024	320-109381-3	R-EVE	0.27	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-1D-012224	01/22/2024	320-109019-1	R-PSDA	0.38	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-1D-012224	01/22/2024	320-109019-1	R-EVE	0.18	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-1S-011624	01/16/2024	320-108762-7	R-PSDA	0.11	UG/L	PQL		0.035	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PIW-3D-011824	01/18/2024	320-109020-7	R-PSDA	0.78	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-3D-011824	01/18/2024	320-109020-7	R-PSDA	0.78	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-3D-011824	01/18/2024	320-109020-7	Hydrolyzed PSDA	0.47	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-3D-011824	01/18/2024	320-109020-7	Hydrolyzed PSDA	0.47	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-3D-011824	01/18/2024	320-109020-7	R-EVE	0.39	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-3D-011824	01/18/2024	320-109020-7	R-EVE	0.39	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-4D-012224	01/22/2024	320-109019-3	R-PSDA	0.020	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PIW-4D-012224	01/22/2024	320-109019-3	Hydrolyzed PSDA	0.080	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PIW-4D-012224	01/22/2024	320-109019-3	R-EVE	0.012	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PIW-6S-013124	01/31/2024	320-109381-8	R-PSDA	0.73	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-6S-013124	01/31/2024	320-109381-8	Hydrolyzed PSDA	4.3	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-6S-013124	01/31/2024	320-109381-8	R-EVE	0.36	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-10DR-012224	01/22/2024	320-109019-2	R-PSDA	0.61	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-10DR-012224	01/22/2024	320-109019-2	Hydrolyzed PSDA	2.3	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-10DR-012224	01/22/2024	320-109019-2	R-EVE	0.40	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-PIW-11-020124	02/01/2024	320-109475-2	R-PSDA	0.23	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PIW-11-020124	02/01/2024	320-109475-2	Hydrolyzed PSDA	2.8	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-PIW-11-020124	02/01/2024	320-109475-2	R-EVE	0.077	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-57-020624	02/06/2024	320-109475-7	R-PSDA	1.2	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-57-020624	02/06/2024	320-109475-7	Hydrolyzed PSDA	15	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-57-020624	02/06/2024	320-109475-7	R-EVE	0.21	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-56-020124	02/01/2024	320-109475-1	R-PSDA	0.14	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-56-020124	02/01/2024	320-109475-1	R-EVE	0.11	UG/L	PQL		0.039	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-OW-55-020524	02/05/2024	320-109475-4	R-PSDA	0.10	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-55-020524	02/05/2024	320-109475-4	R-EVE	0.085	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-54-020624	02/06/2024	320-109475-6	R-PSDA	0.078	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-54-020624	02/06/2024	320-109475-6	R-EVE	0.042	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-51-013124	01/31/2024	320-109381-9	R-PSDA	0.65	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-51-013124	01/31/2024	320-109381-9	Hydrolyzed PSDA	1.4	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-51-013124	01/31/2024	320-109381-9	R-EVE	0.70	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-4R-012924	01/29/2024	320-109381-2	R-PSDA	0.57	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-4R-012924	01/29/2024	320-109381-2	Hydrolyzed PSDA	2.3	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-4R-012924	01/29/2024	320-109381-2	R-EVE	0.39	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-33-013024	01/30/2024	320-109381-5	R-PSDA	0.21	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-33-013024	01/30/2024	320-109381-5	Hydrolyzed PSDA	0.038	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-33-013024	01/30/2024	320-109381-5	R-EVE	0.14	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-37-011724	01/17/2024	320-109020-3	R-PSDA	0.10	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-37-011724	01/17/2024	320-109020-3	R-PSDA	0.10	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-37-011724	01/17/2024	320-109020-3	Hydrolyzed PSDA	0.083	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-37-011724	01/17/2024	320-109020-3	Hydrolyzed PSDA	0.083	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-40-013024	01/30/2024	320-109381-4	R-PSDA	0.20	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-40-013024	01/30/2024	320-109381-4	Hydrolyzed PSDA	0.065	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-40-013024	01/30/2024	320-109381-4	R-EVE	0.10	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LTW-04-011624	01/16/2024	320-108762-5	R-PSDA	1.4	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LTW-04-011624	01/16/2024	320-108762-5	Hydrolyzed PSDA	2.8	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LTW-04-011624	01/16/2024	320-108762-5	R-EVE	1.1	UG/L	PQL		0.039	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-LTW-05-011524	01/15/2024	320-108762-9	R-PSDA	1.3	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LTW-05-011524	01/15/2024	320-108762-9	Hydrolyzed PSDA	2.6	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LTW-05-011524	01/15/2024	320-108762-9	R-EVE	1.5	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-28-011824	01/18/2024	320-109020-9	R-PSDA	0.28	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-28-011824	01/18/2024	320-109020-9	R-PSDA	0.28	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-28-011824	01/18/2024	320-109020-9	R-EVE	0.12	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-28-011824	01/18/2024	320-109020-9	R-EVE	0.12	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-OW-32-012924	01/29/2024	320-109381-1	R-PSDA	0.22	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-OW-32-012924	01/29/2024	320-109381-1	Hydrolyzed PSDA	0.65	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-OW-32-012924	01/29/2024	320-109381-1	R-EVE	0.14	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LTW-01-011724	01/17/2024	320-109020-1	R-PSDA	0.83	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LTW-01-011724	01/17/2024	320-109020-1	R-PSDA	0.83	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LTW-01-011724	01/17/2024	320-109020-1	Hydrolyzed PSDA	0.083	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LTW-01-011724	01/17/2024	320-109020-1	Hydrolyzed PSDA	0.083	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LTW-01-011724	01/17/2024	320-109020-1	R-EVE	0.31	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LTW-01-011724	01/17/2024	320-109020-1	R-EVE	0.31	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LTW-02-011724	01/17/2024	320-109020-2	R-PSDA	0.78	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LTW-02-011724	01/17/2024	320-109020-2	R-PSDA	0.78	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LTW-02-011724	01/17/2024	320-109020-2	Hydrolyzed PSDA	1.8	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LTW-02-011724	01/17/2024	320-109020-2	Hydrolyzed PSDA	1.8	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LTW-02-011724	01/17/2024	320-109020-2	R-EVE	0.44	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LTW-02-011724	01/17/2024	320-109020-2	R-EVE	0.44	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LTW-03-013124	01/31/2024	320-109381-7	R-PSDA	0.77	UG/L	PQL		0.035	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP GW Sampling 1Q24

Validation Options: LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-LTW-03-013124	01/31/2024	320-109381-7	Hydrolyzed PSDA	5.3	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LTW-03-013124	01/31/2024	320-109381-7	R-EVE	0.32	UG/L	PQL		0.039	J	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO4DA	0.060	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-11-013124	01/31/2024	320-109381-10	Perfluoropentanoic Acid	0.23	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-PW-11-013124	01/31/2024	320-109381-10	PS Acid	0.097	UG/L	PQL		0.050	J	537 Modified		3535
CAP1Q24-PW-11-013124	01/31/2024	320-109381-10	Perfluoroheptanoic Acid	0.11	UG/L	PQL		0.031	J	537 Modified		3535
CAP1Q24-PW-10RR-013124	01/31/2024	320-109381-6	Perfluoropentanoic Acid	0.52	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hydro-EVE Acid	0.0071	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hydro-PS Acid	0.016	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PPF Acid	0.45	UG/L	PQL		0.0050	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFMOAA	0.078	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO2HxA	0.25	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoroheptanoic Acid	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluoropentanoic Acid	0.0059	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Hfpo Dimer Acid	0.12	UG/L	PQL		0.0040	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	Perfluorobutanoic Acid	0.0094	UG/L	PQL		0.0050	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PEPA	0.053	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	R-EVE	0.029	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFOA	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	R-PSDA	0.092	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PMPA	0.26	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OW30-013024	01/30/2024	320-109381-3	Perfluoropentanoic Acid	0.46	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-PIW-6S-013124	01/31/2024	320-109381-8	Perfluoropentanoic Acid	0.76	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-OW-57-020624	02/06/2024	320-109475-7	PS Acid	0.33	UG/L	PQL		0.050	J	537 Modified		3535
CAP1Q24-OW-51-013124	01/31/2024	320-109381-9	Perfluoroheptanoic Acid	0.20	UG/L	PQL		0.031	J	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-OW-51-013124	01/31/2024	320-109381-9	Perfluoropentanoic Acid	1.4	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-OW-33-013024	01/30/2024	320-109381-5	Perfluoropentanoic Acid	0.12	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-OW-40-013024	01/30/2024	320-109381-4	Perfluoropentanoic Acid	0.075	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-LTW-03-013124	01/31/2024	320-109381-7	Perfluoropentanoic Acid	0.56	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PPF Acid	0.19	UG/L	PQL		0.0050	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFMOAA	0.028	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PEPA	0.11	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Perfluoropentanoic Acid	0.0032	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	R-EVE	0.0047	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	R-PSDA	0.012	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PMPA	0.32	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	Hfpo Dimer Acid	0.16	UG/L	PQL		0.0040	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFO2HxA	0.11	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-BLADEN-1DR-011524	01/15/2024	320-108762-10	PFO3OA	0.014	ug/L	PQL		0.0020	J	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-SMW-12-011624	01/16/2024	320-108762-4	PPF Acid	6.4	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-SMW-12-011624	01/16/2024	320-108762-4	PPF Acid	4.0	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PPF Acid	0.35	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PPF Acid	0.56	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFMOAA	0.084	ug/L	PQL		0.051	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PFO2HxA	0.23	ug/L	PQL		0.069	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	R-PSDA	0.046	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-PW-07-020724	02/07/2024	320-109816-1	PMPA	0.23	UG/L	PQL		0.043	J	537 Modified		3535
CAP1Q24-PW-06-011524	01/15/2024	320-108762-8	PPF Acid	0.95	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PW-06-011524	01/15/2024	320-108762-8	PPF Acid	0.59	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PW-06-011524	01/15/2024	320-108762-8	PFMOAA	0.13	ug/L	PQL		0.051	J	537 Modified		3535
CAP1Q24-PIW-7S-011524	01/15/2024	320-108762-3	PPF Acid	17	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PIW-7S-011524	01/15/2024	320-108762-3	PPF Acid	11	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PIW-1S-011624	01/16/2024	320-108762-7	PPF Acid	1.3	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PIW-1S-011624	01/16/2024	320-108762-7	PPF Acid	0.79	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-PIW-1S-011624	01/16/2024	320-108762-7	PFMOAA	0.39	ug/L	PQL		0.051	J	537 Modified		3535
CAP1Q24-LTW-04-011624	01/16/2024	320-108762-5	PPF Acid	43	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-LTW-04-011624	01/16/2024	320-108762-5	PPF Acid	28	UG/L	PQL		0.31	J	537 Modified		3535

ADQM Data Review

Site: Chemours Fayetteville

Project: CAP SW Sampling 1Q24

Project Reviewer: Bridget Gavaghan

Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
CAP1Q24-WC-6-24-012524	320-109127-1	Surface Water	N	01/25/2024	07:00	FS
RIVER-WATER-INTAKE2-24-012524	320-109127-2	Surface Water	N	01/25/2024	07:06	FS
CAP1Q24-SEEP-A-EFF-24-012524	320-109127-3	Surface Water	N	01/25/2024	07:12	FS
CAP1Q24-SEEP-C-EFF-24-012524	320-109127-4	Surface Water	N	01/25/2024	07:24	FS
CAP1Q24-OUTFALL-002-24-012524	320-109127-5	Surface Water	N	01/25/2024	07:24	FS
CAP1Q24-OLDOF-1B-24-012524	320-109127-6	Surface Water	N	01/25/2024	07:36	FS
CAP1Q24-CFR-TARHEEL-24-012524	320-109127-7	Surface Water	N	01/25/2024	10:24	FS
CAP1Q24-EQBLK-PP-012524	320-109127-8	Blank Water	N	01/25/2024	13:50	EB
CAP1Q24-EQBLK-IS-012524	320-109127-9	Blank Water	N	01/25/2024	13:35	EB
CAP1Q24-GBC-5-012424	320-109128-1	Surface Water	N	01/24/2024	12:10	FS
CAP1Q24-LOCK-DAM-SEEP-012424	320-109128-2	Surface Water	N	01/24/2024	12:15	FS
CAP1Q24-LOCK-DAM-SEEP-012424-D	320-109128-3	Surface Water	N	01/24/2024	12:15	DUP
CAP1Q24-CFR-RM-76-012424	320-109128-4	Surface Water	N	01/24/2024	09:15	FS
CAP1Q24-CFR-BLADEN-012424	320-109128-5	Surface Water	N	01/24/2024	13:50	FS
CAP1Q24-CFR-TARHEEL-012424	320-109128-6	Surface Water	N	01/24/2024	14:10	FS
CAP1Q24-CFR-KINGS-012524	320-109128-7	Surface Water	N	01/25/2024	12:07	FS
CAP1Q24-SEEP-B-EFF-24-012624	320-109219-1	Surface Water	N	01/26/2024	08:47	FS
CAP1Q24-SEEP-D-EFF-24-012624	320-109219-2	Surface Water	N	01/26/2024	08:30	FS
CAP1Q24-WC-1-24-022224	320-109943-1	Surface Water	N	02/22/2024	09:06	FS
CAP1Q24-WC-2-24-022224	320-109943-2	Surface Water	N	02/22/2024	08:50	FS
CAP1Q24-WC-3-24-022224	320-109943-3	Surface Water	N	02/22/2024	08:27	FS
CAP1Q24-WC-3-24-022224-D	320-109943-4	Surface Water	N	02/22/2024	08:27	DUP
CAP1Q24-EQBLK-IS-022224	320-109943-5	Blank Water	N	02/22/2024	15:30	EB

* FS=Field Sample
 DUP=Field Duplicate
 FB=Field Blank
 EB=Equipment Blank
 TB=Trip Blank

Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins Environ Testing Northern Cali	537 Modified	Per- and Polyfluorinated Alkyl Substances (PFAS)	CAP SW Sampling 1Q24

ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?	X				
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?		X	X	X	
E	Were data review criteria met for method blanks, LCSs/LCSDs, MSs/MSDs, PDSs, SDs, replicates, surrogates, sample results within calibration range, total/dissolved samples, field duplicates, field/equipment/trip blanks?		X	X	X	
F	Were all data usable and not R qualified?	X				
ER#	Description					
Other QA/QC Items to Note:						

* See DVM Narrative Report, Laboratory Report, and/or ER # for further details as indicated.

The electronic data submitted for this project were reviewed via the Data Verification Module (DVM) process. Overall, the data are acceptable for use without qualification, except as noted on the attached DVM Narrative Report.

The lab reports due to a large page count are stored on a network shared drive and are available to be posted on external shared drives, or on a flash drive.

Data Verification Module (DVM)

The DVM is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software, Locus EIM™ database Data Verification Module (DVM), and manual reviewer evaluations. The data are evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike (MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- Difference/RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference/percent difference between total and dissolved sample pairs

There are two qualifier fields in EIM:

Laboratory Qualifier is the qualifier assigned by the laboratory and may not reflect the usability of the data. This qualifier may have many different meanings and can vary between labs and over time within the same lab. Please refer to the laboratory report for a description of the laboratory qualifiers. As they are laboratory descriptors they are not to be used when evaluating the data.

Validation Qualifier is the 3rd party formal validation qualifier if this was performed. Otherwise this field contains the qualifier resulting from the ADQM DVM review process. This qualifier assesses the usability of the data and may not equal the laboratory qualifier. The DVM applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

The **Validation Status Code** field is set to "DVM" if the ADQM DVM process has been performed. If the DVM has not been run, the field will be blank.

If the DVM has been run (**Validation Status Code** equals "DVM"), use the **Validation Qualifier**.

If the data have been validated by a third party, the field "**Validated By**" will be set to the validator (e.g., ESI for Environmental Standards, Inc.).

DVM Narrative Report

Site: Fayetteville

Sampling Program: CAP SW Sampling 1Q24

Validation Options: LABSTATS

Validation Reason Code: Only one surrogate has relative percent recovery (RPR) values outside control limits and the parameter is a PFC (Nondetects).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-CFR-TARHEEL-012424	01/24/2024	320-109128-6	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-CFR-TARHEEL-012424	01/24/2024	320-109128-6	Perfluorohexadecanoic Acid (PFHxDA)	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-EQBLK-IS-022224	02/22/2024	320-109943-5	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFECA B	0.078	UG/L	PQL		0.078	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorooctadecanoic Acid	0.12	ug/L	PQL		0.12	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	0.11	ug/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFOS	0.068	UG/L	PQL		0.068	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluoroundecanoic Acid	0.14	UG/L	PQL		0.14	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	0.15	UG/L	PQL		0.15	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluoro(2-ethoxyethane)sulfonic	0.036	UG/L	PQL		0.036	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	10:2 Fluorotelomer sulfonate	0.084	ug/L	PQL		0.084	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	R-PSDCA	0.18	UG/L	PQL		0.18	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	0.18	ug/L	PQL		0.18	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	6:2 Fluorotelomer sulfonate	0.31	ug/L	PQL		0.31	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PS Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	0.16	UG/L	PQL		0.16	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorohexanoic Acid	0.073	UG/L	PQL		0.073	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorododecanoic Acid	0.069	UG/L	PQL		0.069	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	N-methyl perfluoro-1-octanesulfonamide	0.054	ug/L	PQL		0.054	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFOA	0.11	UG/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorodecanoic Acid	0.039	UG/L	PQL		0.039	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorodecane Sulfonic Acid	0.040	UG/L	PQL		0.040	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorohexane Sulfonic Acid	0.071	UG/L	PQL		0.071	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorobutanoic Acid	0.30	UG/L	PQL		0.30	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorobutane Sulfonic Acid	0.025	UG/L	PQL		0.025	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluoroheptane Sulfonic Acid (PFHpS)	0.024	ug/L	PQL		0.024	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorononanoic Acid	0.034	UG/L	PQL		0.034	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorotetradecanoic Acid	0.091	UG/L	PQL		0.091	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	0.058	ug/L	PQL		0.058	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluoropentane Sulfonic Acid (PFPeS)	0.038	ug/L	PQL		0.038	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	N-ethylperfluoro-1-octanesulfonamide	0.11	UG/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorohexadecanoic Acid (PFHxDA)	0.11	ug/L	PQL		0.11	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorononanesulfonic Acid	0.046	ug/L	PQL		0.046	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	EVE Acid	0.050	UG/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorotridecanoic Acid	0.16	UG/L	PQL		0.16	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFECA-G	0.036	UG/L	PQL		0.036	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	DONA	0.050	ug/L	PQL		0.050	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorooctane Sulfonamide	0.12	UG/L	PQL		0.12	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	9CI-PF3ONS	0.030	ug/L	PQL		0.030	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	0.030	ug/L	PQL		0.030	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	11CI-PF3OUdS	0.040	ug/L	PQL		0.040	UJ	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluorododecane Sulfonic Acid (PFDoS)	0.12	ug/L	PQL		0.12	UJ	537 Modified		3535

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit but above 10%. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-CFR-BLADEN-012424	01/24/2024	320-109128-5	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-CFR-KINGS-012524	01/25/2024	320-109128-7	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-CFR-RM-76-012424	01/24/2024	320-109128-4	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-CFR-TARHEEL-012424	01/24/2024	320-109128-6	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-CFR-TARHEEL-24-012524	01/25/2024	320-109127-7	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-IS-012524	01/25/2024	320-109127-9	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-PP-012524	01/25/2024	320-109127-8	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-GBC-5-012424	01/24/2024	320-109128-1	Perfluorobutanoic Acid	0.0050	UG/L	PQL		0.0050	UJ	537 Modified		3535
CAP1Q24-OLDOF-1B-24-012524	01/25/2024	320-109127-6	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-SEEP-B-EFF-24-012624	01/26/2024	320-109219-1	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-SEEP-C-EFF-24-012524	01/25/2024	320-109127-4	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-SEEP-D-EFF-24-012624	01/26/2024	320-109219-2	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-OUTFALL-002-24-012524	01/25/2024	320-109127-5	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-SEEP-A-EFF-24-012524	01/25/2024	320-109127-3	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-WC-6-24-012524	01/25/2024	320-109127-1	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
RIVER-WATER-INTAKE2-24-012524	01/25/2024	320-109127-2	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-CFR-TARHEEL-24-012524	01/25/2024	320-109127-7	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-IS-012524	01/25/2024	320-109127-9	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-EQBLK-PP-012524	01/25/2024	320-109127-8	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-SEEP-C-EFF-24-012524	01/25/2024	320-109127-4	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-OUTFALL-002-24-012524	01/25/2024	320-109127-5	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-SEEP-A-EFF-24-012524	01/25/2024	320-109127-3	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
CAP1Q24-WC-6-24-012524	01/25/2024	320-109127-1	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535
RIVER-WATER-INTAKE2-24-012524	01/25/2024	320-109127-2	Perfluorooctadecanoic Acid	0.0020	ug/L	PQL		0.0020	UJ	537 Modified		3535

Validation Reason Code: High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-WC-3-24-022224	02/22/2024	320-109943-3	PMPA	0.083	UG/L	PQL		0.0034	J	537 Modified		3535
CAP1Q24-WC-3-24-022224	02/22/2024	320-109943-3	Hfpo Dimer Acid	0.050	UG/L	PQL		0.015	J	537 Modified		3535
CAP1Q24-WC-3-24-022224	02/22/2024	320-109943-3	R-PSDA	0.0033	UG/L	PQL		0.0028	J	537 Modified		3535
CAP1Q24-WC-3-24-022224	02/22/2024	320-109943-3	Perfluorobutane Sulfonic Acid	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-3-24-022224	02/22/2024	320-109943-3	PFO2HxA	0.044	ug/L	PQL		0.0055	J	537 Modified		3535
CAP1Q24-WC-3-24-022224	02/22/2024	320-109943-3	PFMOAA	0.022	ug/L	PQL		0.0041	J	537 Modified		3535
CAP1Q24-WC-3-24-022224-D	02/22/2024	320-109943-4	PMPA	0.14	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-3-24-022224-D	02/22/2024	320-109943-4	Hfpo Dimer Acid	0.094	UG/L	PQL		0.0040	J	537 Modified		3535
CAP1Q24-WC-3-24-022224-D	02/22/2024	320-109943-4	R-PSDA	0.0092	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-3-24-022224-D	02/22/2024	320-109943-4	Perfluorobutane Sulfonic Acid	0.0064	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-3-24-022224-D	02/22/2024	320-109943-4	PFO2HxA	0.086	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-3-24-022224-D	02/22/2024	320-109943-4	PFMOAA	0.038	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	6:2 Fluorotelomer sulfonate	1.7	ug/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFO4DA	2.8	ug/L	PQL		0.050	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	PFO4DA	1.5	ug/L	PQL		0.050	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	PFO4DA	1.5	ug/L	PQL		0.050	J	537 Modified		3535

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
RIVER-WATER-INTAKE2-24-012524	01/25/2024	320-109127-2	R-PSDA	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535
RIVER-WATER-INTAKE2-24-012524	01/25/2024	320-109127-2	Hydrolyzed PSDA	0.0029	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-6-24-012524	01/25/2024	320-109127-1	R-PSDA	0.030	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-6-24-012524	01/25/2024	320-109127-1	Hydrolyzed PSDA	0.10	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-6-24-012524	01/25/2024	320-109127-1	R-EVE	0.015	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-SEEP-B-EFF-24-012624	01/26/2024	320-109219-1	Hydrolyzed PSDA	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OUTFALL-002-24-012524	01/25/2024	320-109127-5	R-PSDA	0.018	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OUTFALL-002-24-012524	01/25/2024	320-109127-5	Hydrolyzed PSDA	0.027	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OUTFALL-002-24-012524	01/25/2024	320-109127-5	R-EVE	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-1-24-022224	02/22/2024	320-109943-1	R-PSDA	0.036	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-1-24-022224	02/22/2024	320-109943-1	Hydrolyzed PSDA	0.16	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-1-24-022224	02/22/2024	320-109943-1	R-EVE	0.018	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-2-24-022224	02/22/2024	320-109943-2	R-PSDA	0.012	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-2-24-022224	02/22/2024	320-109943-2	Hydrolyzed PSDA	0.014	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-2-24-022224	02/22/2024	320-109943-2	R-EVE	0.0077	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-WC-3-24-022224-D	02/22/2024	320-109943-4	R-EVE	0.0046	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OLDOF-1B-24-012524	01/25/2024	320-109127-6	R-PSDA	0.019	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OLDOF-1B-24-012524	01/25/2024	320-109127-6	Hydrolyzed PSDA	0.036	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OLDOF-1B-24-012524	01/25/2024	320-109127-6	R-EVE	0.013	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	R-EVE	0.18	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	R-PSDA	0.61	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Hydrolyzed PSDA	0.42	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	R-PSDA	0.69	UG/L	PQL		0.035	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP SW Sampling 1Q24

Validation Options: LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	R-PSDA	0.69	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	Hydrolyzed PSDA	0.43	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	Hydrolyzed PSDA	0.43	UG/L	PQL		0.034	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	R-EVE	0.18	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	R-EVE	0.18	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-GBC-5-012424	01/24/2024	320-109128-1	R-PSDA	0.070	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-GBC-5-012424	01/24/2024	320-109128-1	R-EVE	0.021	UG/L	PQL		0.0020	J	537 Modified		3535

Validation Reason Code: The preparation hold time for this sample was exceeded by a factor of 2. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	NVHOS, Acid Form	0.94	UG/L	PQL		0.16	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Hydro-EVE Acid	0.17	UG/L	PQL		0.030	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Hydro-PS Acid	0.16	ug/L	PQL		0.055	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PPF Acid	18	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFMOAA	48	ug/L	PQL		0.051	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFO2HxA	23	ug/L	PQL		0.069	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFO3OA	13	ug/L	PQL		0.11	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PFO5DA	0.20	ug/L	PQL		0.13	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluoroheptanoic Acid	0.075	UG/L	PQL		0.031	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PEPA	2.0	UG/L	PQL		0.060	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Perfluoropentanoic Acid	0.43	UG/L	PQL		0.061	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	R-EVE	0.21	UG/L	PQL		0.039	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	PMPA	5.6	UG/L	PQL		0.043	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Hfpo Dimer Acid	7.3	UG/L	PQL		0.19	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	R-PSDA	0.53	UG/L	PQL		0.035	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424-D	01/24/2024	320-109128-3	Hydrolyzed PSDA	0.48	UG/L	PQL		0.034	J	537 Modified		3535

Site: Fayetteville

Sampling Program: CAP SW Sampling 1Q24

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q24-OLDOF-1B-24-012524	01/25/2024	320-109127-6	PFO3OA	0.11	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-OLDOF-1B-24-012524	01/25/2024	320-109127-6	PFO4DA	0.041	ug/L	PQL		0.0020	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	PFO3OA	11	ug/L	PQL		0.11	J	537 Modified		3535
CAP1Q24-LOCK-DAM-SEEP-012424	01/24/2024	320-109128-2	PFO3OA	11	ug/L	PQL		0.11	J	537 Modified		3535

Appendix E

Correction of PFPrA Concentration

**TABLE E1
REVISED AND ORIGINAL PFPA CONCENTRATIONS
TARHEEL SAMPLING AND MASS LOADING MODEL
Chemours Fayetteville Works, North Carolina**

Location	Sample ID	Sample Date	Sample Delivery Group	Laboratory Sample ID	PFPA Concentration (ng/L)		Factor (revised concentration / original concentration)
					Revised Concentration	Original Concentration	
BLADEN-IDR	CAP3Q23-BLADEN-1DR-071223	7/12/2023	320-102527-1	320-102527-9	240	160	1.50
BLADEN-IDR	CAP4Q23-BLADEN-1DR-010424	1/4/2024	320-108551-1	320-108551-1	200	130	1.54
CFR-BLADEN	CAP3Q23-CFR-BLADEN-072623	7/26/2023	320-103017-1	320-103017-5	44	26	1.69
CFR-BLADEN	CAP4Q23-CFR-BLADEN-120623	12/6/2023	320-107896-1	320-107896-1	49	31	1.58
CFR-KINGS	CAP3Q23-CFR-KINGS-080123	8/1/2023	320-103199-1	320-103199-2	32	21	1.52
CFR-KINGS	CAP4Q23-CFR-KINGS-121423	12/14/2023	320-108081-1	320-108081-1	44 J	28 J	1.57
CFR-MILE-76	CAP3Q23-CFR-RM-76-072623	7/26/2023	320-103017-1	320-103017-1	27	17	1.59
CFR-MILE-76	CAP4Q23-CFR-RM-76-112223	11/22/2023	320-107648-1	320-107648-1	20	11	1.82
CFR-TARHEEL	CAP3Q23-CFR-TARHEEL-072723	7/27/2023	320-103017-1	320-103017-6	44	26	1.69
CFR-TARHEEL	CAP3Q23-CFR-TARHEEL-6-072723	7/27/2023	320-103199-1	320-103199-1	32	20	1.60
CFR-TARHEEL	CAP4Q23-CFR-TARHEEL-120623	12/6/2023	320-107896-1	320-107896-2	50	32	1.56
CFR-TARHEEL	CAP4Q23-TARHEEL-24-112423	11/24/2023	320-107480-1	320-107480-8	37	25	1.48
CFR-TARHEEL	CFR-TARHEEL-121823	12/18/2023	320-108237-1	320-108237-2	37 J	24 J	1.54
CFR-TARHEEL	CFR-TARHEEL-121923	12/19/2023	320-108237-1	320-108237-3	<5	<5	--
CFR-TARHEEL	CFR-TARHEEL-24-100523	10/5/2023	320-105969-1	320-105969-1	40	26	1.54
CFR-TARHEEL	CFR-TARHEEL-24-101023	10/10/2023	320-105969-1	320-105969-2	40	26	1.54
CFR-TARHEEL	CFR-TARHEEL-24-101023-D	10/10/2023	320-105969-1	320-105969-3	40	27	1.48
CFR-TARHEEL	CFR-TARHEEL-24-101223	10/12/2023	320-106157-1	320-106157-1	38	25	1.52
CFR-TARHEEL	CFR-TARHEEL-24-101623	10/16/2023	320-106157-1	320-106157-2	55	36	1.53
CFR-TARHEEL	CFR-TARHEEL-24-101923	10/19/2023	320-106379-1	320-106379-1	42	26	1.62
CFR-TARHEEL	CFR-TARHEEL-24-102323	10/23/2023	320-106379-1	320-106379-2	41	26	1.58
CFR-TARHEEL	CFR-TARHEEL-24-102623	10/26/2023	320-106734-1	320-106734-1	26	17	1.53
CFR-TARHEEL	CFR-TARHEEL-24-103023	10/30/2023	320-106734-1	320-106734-2	29 J	19 J	1.53
CFR-TARHEEL	CFR-TARHEEL-24-110223	11/2/2023	320-106957-1	320-106957-1	55	34	1.62
CFR-TARHEEL	CFR-TARHEEL-24-110623	11/6/2023	320-106957-1	320-106957-2	35	23	1.52
CFR-TARHEEL	CFR-TARHEEL-24-110923	11/9/2023	320-107164-1	320-107164-1	37	24	1.54
CFR-TARHEEL	CFR-TARHEEL-24-111323	11/13/2023	320-107164-1	320-107164-2	40	27	1.48
CFR-TARHEEL	CFR-TARHEEL-24-111323-D	11/13/2023	320-107164-1	320-107164-3	41	27	1.52
CFR-TARHEEL	CFR-TARHEEL-24-111623	11/16/2023	320-107540-1	320-107540-1	45	30	1.50
CFR-TARHEEL	CFR-TARHEEL-24-112023	11/20/2023	320-107540-1	320-107540-2	65	44	1.48
CFR-TARHEEL	CFR-TARHEEL-24-112123	11/21/2023	320-107540-1	320-107540-3	47	31	1.52
CFR-TARHEEL	CFR-TARHEEL-24-112223	11/22/2023	320-107540-1	320-107540-4	41	27	1.52
CFR-TARHEEL	CFR-TARHEEL-24-112723	11/27/2023	320-107657-1	320-107657-1	52 J	33 J	1.58
CFR-TARHEEL	CFR-TARHEEL-24-113023	11/30/2023	320-107657-1	320-107657-2	50 J	32 J	1.56
CFR-TARHEEL	CFR-TARHEEL-24-120423	12/4/2023	320-107894-1	320-107894-1	50	31	1.61
CFR-TARHEEL	CFR-TARHEEL-24-120723	12/7/2023	320-107894-1	320-107894-2	46	29	1.59
CFR-TARHEEL	CFR-TARHEEL-24-121123	12/11/2023	320-108044-1	320-108044-1	41	26	1.58
CFR-TARHEEL	CFR-TARHEEL-24-121223	12/12/2023	320-108044-1	320-108044-2	38	24	1.58
CFR-TARHEEL	CFR-TARHEEL-24-121223-D	12/12/2023	320-108044-1	320-108044-3	47	30	1.57
CFR-TARHEEL	CFR-TARHEEL-24-121723	12/17/2023	320-108237-1	320-108237-1	24 J	15 J	1.60
CFR-TARHEEL	CFR-TARHEEL-24-122523	12/25/2023	320-108425-1	320-108425-1	15	9.8	1.53
CFR-TARHEEL	CFR-TARHEEL-24-122723	12/27/2023	320-108425-1	320-108425-2	17	11	1.55
EB	CAP3Q23-EQBLK-BAILER-102423	10/24/2023	320-106378-1	320-106378-1	<5	<5	--
EB	CAP3Q23-EQBLK-BAILER-102423-Z	10/24/2023	320-106378-1	320-106378-2	<5	<5	--
EB	CAP3Q23-EQBLK-BP-071123	7/11/2023	320-102509-1	320-102509-10	<5	<5	--
EB	CAP3Q23-EQBLK-DV-071223	7/12/2023	320-102509-1	320-102509-11	<5	<5	--
EB	CAP3Q23-EQBLK-DV-081623	8/16/2023	320-104043-1	320-104043-6	<5	<5	--
EB	CAP3Q23-EQBLK-FILTER-071423	7/14/2023	320-102718-1	320-102718-11	<5	<5	--
EB	CAP3Q23-EQBLK-PP-071223	7/12/2023	320-102527-1	320-102527-10	<5	<5	--
EB	CAP3Q23-EQBLK-PP-071723	7/17/2023	320-102718-1	320-102718-10	<5	<5	--
EB	CAP3Q23-EQBLK-PP-080423	8/4/2023	320-104043-1	320-104043-4	<5 UJ	<5 UJ	--
EB	CAP3Q23-EQBLK-PP-081823	8/18/2023	320-104043-1	320-104043-5	<5	<5	--
EB	CAP3Q23-EQBLK-PP-102423	10/24/2023	320-106378-1	320-106378-3	<5	<5	--
EB	CAP3Q23-EQBLK-PP-102423-Z	10/24/2023	320-106378-1	320-106378-4	<5	<5	--
EB	CAP4Q23-EQBLK-DV-110823	11/8/2023	320-106887-1	320-106887-6	<5	<5	--
EB	CAP4Q23-EQBLK-DV-110823-Z	11/8/2023	320-106887-1	320-106887-5	<5	<5	--
EB	CAP4Q23-EQBLK-PP-010424	1/4/2024	320-108551-1	320-108551-2	<5	<5	--
EB	CAP4Q23-EQBLK-PP-110823	11/8/2023	320-106887-1	320-106887-9	<5	<5	--
EB	CAP4Q23-EQBLK-PP-110823-Z	11/8/2023	320-106887-1	320-106887-8	<5	<5	--
EB	CAP4Q23-EQBLK-BAILER-110923	11/9/2023	320-107233-1	320-107233-6	<5	<5	--
EB	CAP4Q23-EQBLK-BAILER-110923-Z	11/9/2023	320-107233-1	320-107233-7	<5	<5	--
EB	CAP3Q23-EQBLK-IS-072723	7/27/2023	320-103017-1	320-103017-7	<5	<5	--
EB	CAP3Q23-EQBLK-PP-072723	7/27/2023	320-103017-1	320-103017-8	<5	<5	--
GBC-1	CAP3Q23-GBC-1-072623	7/26/2023	320-103017-1	320-103017-2	540	330	1.64
GBC-1	CAP4Q23-GBC-1-112223	11/22/2023	320-107648-1	320-107648-2	680	410	1.66
Lock-Dam North	CAP3Q23-LOCK-DAM-NORTH-072623	7/26/2023	320-103017-1	320-103017-4	5,500	3,300	1.67
Lock-Dam North	CAP4Q23-LOCK-DAM-NORTH-112223	11/22/2023	320-107648-1	320-107648-5	4,800	3,000	1.60
Lock-Dam Seep	CAP3Q23-LOCK-DAM-SEEP-072623	7/26/2023	320-103017-1	320-103017-3	22,000	13,000	1.69
Lock-Dam Seep	CAP4Q23-LOCK-DAM-SEEP-112223	11/22/2023	320-107648-1	320-107648-3	9,000 J	5,600 J	1.61
Lock-Dam Seep	CAP4Q23-LOCK-DAM-SEEP-112223-D	11/22/2023	320-107648-1	320-107648-4	8,600 J	10,000 J	0.86

**TABLE E1
REVISED AND ORIGINAL PFPrA CONCENTRATIONS
TARHEEL SAMPLING AND MASS LOADING MODEL
Chemours Fayetteville Works, North Carolina**

Location	Sample ID	Sample Date	Sample Delivery Group	Laboratory Sample ID	PFPrA Concentration (ng/L)		Factor (revised concentration / original concentration)
					Revised Concentration	Original Concentration	
LTW-01	CAP3Q23-LTW-01-071323	7/13/2023	320-102712-1	320-102712-2	22,000	14,000	1.57
LTW-01	CAP4Q23-LTW-01-110323	11/3/2023	320-106773-1	320-106773-1	24,000	14,000	1.71
LTW-02	CAP3Q23-LTW-02-071223	7/12/2023	320-102527-1	320-102527-8	16,000	11,000	1.45
LTW-02	CAP4Q23-LTW-02-110323	11/3/2023	320-106772-1	320-106772-7	21,000	13,000	1.62
LTW-03	CAP3Q23-LTW-03-071223	7/12/2023	320-102527-1	320-102527-5	62,000 J	37,000	1.68
LTW-03	CAP4Q23-LTW-03-111323	11/13/2023	320-107233-1	320-107233-3	61,000 J	38,000 J	1.61
LTW-04	CAP3Q23-LTW-04-071123	7/11/2023	320-102527-1	320-102527-1	53,000	29,000	1.83
LTW-04	CAP4Q23-LTW-04-110223	11/2/2023	320-106772-1	320-106772-5	48,000	30,000	1.60
LTW-05	CAP3Q23-LTW-05-071123	7/11/2023	320-102509-1	320-102509-6	83,000 J	52,000 J	1.60
LTW-05	CAP4Q23-LTW-05-110223	11/2/2023	320-106772-1	320-106772-1	120,000	68,000	1.76
OLDOF-1	CAP3Q23-OLDOF-1-24-072723	7/27/2023	320-103013-1	320-103013-6	1,400	920	1.52
OLDOF-1	CAP4Q23-OLDOF-1-24-112323	11/23/2023	320-107480-1	320-107480-9	1,600	1,000	1.60
OUTFALL 002	CAP3Q23-OUTFALL-002-24-072723	7/27/2023	320-103016-1	320-103016-4	730	460	1.59
OUTFALL 002	OUTFALL-002-24-072723-D	7/27/2023	320-103016-1	320-103016-5	730	480	1.52
OUTFALL 002	CAP4Q23-OUTFALL-002-112323	11/23/2023	320-107480-1	320-107480-6	230	150	1.53
OW-28	CAP3Q23-OW-28-071123	7/11/2023	320-102509-1	320-102509-5	5,200	3,500	1.49
OW-28	CAP4Q23-OW-28-110223	11/2/2023	320-106772-1	320-106772-6	5,500	3,500	1.57
OW-33	CAP3Q23-OW-33-071223	7/12/2023	320-102527-1	320-102527-3	9,900	5,400	1.83
OW-33	CAP4Q23-OW-33-110223	11/2/2023	320-106773-1	320-106773-3	9,400	6,000	1.57
OW-33	CAP4Q23-OW-33-110223-D	11/2/2023	320-106773-1	320-106773-4	9,000	5,900	1.53
PIW-1D	CAP3Q23-PIW-1D-080223	8/2/2023	320-103526-1	320-103526-4	12,000 J	7,800	1.54
PIW-1D	CAP4Q23-PIW-1D-110723	11/7/2023	320-106887-1	320-106887-1	12,000	7,500	1.60
PIW-1D	CAP4Q23-PIW-1D-110723-Z	11/7/2023	320-106887-1	320-106887-2	12,000	7,700	1.56
PIW-3D	CAP3Q23-PIW-3D-071323	7/13/2023	320-102712-1	320-102712-1	19,000	11,000	1.73
PIW-3D	CAP4Q23-PIW-3D-110323	11/3/2023	320-106773-1	320-106773-2	21,000	13,000	1.62
PIW-7D	CAP3Q23-PIW-7D-071123	7/11/2023	320-102509-1	320-102509-3	79,000 J	49,000 J	1.61
PIW-7D	CAP4Q23-PIW-7D-110223	11/2/2023	320-106772-1	320-106772-3	86,000	52,000	1.65
PIW-7S	CAP3Q23-PIW-7S-071123	7/11/2023	320-102509-1	320-102509-2	14,000	9,700	1.44
PIW-7S	CAP4Q23-PIW-7S-110223	11/2/2023	320-106772-1	320-106772-2	18,000	12,000	1.50
PW-04	CAP3Q23-PW-04-072823	7/28/2023	320-103202-1	320-103202-5	1,400	900	1.56
PW-04	CAP3Q23-PW-04-072823-Z	7/28/2023	320-103202-1	320-103202-6	1,600	890	1.80
PW-04	CAP4Q23-PW-04-110923	11/9/2023	320-107233-1	320-107233-1	1,500	960	1.56
PW-04	CAP4Q23-PW-04-110923-Z	11/9/2023	320-107233-1	320-107233-2	1,500	980	1.53
PW-06	CAP3Q23-PW-06-071023	7/10/2023	320-102399-1	320-102399-11	920	620	1.48
PW-06	CAP4Q23-PW-06-110623	11/6/2023	320-106773-1	320-106773-5	840	520	1.62
PW-09	CAP3Q23-PW-09-081023	8/10/2023	320-104266-1	320-104266-1	<5 UJ	<5 UJ	--
PW-09	CAP3Q23-PW-09-081023-Z	8/10/2023	320-104266-1	320-104266-2	<5 UJ	<5 UJ	--
PW-09	CAP4Q23-PW-09-110823	11/8/2023	320-106887-1	320-106887-4	<5 UJ	<5 UJ	--
PW-09	CAP4Q23-PW-09-110823-Z	11/8/2023	320-106887-1	320-106887-7	<5 UJ	<5 UJ	--
PZ-22	CAP3Q-PZ-22-071123	7/11/2023	320-102527-1	320-102527-2	76,000	48,000	1.58
PZ-22	CAP4Q23-PZ-22-110223	11/2/2023	320-106772-1	320-106772-4	84,000	51,000	1.65
River Water Intake 2	RIVER-WATER-INTAKE2-072623	7/26/2023	320-103013-1	320-103013-5	1,100	680	1.62
River Water Intake 2	RIVER-WATER-INTAKE2-24-072823	7/28/2023	320-103199-1	320-103199-3	210	130	1.62
River Water Intake 2	RIVER-WATER-INTAKE2-24-112323	11/23/2023	320-107480-1	320-107480-5	1,800	1,200	1.50
SEEP-A-EFF	CAP3Q23-SEEP-A-EFF-24-072723	7/27/2023	320-103013-2	320-103013-1	3,700 J	2,300 J	1.61
SEEP-B-EFF	CAP3Q23-SEEP-B-EFF-24-072723	7/27/2023	320-103013-2	320-103013-2	1,700 J	1,100 J	1.55
SEEP-C	CAP4Q23-SEEP-C-112323	11/23/2023	320-107480-1	320-107480-4	22	14	1.57
SEEP-C-EFF	CAP3Q23-SEEP-C-EFF-24-072723	7/27/2023	320-103013-2	320-103013-3	330 J	200 J	1.65
SEEP-D-EFF	CAP3Q23-SEEP-D-EFF-24-072723	7/27/2023	320-103013-1	320-103013-4	370	240	1.54
SMW-10	CAP3Q23-SMW-10-071723	7/17/2023	320-102716-1	320-102716-9	210	130	1.62
SMW-10	CAP4Q23-SMW-10-111623	11/16/2023	320-107233-1	320-107233-5	230	160	1.44
SMW-11	CAP3Q23-SMW-11-071723	7/17/2023	320-102716-1	320-102716-11	4,500	3,000	1.50
SMW-11	CAP4Q23-SMW-11-110723	11/7/2023	320-106887-1	320-106887-3	6,100	3,800	1.61
SMW-12	CAP3Q23-SMW-12-071823	7/18/2023	320-102688-1	320-102688-5	5,900	3,900	1.51
SMW-12	CAP4Q23-SMW-12-110823	11/8/2023	320-107233-1	320-107233-4	7,000	4,600	1.52
WC-1	CAP3Q23-WC-1-24-072723	7/27/2023	320-103016-1	320-103016-1	770	500	1.54
WC-1	CAP4Q23-WC-1-112323	11/23/2023	320-107480-1	320-107480-1	250	170	1.47
WC-1	CAP4Q23-WC-1-112323-D	11/23/2023	320-107480-1	320-107480-7	330	210	1.57

Notes:

* PFPrA concentrations were revised following the discovery of a calculation error by the analytical laboratory

-- - revised and/or original concentration is non-detect; factor not calculated

J - analyte detected; reported value may not be accurate or precise

ng/L - nanograms per liter

PFPrA - perfluoropropanoic acid

UJ - analyte not detected; reporting limit may not be accurate or precise

< - analyte not detected above associated reporting limit

Appendix F

Letter to NCDEQ on Updated PFPrA Calculation Discussion

June 18, 2024

Updated PFPrA Calculation Discussion and Table of Previously Reported Results Along with Revised, Corrected Results, Chemours Fayetteville Works, Fayetteville, NC

Perfluoropropanoic acid (PFPrA) is a Table 3+ compound that was added to the Fayetteville Works commercial analytical suite in June 2023. It is considered an “early eluter” because it is a small compound (with a three-carbon backbone) that is not retained well on chromatographic columns and is subject to interferences from the sample matrix, which makes it difficult to analyze. Analytical improvements such as better sample cleanup using solid-phase extraction cartridges have made it possible for PFPrA to be analyzed by commercial analytical laboratories Method 537Mod Max.

Certified PFPrA standards did not become available until July 2023. Prior to July 2023, commercial analytical laboratories were creating their own PFPrA standards from neat liquid PFPrA. It should be noted that when commercially prepared dilutions of PFPrA were first offered as certified solutions in July 2023, it was unclear if the solutions were correctly preserved to prevent esterification (short-chain fluorinated acids were believed to be prone to conversion to the methyl ester when prepared as methanolic solutions). One of Chemours’ commercial analytical laboratories, Eurofins-Sacramento, conducted an internal comparative investigation in Q1 2024 to assess the validity of commercial standards. PFPrA standards were purchased from 3 vendors and compared to a standard correctly prepared at Eurofins- Sacramento. The comparative investigation indicated that the commercial standards were acceptable, and their use has now been implemented.

On April 23, 2024, Eurofins-Sacramento, informed Chemours via email that a calculation error had been incorporated into the preparation of calibration standards for PFPrA under the laboratory’s 537 Mod Max methodology. This error occurred when PFPrA standard solutions prepared at Eurofins-Sacramento did not correctly incorporate the density of neat liquid PFPrA when adding a known volume of neat liquid PFPrA to water, resulting in the incorrect calculation of the concentration of the standards. The density of PFPrA was assumed to be 1.0 grams per milliliter (g/ml), but the true density of liquid PFPrA is 1.56 g/ml. The neat liquid PFPrA was purchased from Sigma-Aldrich and was 97% pure (see Attachment 1 for Certificate of Analysis). This level of purity is acceptable under Eurofins-Sacramento’s Standard Operating Procedure, and is slightly purer than the purity of 96% allowed when making standards under EPA Method 537, from which Eurofins-Sacramento derives its Method 537 Mod Max.

For example, a standard solution created by adding 1.0 milliliters of PFPrA liquid to 1.0 liters of water was incorrectly determined to have a PFPrA concentration of 1.0 grams per liter (1.0 g/L), and the correct PFPrA concentration was 1.56 g/L.

The error resulted in a 36% low bias ($36\% = 100 \times [1.56 - 1.0] / 1.56$) in PFPrA concentrations reported for approximately 550 Chemours samples collected at and in the vicinity of the Fayetteville Works Site and reported between June 2023 and April 2024. Eurofins-Sacramento is now using the newly available commercially available certified standards to prepare calibration curves for PFPrA. Consequently, this error will not be repeated in the future. Chemours informed the North Carolina Department of Environmental Quality (NCDEQ) of the PFPrA calculation error via telephone on May 15, 2024, and provided NCDEQ with Eurofins-Sacramento's memo describing their root cause analysis of the PFPrA calculation error on May 22, 2024 (Attachment 2). PFPrA results that were incorrectly calculated have been corrected by Eurofins-Sacramento and revised PFPrA results have been provided to Chemours (Table 1).

Due to the requirement for fully defensible Level 4 data for PFPrA, the existing PFPrA results were not simply multiplied by 1.56 to correct for the low bias, but rather the laboratory generated the revised PFPrA data through their laboratory information management system (LIMS). Once reported, the original quantitative data becomes a permanent record in the LIMS, which necessitates regenerating the quantitative data in order to incorporate a fundamental change in the calculation basis, such as updated concentrations of calibration standards, and reporting of revised results. Re-generation of quantitative data includes re-integration of all analyte responses as well as generation of new calibration response factors and associated calculations of analyte concentrations. Note that this is a necessary process for many commercial analytical laboratories when regeneration of results from raw data is required.

Re-integrating chromatographic peaks in both standards and samples may yield different integrated areas than were originally generated. The different integrated areas in turn yield different concentrations than expected. A change in concentration due to re-integration can occur with either automated or manual re-integration but is more likely to occur with manual re-integration because manual integrations are more subjective than automated integrations. In the current case, the revised PFPrA concentrations were expected to increase by a factor of 1.56, but this was not always observed (Table 1). When the PFPrA (or the associated isotope dilution analyte (IDA)) concentration is low or is impacted by chromatographic interferences, small changes in integrations may have a significant effect on the results, as described below:

- Samples that contain very small amounts of PFPrA (i.e., the signal-to-noise ratio is large) - small changes in integration of the PFPrA results in changes to the revised PFPrA concentration that vary from the factor of 1.56;
- Samples with low IDA response due to extract dilutions necessitated by high target analyte concentrations - small changes in integration of the IDA results in changes to the revised PFPrA concentration that vary from the factor of 1.56. Chemours maintains an inventory of dilutions required for specific sampling locations, so when these locations are sampled in the future the expected concentrations can be addressed without adverse impacts on the IDA response; and
- Samples with significant effects from the matrix - the presence of chromatographic interferences means that the signal-to-noise ratio is large, whether or not the PFPrA or IDA

concentrations are small (although matrix effects tend to be more significant at lower PFPrA or IDA concentrations), which makes integration of the PFPrA and/or the IDA more variable.

Consequently, each revised PFPrA concentration may not show an increase of exactly 1.56 over the original concentration (in a few cases, the revised PFPrA concentration is actually lower than the initial PFPrA concentration). However, the revised PFPrA concentrations increased by an average factor of 1.57 over the original concentrations, which is close to the expected increase of 1.56. The range in the factor was 0.81 to 2.56, with a standard deviation of 0.14. Ninety-two percent of the factors fall within one standard deviation of the average (i.e., 92 % of the factors are between 1.43 and 1.71).

For upcoming Q1 2024 reports due on June 30, 2024, the PFPrA results will be corrected before they are submitted to NCDEQ. These reports will also include an appendix that provides corrected PFPrA results for samples collected between June 2023 to December 2023 that were previously submitted to NCDEQ. Revised lab reports for these 2023 samples will be uploaded to the shared OneDrive folder at the same time as the lab reports associated with the Q1 2024 reports.

Chemours is committed to producing good quality analytical data and will continue to work with its commercial analytical laboratories to monitor analytical data quality, implement improvements to analytical methods and communicate with NCDEQ regarding analytical issues.

Enclosures

Table 1 - Revised and Original PFPrA Concentrations

Attachment 1 – Sigma Aldrich Certificate of Analysis for Pentafluoropropionic Acid

Attachment 2 - RE: Investigation and Corrective Action for PFPrA Error

TABLE 1
REVISED AND ORIGINAL PFPRA CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Sampling Program	Sample ID	Sample Date	Sample Delivery Group	Laboratory Sample ID	PFPRA Concentration (ng/L)		Factor (revised concentration / original concentration)
					Revised Concentration*	Original Concentration	
2023 Perched Zone Sampling	FAY-D-EB-092023	20-Sep-23	320-105128-1	320-105128-1	<5	<5	--
2023 Perched Zone Sampling	FAY-D-EB-122023	20-Dec-23	320-108308-1	320-108308-1	<5	<5	--
2023 Perched Zone Sampling	FAY-D-MW-24-092023	20-Sep-23	320-105128-1	320-105128-5	300,000	200,000	1.50
2023 Perched Zone Sampling	FAY-D-MW-24-122023	20-Dec-23	320-108308-1	320-108308-5	150,000 J	170,000 J	0.88
2023 Perched Zone Sampling	FAY-D-NAF-03-092023	20-Sep-23	320-105128-1	320-105128-4	360,000	220,000	1.64
2023 Perched Zone Sampling	FAY-D-NAF-03-122023	20-Dec-23	320-108308-1	320-108308-3	320,000 J	370,000 J	0.86
2023 Perched Zone Sampling	FAY-D-NAF-03-122023-D	20-Dec-23	320-108308-1	320-108308-4	250,000 J	220,000 J	1.14
2023 Perched Zone Sampling	FAY-D-NAF-12-092023	20-Sep-23	320-105128-1	320-105128-2	150,000	93,000	1.61
2023 Perched Zone Sampling	FAY-D-NAF-12-092023-D	20-Sep-23	320-105128-1	320-105128-3	190,000	120,000	1.58
2023 Perched Zone Sampling	FAY-D-NAF-12-122023	20-Dec-23	320-108308-1	320-108308-2	350,000 J	430,000 J	0.81
CAP GW Sampling 3Q23	CAP3Q23-BCA-04-072023	20-Jul-23	320-102901-1	320-102901-5	79	51	1.55
CAP GW Sampling 3Q23	CAP3Q23-MW-17D-072023	20-Jul-23	320-102901-1	320-102901-6	1,400	900	1.56
CAP GW Sampling 3Q23	CAP3Q23-NAF-01-072123	21-Jul-23	320-102898-1	320-102898-1	350,000	220,000	1.59
CAP GW Sampling 3Q23	CAP3Q23-NAF-02-072023	20-Jul-23	320-102901-1	320-102901-9	1,100,000	660,000	1.67
CAP GW Sampling 3Q23	CAP3Q23-NAF-03-072023	20-Jul-23	320-102901-1	320-102901-10	58,000 J	37,000 J	1.57
CAP GW Sampling 3Q23	CAP3Q23-NAF-09-072023	20-Jul-23	320-102901-1	320-102901-1	67,000	42,000	1.60
CAP GW Sampling 3Q23	CAP3Q23-NAF-10-072023	20-Jul-23	320-102901-1	320-102901-2	4,900	3,100	1.58
CAP GW Sampling 3Q23	CAP3Q23-OW-55-072523	25-Jul-23	320-102898-1	320-102898-7	2,900	1,800	1.61
CAP GW Sampling 3Q23	CAP3Q23-PIW-12-072423	24-Jul-23	320-102898-1	320-102898-5	2,800	1,700	1.65
CAP GW Sampling 3Q23	CAP3Q23-PIW-13-072423	24-Jul-23	320-102898-1	320-102898-6	4,600	2,800	1.64
CAP GW Sampling 3Q23	CAP3Q23-PIW-14-072423	24-Jul-23	320-102898-1	320-102898-4	6,700	4,300	1.56
CAP GW Sampling 3Q23	CAP3Q23-PIW-15-072523	25-Jul-23	320-102898-1	320-102898-8	14,000	9,000	1.56
CAP GW Sampling 3Q23	CAP3Q23-PIW-2D-072023	20-Jul-23	320-102901-1	320-102901-7	18,000	12,000	1.50
CAP GW Sampling 3Q23	CAP3Q23-PW-05-072023	20-Jul-23	320-102901-1	320-102901-4	1,100	790	1.39
CAP GW Sampling 3Q23	CAP3Q23-PZ-13-072023	20-Jul-23	320-102901-1	320-102901-3	51,000	33,000	1.55
CAP GW Sampling 3Q23	CAP3Q23-PZ-14-072123	21-Jul-23	320-102898-1	320-102898-2	13,000	7,900	1.65
CAP GW Sampling 3Q23	CAP3Q23-SMW-04B-072023	20-Jul-23	320-102901-1	320-102901-8	3,800	2,400	1.58
CAP GW Sampling 3Q23	CAP3Q23-SMW-05PR-072123	21-Jul-23	320-102898-1	320-102898-3	23,000	15,000	1.53
CAP GW Sampling 4Q23	CAP4Q23-BLADEN-1DR-010424	04-Jan-24	320-108551-1	320-108551-1	200	130	1.54
CAP GW Sampling 4Q23	CAP4Q23-EQBLK-DV-110823	08-Nov-23	320-106887-1	320-106887-6	<5	<5	--
CAP GW Sampling 4Q23	CAP4Q23-EQBLK-DV-110823-Z	08-Nov-23	320-106887-1	320-106887-5	<5	<5	--
CAP GW Sampling 4Q23	CAP4Q23-EQBLK-PP-010424	04-Jan-24	320-108551-1	320-108551-2	<5	<5	--
CAP GW Sampling 4Q23	CAP4Q23-EQBLK-PP-110823	08-Nov-23	320-106887-1	320-106887-9	<5	<5	--
CAP GW Sampling 4Q23	CAP4Q23-EQBLK-PP-110823-Z	08-Nov-23	320-106887-1	320-106887-8	<5	<5	--
CAP GW Sampling 4Q23	CAP4Q23-LTW-01-110323	03-Nov-23	320-106773-1	320-106773-1	24,000	14,000	1.71
CAP GW Sampling 4Q23	CAP4Q23-LTW-02-110323	03-Nov-23	320-106772-1	320-106772-7	21,000	13,000	1.62
CAP GW Sampling 4Q23	CAP4Q23-LTW-04-110223	02-Nov-23	320-106772-1	320-106772-5	48,000	30,000	1.60
CAP GW Sampling 4Q23	CAP4Q23-LTW-05-110223	02-Nov-23	320-106772-1	320-106772-1	120,000	68,000	1.76
CAP GW Sampling 4Q23	CAP4Q23-OW-28-110223	02-Nov-23	320-106772-1	320-106772-6	5,500	3,500	1.57
CAP GW Sampling 4Q23	CAP4Q23-OW-33-110223	02-Nov-23	320-106773-1	320-106773-3	9,400	6,000	1.57
CAP GW Sampling 4Q23	CAP4Q23-OW-33-110223-D	02-Nov-23	320-106773-1	320-106773-4	9,000	5,900	1.53
CAP GW Sampling 4Q23	CAP4Q23-PIW-1D-110723	07-Nov-23	320-106887-1	320-106887-1	12,000	7,500	1.60
CAP GW Sampling 4Q23	CAP4Q23-PIW-1D-110723-Z	07-Nov-23	320-106887-1	320-106887-2	12,000	7,700	1.56
CAP GW Sampling 4Q23	CAP4Q23-PIW-3D-110323	03-Nov-23	320-106773-1	320-106773-2	21,000	13,000	1.62
CAP GW Sampling 4Q23	CAP4Q23-PIW-7D-110223	02-Nov-23	320-106772-1	320-106772-3	86,000	52,000	1.65
CAP GW Sampling 4Q23	CAP4Q23-PIW-7S-110223	02-Nov-23	320-106772-1	320-106772-2	18,000	12,000	1.50
CAP GW Sampling 4Q23	CAP4Q23-PW-06-110623	06-Nov-23	320-106773-1	320-106773-5	840	520	1.62
CAP GW Sampling 4Q23	CAP4Q23-PW-09-110823	08-Nov-23	320-106887-1	320-106887-4	<5 UJ	<5 UJ	--
CAP GW Sampling 4Q23	CAP4Q23-PW-09-110823-Z	08-Nov-23	320-106887-1	320-106887-7	<5 UJ	<5 UJ	--
CAP GW Sampling 4Q23	CAP4Q23-PZ-22-110223	02-Nov-23	320-106772-1	320-106772-4	84,000	51,000	1.65
CAP GW Sampling 4Q23	CAP4Q23-SMW-11-110723	07-Nov-23	320-106887-1	320-106887-3	6,100	3,800	1.61
CAP MW Sampling 3Q23	CAP3Q23-BCA-01-070723	07-Jul-23	320-102399-1	320-102399-1	34,000	18,000	1.89
CAP MW Sampling 3Q23	CAP3Q23-BCA-02-070723	07-Jul-23	320-102399-1	320-102399-2	13,000	7,300	1.78
CAP MW Sampling 3Q23	CAP3Q23-BCA-03R-071123	11-Jul-23	320-102509-1	320-102509-9	110,000 J	69,000 J	1.59
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-1DR-071223	12-Jul-23	320-102527-1	320-102527-9	240	160	1.50
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-2D-080223	02-Aug-23	320-103526-1	320-103526-3	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-2S-080123	01-Aug-23	320-103526-1	320-103526-2	77	48	1.60
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-3D-082323	23-Aug-23	320-104207-1	320-104207-1	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-3S-082223	22-Aug-23	320-104225-1	320-104225-5	80	49	1.63
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-4D-082323	23-Aug-23	320-104207-1	320-104207-2	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-4S-082323	23-Aug-23	320-104225-1	320-104225-7	16	10	1.60
CAP MW Sampling 3Q23	CAP3Q23-BLADEN-4S-082323-Z	23-Aug-23	320-104225-1	320-104225-8	16	9.9	1.62
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-1D-072823	28-Jul-23	320-103202-1	320-103202-2	39	24	1.63
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-1S-072723	27-Jul-23	320-103202-1	320-103202-1	37	23	1.61
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-2D-072823	28-Jul-23	320-103202-1	320-103202-4	5.7 B	<5	--
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-2S-072823	28-Jul-23	320-103202-1	320-103202-3	39	23	1.70
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-3D-082223	22-Aug-23	320-104207-1	320-104207-4	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-3S-082223	22-Aug-23	320-104207-1	320-104207-6	27	17	1.59
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-4D-082223	22-Aug-23	320-104225-1	320-104225-4	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-4S-082223	22-Aug-23	320-104225-1	320-104225-6	96	62	1.55
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-5DR-082423	24-Aug-23	320-104225-1	320-104225-3	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-CUMBERLAND-5S-082423	24-Aug-23	320-104225-1	320-104225-10	22	13	1.69
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-BAILER-102423	24-Oct-23	320-106378-1	320-106378-1	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-BAILER-102423-Z	24-Oct-23	320-106378-1	320-106378-2	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-BP-071123	11-Jul-23	320-102509-1	320-102509-10	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-DV-071223	12-Jul-23	320-102509-1	320-102509-11	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-DV-081623	16-Aug-23	320-104043-1	320-104043-6	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-FILTER-071423	14-Jul-23	320-102718-1	320-102718-11	<5	<5	--

TABLE 1
REVISED AND ORIGINAL PFPA CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Sampling Program	Sample ID	Sample Date	Sample Delivery Group	Laboratory Sample ID	PFPA Concentration (ng/L)		Factor (revised concentration / original concentration)
					Revised Concentration*	Original Concentration	
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-PP-071223	12-Jul-23	320-102527-1	320-102527-10	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-PP-071723	17-Jul-23	320-102718-1	320-102718-10	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-PP-080423	04-Aug-23	320-104043-1	320-104043-4	<5 UJ	<5 UJ	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-PP-081823	18-Aug-23	320-104043-1	320-104043-5	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-PP-102423	24-Oct-23	320-106378-1	320-106378-3	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-EQBLK-PP-102423-Z	24-Oct-23	320-106378-1	320-106378-4	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-FTA-01-071923	19-Jul-23	320-102791-1	320-102791-1	280	180	1.56
CAP MW Sampling 3Q23	CAP3Q23-FTA-02-071923	19-Jul-23	320-102791-1	320-102791-2	21,000	14,000	1.50
CAP MW Sampling 3Q23	CAP3Q23-FTA-02-071923-D	19-Jul-23	320-102791-1	320-102791-3	21,000	13,000	1.62
CAP MW Sampling 3Q23	CAP3Q23-FTA-03-071923	19-Jul-23	320-102791-1	320-102791-4	14,000	8,600	1.63
CAP MW Sampling 3Q23	CAP3Q23-INSITU-01-071323	13-Jul-23	320-102712-1	320-102712-8	850	530	1.60
CAP MW Sampling 3Q23	CAP3Q23-LTW-01-071323	13-Jul-23	320-102712-1	320-102712-2	22,000	14,000	1.57
CAP MW Sampling 3Q23	CAP3Q23-LTW-02-071223	12-Jul-23	320-102527-1	320-102527-8	16,000	11,000	1.45
CAP MW Sampling 3Q23	CAP3Q23-LTW-03-071223	12-Jul-23	320-102527-1	320-102527-5	62,000 J	37,000	1.68
CAP MW Sampling 3Q23	CAP3Q23-LTW-04-071123	11-Jul-23	320-102527-1	320-102527-1	53,000	29,000	1.83
CAP MW Sampling 3Q23	CAP3Q23-LTW-05-071123	11-Jul-23	320-102509-1	320-102509-6	83,000 J	52,000 J	1.60
CAP MW Sampling 3Q23	CAP3Q23-MW-24-071823	18-Jul-23	320-102688-1	320-102688-1	240,000	150,000	1.60
CAP MW Sampling 3Q23	CAP3Q23-MW-13D-071023	10-Jul-23	320-102399-1	320-102399-9	61,000 J	39,000 J	1.56
CAP MW Sampling 3Q23	CAP3Q23-MW-14D-071323	13-Jul-23	320-102716-1	320-102716-2	130,000	83,000	1.57
CAP MW Sampling 3Q23	CAP3Q23-MW-15DRR-071123	11-Jul-23	320-102509-1	320-102509-1	8,800	5,300	1.66
CAP MW Sampling 3Q23	CAP3Q23-MW-16D-071223	12-Jul-23	320-102527-1	320-102527-7	1,000	630	1.59
CAP MW Sampling 3Q23	CAP3Q23-MW-18D-071723	17-Jul-23	320-102716-1	320-102716-6	680	430	1.58
CAP MW Sampling 3Q23	CAP3Q23-MW-19D-071023	10-Jul-23	320-102399-1	320-102399-10	960	640	1.50
CAP MW Sampling 3Q23	CAP3Q23-MW-12S-071823	18-Jul-23	320-102688-1	320-102688-2	6,600	4,300	1.53
CAP MW Sampling 3Q23	CAP3Q23-MW-20D-071123	11-Jul-23	320-102509-1	320-102509-7	4,900	3,300	1.48
CAP MW Sampling 3Q23	CAP3Q23-MW-20D-071123-D	11-Jul-23	320-102509-1	320-102509-8	5,300	3,300	1.61
CAP MW Sampling 3Q23	CAP3Q23-MW-21D-071423	14-Jul-23	320-102716-1	320-102716-4	800	500	1.60
CAP MW Sampling 3Q23	CAP3Q23-MW-22D-071223	12-Jul-23	320-102527-1	320-102527-4	970	580	1.67
CAP MW Sampling 3Q23	CAP3Q23-MW-23-071723	17-Jul-23	320-102718-1	320-102718-2	2,500	1,400	1.79
CAP MW Sampling 3Q23	CAP3Q23-MW-1S-071823	18-Jul-23	320-102688-1	320-102688-3	11,000	6,600	1.67
CAP MW Sampling 3Q23	CAP3Q23-MW-25-071823	18-Jul-23	320-102718-1	320-102718-7	10,000	6,700	1.49
CAP MW Sampling 3Q23	CAP3Q23-MW-27-071323	13-Jul-23	320-102712-1	320-102712-7	40,000	26,000	1.54
CAP MW Sampling 3Q23	CAP3Q23-MW-28-071323	13-Jul-23	320-102712-1	320-102712-4	730	460	1.59
CAP MW Sampling 3Q23	CAP3Q23-MW-30-071823	18-Jul-23	320-102718-1	320-102718-5	7,000	4,700	1.49
CAP MW Sampling 3Q23	CAP3Q23-MW-7S-071823	18-Jul-23	320-102718-1	320-102718-6	5,700	3,900	1.46
CAP MW Sampling 3Q23	CAP3Q23-MW-9S-071823	18-Jul-23	320-102718-1	320-102718-9	2,900	1,800	1.61
CAP MW Sampling 3Q23	CAP3Q23-NAF-04-081723	17-Aug-23	320-104207-1	320-104207-7	160,000	100,000	1.60
CAP MW Sampling 3Q23	CAP3Q23-NAF-05A-102423	24-Oct-23	320-106358-1	320-106358-1	240,000	150,000	1.60
CAP MW Sampling 3Q23	CAP3Q23-NAF-05A-102423-D	24-Oct-23	320-106358-1	320-106358-2	240,000	150,000	1.60
CAP MW Sampling 3Q23	CAP3Q23-NAF-05A-102423-D-Z	24-Oct-23	320-106358-1	320-106358-4	240,000	150,000	1.60
CAP MW Sampling 3Q23	CAP3Q23-NAF-05A-102423-Z	24-Oct-23	320-106358-1	320-106358-3	190,000	120,000	1.58
CAP MW Sampling 3Q23	CAP3Q23-NAF-06-071923	19-Jul-23	320-102796-1	320-102796-1	380,000	240,000	1.58
CAP MW Sampling 3Q23	CAP3Q23-NAF-06-071923-Z	19-Jul-23	320-102796-1	320-102796-2	410,000	250,000	1.64
CAP MW Sampling 3Q23	CAP3Q23-NAF-07-071923	19-Jul-23	320-102796-1	320-102796-3	3,600	2,100	1.71
CAP MW Sampling 3Q23	CAP3Q23-NAF-08A-081723	17-Aug-23	320-104225-1	320-104225-2	41,000	26,000	1.58
CAP MW Sampling 3Q23	CAP3Q23-NAF-11A-071923	19-Jul-23	320-102796-1	320-102796-4	15,000	9,400	1.60
CAP MW Sampling 3Q23	CAP3Q23-NAF-12-081723	17-Aug-23	320-104225-1	320-104225-1	200,000	130,000	1.54
CAP MW Sampling 3Q23	CAP3Q23-NAF-13-102423	24-Oct-23	320-106358-1	320-106358-5	10,000	6,600	1.52
CAP MW Sampling 3Q23	CAP3Q23-NAF-13-102423-Z	24-Oct-23	320-106358-1	320-106358-6	10,000	6,600	1.52
CAP MW Sampling 3Q23	CAP3Q23-OW-28-071123	11-Jul-23	320-102509-1	320-102509-5	5,200	3,500	1.49
CAP MW Sampling 3Q23	CAP3Q23-OW-30-071323	13-Jul-23	320-102712-1	320-102712-10	19,000	12,000	1.58
CAP MW Sampling 3Q23	CAP3Q23-OW-30-071323-Z	13-Jul-23	320-102712-1	320-102712-11	19,000	12,000	1.58
CAP MW Sampling 3Q23	CAP3Q23-OW-32-090823	08-Sep-23	320-104780-1	320-104780-1	990	640	1.55
CAP MW Sampling 3Q23	CAP3Q23-OW-32-090823-D	08-Sep-23	320-104780-1	320-104780-2	970	620	1.56
CAP MW Sampling 3Q23	CAP3Q23-OW-32-090823-D-Z	08-Sep-23	320-104780-1	320-104780-4	930	620	1.50
CAP MW Sampling 3Q23	CAP3Q23-OW-32-090823-Z	08-Sep-23	320-104780-1	320-104780-3	1,000	650	1.54
CAP MW Sampling 3Q23	CAP3Q23-OW-33-071223	12-Jul-23	320-102527-1	320-102527-3	9,900	5,400	1.83
CAP MW Sampling 3Q23	CAP3Q23-OW-37-081023	10-Aug-23	320-104266-1	320-104266-3	8,200 J	5,200 J	1.58
CAP MW Sampling 3Q23	CAP3Q23-OW-40-071323	13-Jul-23	320-102712-1	320-102712-9	5,700	3,700	1.54
CAP MW Sampling 3Q23	CAP3Q23-OW-4R-080423	04-Aug-23	320-103526-1	320-103526-7	25,000	17,000	1.47
CAP MW Sampling 3Q23	CAP3Q23-OW-51-080323	03-Aug-23	320-103526-1	320-103526-6	92,000	60,000	1.53
CAP MW Sampling 3Q23	CAP3Q23-OW-56-073123	31-Jul-23	320-103202-1	320-103202-9	2,200	1,400	1.57
CAP MW Sampling 3Q23	CAP3Q23-OW-57-073123	31-Jul-23	320-103202-1	320-103202-10	44,000	28,000	1.57
CAP MW Sampling 3Q23	CAP3Q23-PIW-10DR-071423	14-Jul-23	320-102716-1	320-102716-5	26,000	17,000	1.53
CAP MW Sampling 3Q23	CAP3Q23-PIW-10S-071323	13-Jul-23	320-102712-1	320-102712-5	5,300	3,100	1.71
CAP MW Sampling 3Q23	CAP3Q23-PIW-11-073123	31-Jul-23	320-103202-1	320-103202-8	3,400	2,000	1.70
CAP MW Sampling 3Q23	CAP3Q23-PIW-16D-071423	14-Jul-23	320-102716-1	320-102716-3	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-PIW-16S-071023	10-Jul-23	320-102399-1	320-102399-7	1,100	770	1.43
CAP MW Sampling 3Q23	CAP3Q23-PIW-1D-080223	02-Aug-23	320-103526-1	320-103526-4	12,000 J	7,800	1.54
CAP MW Sampling 3Q23	CAP3Q23-PIW-3D-071323	13-Jul-23	320-102712-1	320-102712-1	19,000	11,000	1.73
CAP MW Sampling 3Q23	CAP3Q23-PIW-4D-071323	13-Jul-23	320-102712-1	320-102712-3	880	550	1.60
CAP MW Sampling 3Q23	CAP3Q23-PIW-5SR-080423	04-Aug-23	320-103526-1	320-103526-8	44,000	29,000	1.52
CAP MW Sampling 3Q23	CAP3Q23-PIW-5SR-080423-Z	04-Aug-23	320-103526-1	320-103526-9	40,000	26,000	1.54
CAP MW Sampling 3Q23	CAP3Q23-PIW-6S-071223	12-Jul-23	320-102527-1	320-102527-6	64,000 J	50,000 J	1.28
CAP MW Sampling 3Q23	CAP3Q23-PIW-7D-071123	11-Jul-23	320-102509-1	320-102509-3	79,000 J	49,000 J	1.61
CAP MW Sampling 3Q23	CAP3Q23-PIW-7S-071123	11-Jul-23	320-102509-1	320-102509-2	14,000	9,700	1.44
CAP MW Sampling 3Q23	CAP3Q23-PIW-8D-071123	11-Jul-23	320-102509-1	320-102509-4	57,000	34,000	1.68
CAP MW Sampling 3Q23	CAP3Q23-PW-01-071723	17-Jul-23	320-102716-1	320-102716-10	48,000	33,000	1.45

TABLE 1
REVISED AND ORIGINAL PFPRA CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Sampling Program	Sample ID	Sample Date	Sample Delivery Group	Laboratory Sample ID	PFPrA Concentration (ng/L)		Factor (revised concentration / original concentration)
					Revised Concentration*	Original Concentration	
CAP MW Sampling 3Q23	CAP3Q23-PW-02-071923	19-Jul-23	320-102796-1	320-102796-5	6,400	4,000	1.60
CAP MW Sampling 3Q23	CAP3Q23-PW-02-071923-Z	19-Jul-23	320-102796-1	320-102796-6	6,600	4,300	1.53
CAP MW Sampling 3Q23	CAP3Q23-PW-03-071923	19-Jul-23	320-102796-1	320-102796-7	76,000	47,000	1.62
CAP MW Sampling 3Q23	CAP3Q23-PW-04-072823	28-Jul-23	320-103202-1	320-103202-5	1,400	900	1.56
CAP MW Sampling 3Q23	CAP3Q23-PW-04-072823-Z	28-Jul-23	320-103202-1	320-103202-6	1,600	890	1.80
CAP MW Sampling 3Q23	CAP3Q23-PW-06-071023	10-Jul-23	320-102399-1	320-102399-11	920	620	1.48
CAP MW Sampling 3Q23	CAP3Q23-PW-09-081023	10-Aug-23	320-104266-1	320-104266-1	<5 UJ	<5 UJ	--
CAP MW Sampling 3Q23	CAP3Q23-PW-09-081023-Z	10-Aug-23	320-104266-1	320-104266-2	<5 UJ	<5 UJ	--
CAP MW Sampling 3Q23	CAP3Q23-PW-10RR-080323	03-Aug-23	320-103526-1	320-103526-5	60,000	39,000	1.54
CAP MW Sampling 3Q23	CAP3Q23-PW-11-070723	07-Jul-23	320-102399-1	320-102399-3	25,000	17,000	1.47
CAP MW Sampling 3Q23	CAP3Q23-PW-12-071723	17-Jul-23	320-102716-1	320-102716-7	22	14	1.57
CAP MW Sampling 3Q23	CAP3Q23-PW-13-071323	13-Jul-23	320-102716-1	320-102716-1	<5	<5	--
CAP MW Sampling 3Q23	CAP3Q23-PW-14-070723	07-Jul-23	320-102399-1	320-102399-4	35,000	24,000	1.46
CAP MW Sampling 3Q23	CAP3Q23-PW-14-070723-D	07-Jul-23	320-102399-1	320-102399-5	36,000	24,000	1.50
CAP MW Sampling 3Q23	CAP3Q23-PW-15R-070723	07-Jul-23	320-102399-1	320-102399-6	91,000 J	58,000 J	1.57
CAP MW Sampling 3Q23	CAP3Q23-PZ-11-071723	17-Jul-23	320-102716-1	320-102716-8	2,700	1,500	1.80
CAP MW Sampling 3Q23	CAP3Q23-PZ-15-071823	18-Jul-23	320-102718-1	320-102718-8	4,500	3,000	1.50
CAP MW Sampling 3Q23	CAP3Q23-PZ-19R-081523	15-Aug-23	320-104207-1	320-104207-3	14,000	8,900	1.57
CAP MW Sampling 3Q23	CAP3Q23-PZ-20R-081523	15-Aug-23	320-104207-1	320-104207-5	13,000	8,200	1.59
CAP MW Sampling 3Q23	CAP3Q23-PZ-21R-081523	15-Aug-23	320-104225-1	320-104225-9	4,700	2,900	1.62
CAP MW Sampling 3Q23	CAP3Q23-PZ-24-071723	17-Jul-23	320-102718-1	320-102718-4	2,900	1,700	1.71
CAP MW Sampling 3Q23	CAP3Q23-PZ-26-071723	17-Jul-23	320-102718-1	320-102718-1	130	91	1.43
CAP MW Sampling 3Q23	CAP3Q23-PZ-27-071323	13-Jul-23	320-102712-1	320-102712-6	350	230	1.52
CAP MW Sampling 3Q23	CAP3Q23-PZ-28-071723	17-Jul-23	320-102718-1	320-102718-3	440	310	1.42
CAP MW Sampling 3Q23	CAP3Q23-PZ-35-082123	21-Aug-23	320-104266-1	320-104266-4	8,700	5,400	1.61
CAP MW Sampling 3Q23	CAP3Q23-PZ-35-082123-D	21-Aug-23	320-104266-1	320-104266-5	8,600	5,400	1.59
CAP MW Sampling 3Q23	CAP3Q23-ROBESON-1D-072823	28-Jul-23	320-103202-1	320-103202-7	23 B	13	1.77
CAP MW Sampling 3Q23	CAP3Q23-ROBESON-1S-080123	01-Aug-23	320-103526-1	320-103526-1	39	26	1.50
CAP MW Sampling 3Q23	CAP3Q23-SMW-01-071023	10-Jul-23	320-102399-1	320-102399-8	610	400	1.53
CAP MW Sampling 3Q23	CAP3Q23-SMW-03B-071923	19-Jul-23	320-102791-1	320-102791-5	150,000	95,000	1.58
CAP MW Sampling 3Q23	CAP3Q23-SMW-06B-081623	16-Aug-23	320-104043-1	320-104043-1	260,000	170,000	1.53
CAP MW Sampling 3Q23	CAP3Q23-SMW-07-071823	18-Jul-23	320-102688-1	320-102688-4	1,000	500	2.00
CAP MW Sampling 3Q23	CAP3Q23-SMW-08B-081623	16-Aug-23	320-104043-1	320-104043-2	31,000	20,000	1.55
CAP MW Sampling 3Q23	CAP3Q23-SMW-08B-081623-D	16-Aug-23	320-104043-1	320-104043-3	31,000	20,000	1.55
CAP MW Sampling 3Q23	CAP3Q23-SMW-09-071923	19-Jul-23	320-102791-1	320-102791-6	4,800	3,100	1.55
CAP MW Sampling 3Q23	CAP3Q23-SMW-10-071723	17-Jul-23	320-102716-1	320-102716-9	210	130	1.62
CAP MW Sampling 3Q23	CAP3Q23-SMW-11-071723	17-Jul-23	320-102716-1	320-102716-11	4,500	3,000	1.50
CAP MW Sampling 3Q23	CAP3Q23-SMW-12-071823	18-Jul-23	320-102688-1	320-102688-5	5,900	3,900	1.51
CAP MW Sampling 3Q23	CAP3Q-PZ-22-071123	11-Jul-23	320-102527-1	320-102527-2	76,000	48,000	1.58
CAP MW Sampling 4Q23	CAP4Q23-EQBLK-BAILER-110923	09-Nov-23	320-107233-1	320-107233-6	<5	<5	--
CAP MW Sampling 4Q23	CAP4Q23-EQBLK-BAILER-110923-Z	09-Nov-23	320-107233-1	320-107233-7	<5	<5	--
CAP MW Sampling 4Q23	CAP4Q23-LTW-03-111323	13-Nov-23	320-107233-1	320-107233-3	61,000 J	38,000 J	1.61
CAP MW Sampling 4Q23	CAP4Q23-PW-04-110923	09-Nov-23	320-107233-1	320-107233-1	1,500	960	1.56
CAP MW Sampling 4Q23	CAP4Q23-PW-04-110923-Z	09-Nov-23	320-107233-1	320-107233-2	1,500	980	1.53
CAP MW Sampling 4Q23	CAP4Q23-SMW-10-111623	16-Nov-23	320-107233-1	320-107233-5	230	160	1.44
CAP MW Sampling 4Q23	CAP4Q23-SMW-12-110823	08-Nov-23	320-107233-1	320-107233-4	7,000	4,600	1.52
CAP SW Sampling 3Q23	CAP3Q23-CFR-BLADEN-072623	26-Jul-23	320-103017-1	320-103017-5	44	26	1.69
CAP SW Sampling 3Q23	CAP3Q23-CFR-KINGS-080123	01-Aug-23	320-103199-1	320-103199-2	32	21	1.52
CAP SW Sampling 3Q23	CAP3Q23-CFR-RM-76-072623	26-Jul-23	320-103017-1	320-103017-1	27	17	1.59
CAP SW Sampling 3Q23	CAP3Q23-CFR-TARHEEL-072723	27-Jul-23	320-103017-1	320-103017-6	44	26	1.69
CAP SW Sampling 3Q23	CAP3Q23-CFR-TARHEEL-6-072723	27-Jul-23	320-103199-1	320-103199-1	32	20	1.60
CAP SW Sampling 3Q23	CAP3Q23-EQBLK-IS-072723	27-Jul-23	320-103017-1	320-103017-7	<5	<5	--
CAP SW Sampling 3Q23	CAP3Q23-EQBLK-PP-072723	27-Jul-23	320-103017-1	320-103017-8	<5	<5	--
CAP SW Sampling 3Q23	CAP3Q23-GBC-1-072623	26-Jul-23	320-103017-1	320-103017-2	540	330	1.64
CAP SW Sampling 3Q23	CAP3Q23-LOCK-DAM-NORTH-072623	26-Jul-23	320-103017-1	320-103017-4	5,500	3,300	1.67
CAP SW Sampling 3Q23	CAP3Q23-LOCK-DAM-SEEP-072623	26-Jul-23	320-103017-1	320-103017-3	22,000	13,000	1.69
CAP SW Sampling 3Q23	CAP3Q23-OLDOF-1-24-072723	27-Jul-23	320-103013-1	320-103013-6	1,400	920	1.52
CAP SW Sampling 3Q23	CAP3Q23-OUTFALL-002-24-072723	27-Jul-23	320-103016-1	320-103016-4	730	460	1.59
CAP SW Sampling 3Q23	CAP3Q23-SEEP-A-EFF-24-072723	27-Jul-23	320-103013-2	320-103013-1	3,700 J	2,300 J	1.61
CAP SW Sampling 3Q23	CAP3Q23-SEEP-B-EFF-24-072723	27-Jul-23	320-103013-2	320-103013-2	1,700 J	1,100 J	1.55
CAP SW Sampling 3Q23	CAP3Q23-SEEP-C-EFF-24-072723	27-Jul-23	320-103013-2	320-103013-3	330 J	200 J	1.65
CAP SW Sampling 3Q23	CAP3Q23-SEEP-D-EFF-24-072723	27-Jul-23	320-103013-1	320-103013-4	370	240	1.54
CAP SW Sampling 3Q23	CAP3Q23-WC-1-24-072723	27-Jul-23	320-103016-1	320-103016-1	770	500	1.54
CAP SW Sampling 3Q23	CAP3Q23-WC-2-24-072723	27-Jul-23	320-103016-1	320-103016-2	570	360	1.58
CAP SW Sampling 3Q23	CAP3Q23-WC-3-24-072723	27-Jul-23	320-103016-1	320-103016-3	280	180	1.56
CAP SW Sampling 3Q23	OUTFALL-002-24-072723-D	27-Jul-23	320-103016-1	320-103016-5	730	480	1.52
CAP SW Sampling 3Q23	RIVER-WATER-INTAKE2-072623	26-Jul-23	320-103013-1	320-103013-5	1,100	680	1.62
CAP SW Sampling 3Q23	RIVER-WATER-INTAKE2-24-072823	28-Jul-23	320-103199-1	320-103199-3	210	130	1.62
CAP SW Sampling 4Q23	CAP4Q23-CFR-BLADEN-120623	06-Dec-23	320-107896-1	320-107896-1	49	31	1.58
CAP SW Sampling 4Q23	CAP4Q23-CFR-KINGS-121423	14-Dec-23	320-108081-1	320-108081-1	44 J	28 J	1.57
CAP SW Sampling 4Q23	CAP4Q23-CFR-RM-76-112223	22-Nov-23	320-107648-1	320-107648-1	20	11	1.82
CAP SW Sampling 4Q23	CAP4Q23-CFR-TARHEEL-120623	06-Dec-23	320-107896-1	320-107896-2	50	32	1.56
CAP SW Sampling 4Q23	CAP4Q23-GBC-1-112223	22-Nov-23	320-107648-1	320-107648-2	680	410	1.66
CAP SW Sampling 4Q23	CAP4Q23-LOCK-DAM-NORTH-112223	22-Nov-23	320-107648-1	320-107648-5	4,800	3,000	1.60
CAP SW Sampling 4Q23	CAP4Q23-LOCK-DAM-SEEP-112223	22-Nov-23	320-107648-1	320-107648-3	9,000 J	5,600 J	1.61
CAP SW Sampling 4Q23	CAP4Q23-LOCK-DAM-SEEP-112223-D	22-Nov-23	320-107648-1	320-107648-4	8,600 J	10,000 J	0.86
CAP SW Sampling 4Q23	CAP4Q23-OLDOF-1-24-112323	23-Nov-23	320-107480-1	320-107480-9	1,600	1,000	1.60
CAP SW Sampling 4Q23	CAP4Q23-OUTFALL-002-112323	23-Nov-23	320-107480-1	320-107480-6	230	150	1.53

TABLE 1
REVISED AND ORIGINAL PFPRA CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Sampling Program	Sample ID	Sample Date	Sample Delivery Group	Laboratory Sample ID	PFPrA Concentration (ng/L)		Factor (revised concentration / original concentration)
					Revised Concentration*	Original Concentration	
CAP SW Sampling 4Q23	CAP4Q23-SEEP-C-112323	23-Nov-23	320-107480-1	320-107480-4	22	14	1.57
CAP SW Sampling 4Q23	CAP4Q23-TARHEEL-24-112423	24-Nov-23	320-107480-1	320-107480-8	37	25	1.48
CAP SW Sampling 4Q23	CAP4Q23-WC-1-112323	23-Nov-23	320-107480-1	320-107480-1	250	170	1.47
CAP SW Sampling 4Q23	CAP4Q23-WC-1-112323-D	23-Nov-23	320-107480-1	320-107480-7	330	210	1.57
CAP SW Sampling 4Q23	CAP4Q23-WC-2-112323	23-Nov-23	320-107480-1	320-107480-2	340 J	220 J	1.55
CAP SW Sampling 4Q23	CAP4Q23-WC-3-112323	23-Nov-23	320-107480-1	320-107480-3	150	96	1.56
CAP SW Sampling 4Q23	RIVER-WATER-INTAKE2-24-112323	23-Nov-23	320-107480-1	320-107480-5	1,800	1,200	1.50
P11 Dry Sampling 11/23	DITrailerOutlet-112823	28-Nov-23	320-107660-1	320-107660-3	<5	<5	--
P11 Dry Sampling 11/23	STW-LOC-16-112823	28-Nov-23	320-107660-1	320-107660-4	150,000	95,000	1.58
P11 Dry Sampling 11/23	STW-LOC-18-4-112823	28-Nov-23	320-107656-1	320-107656-2	43 J	<25 UJ	--
P11 Dry Sampling 11/23	STW-LOC-19A-112823	28-Nov-23	320-107660-1	320-107660-1	46	29	1.59
P11 Dry Sampling 11/23	STW-LOC-19B-112823	28-Nov-23	320-107660-1	320-107660-5	25	16	1.56
P11 Dry Sampling 11/23	STW-LOC-22-4-112823	28-Nov-23	320-107656-1	320-107656-3	250	160	1.56
P11 Dry Sampling 11/23	STW-LOC-22-4-112823-D	28-Nov-23	320-107656-1	320-107656-4	270	170	1.59
P11 Dry Sampling 11/23	STW-LOC-23C-1-4-112823	28-Nov-23	320-107656-1	320-107656-5	170	120	1.42
P11 Dry Sampling 11/23	STW-LOC-23C-2-4-112823	28-Nov-23	320-107656-1	320-107656-6	54	35	1.54
P11 Dry Sampling 11/23	STW-LOC-23C-3-4-112823	28-Nov-23	320-107656-1	320-107656-7	20	13	1.54
P11 Dry Sampling 11/23	STW-LOC-8-4-112823	28-Nov-23	320-107656-1	320-107656-1	870	570	1.53
P11 Dry Sampling 11/23	STW-LOC-9A-112823	28-Nov-23	320-107660-1	320-107660-2	110	69	1.59
P11 Dry Sampling 11/23	STW-LOC-EB-DR-112823	28-Nov-23	320-107660-1	320-107660-6	<5	<5	--
P11 Dry Sampling 11/23	STW-LOC-EB-IS-112823	28-Nov-23	320-107660-1	320-107660-8	<5	<5	--
P11 Dry Sampling 11/23	STW-LOC-FB-112823	28-Nov-23	320-107660-1	320-107660-7	<5	<5	--
P11 Dry Sampling 8/23	STW-LOC-10A-4-080423	04-Aug-23	320-103457-1	320-103457-2	820	540	1.52
P11 Dry Sampling 8/23	STW-LOC-11-3.66-080423	04-Aug-23	320-103457-1	320-103457-3	230	150	1.53
P11 Dry Sampling 8/23	STW-LOC-12-4-080423	04-Aug-23	320-103457-1	320-103457-4	150	95	1.58
P11 Dry Sampling 8/23	STW-LOC-13-4-080423	04-Aug-23	320-103457-1	320-103457-5	110	68	1.62
P11 Dry Sampling 8/23	STW-LOC-1-4-080423	04-Aug-23	320-103460-1	320-103460-1	150	94	1.60
P11 Dry Sampling 8/23	STW-LOC-14-4-080423	04-Aug-23	320-103457-1	320-103457-6	110	66	1.67
P11 Dry Sampling 8/23	STW-LOC-15-4-080423	04-Aug-23	320-103457-1	320-103457-7	930	610	1.52
P11 Dry Sampling 8/23	STW-LOC-16-080723	07-Aug-23	320-103451-1	320-103451-4	1,400,000	490,000	2.86
P11 Dry Sampling 8/23	STW-LOC-18-4-080723	07-Aug-23	320-103461-1	320-103461-6	250	160	1.56
P11 Dry Sampling 8/23	STW-LOC-18-4-080723-D	07-Aug-23	320-103461-1	320-103461-7	250	160	1.56
P11 Dry Sampling 8/23	STW-LOC-19A-080723	07-Aug-23	320-103451-1	320-103451-1	99	64	1.55
P11 Dry Sampling 8/23	STW-LOC-19B-080723	07-Aug-23	320-103451-1	320-103451-2	72	46	1.57
P11 Dry Sampling 8/23	STW-LOC-20-4-080423	04-Aug-23	320-103457-1	320-103457-8	470	310	1.52
P11 Dry Sampling 8/23	STW-LOC-21A-080423	04-Aug-23	320-103457-1	320-103457-9	280	180	1.56
P11 Dry Sampling 8/23	STW-LOC-22-4-080723	07-Aug-23	320-103461-1	320-103461-1	140 J	91 J	1.54
P11 Dry Sampling 8/23	STW-LOC-23C-1-4-080723	07-Aug-23	320-103461-1	320-103461-3	330	200	1.65
P11 Dry Sampling 8/23	STW-LOC-23C-2-2-080723	07-Aug-23	320-103461-1	320-103461-4	70	44	1.59
P11 Dry Sampling 8/23	STW-LOC-23C-3-4-080723	07-Aug-23	320-103461-1	320-103461-5	210	130	1.62
P11 Dry Sampling 8/23	STW-LOC-2-4-080423	04-Aug-23	320-103460-1	320-103460-2	120	80	1.50
P11 Dry Sampling 8/23	STW-LOC-3-4-080423	04-Aug-23	320-103460-1	320-103460-3	330	190	1.74
P11 Dry Sampling 8/23	STW-LOC-4-4-080423	04-Aug-23	320-103460-1	320-103460-4	130	78	1.67
P11 Dry Sampling 8/23	STW-LOC-5-3-080423	04-Aug-23	320-103460-1	320-103460-5	50	26	1.92
P11 Dry Sampling 8/23	STW-LOC-7A-4-080423	04-Aug-23	320-103460-1	320-103460-6	140	91	1.54
P11 Dry Sampling 8/23	STW-LOC-7A-4-080423-D	04-Aug-23	320-103460-1	320-103460-7	150	95	1.58
P11 Dry Sampling 8/23	STW-LOC-7B-4-080423	04-Aug-23	320-103460-1	320-103460-8	170	110	1.55
P11 Dry Sampling 8/23	STW-LOC-7C-4-080423	04-Aug-23	320-103460-1	320-103460-9	180	120	1.50
P11 Dry Sampling 8/23	STW-LOC-8-3-080723	07-Aug-23	320-103461-1	320-103461-2	150	93	1.61
P11 Dry Sampling 8/23	STW-LOC-9-4-080423	04-Aug-23	320-103457-1	320-103457-1	750	490	1.53
P11 Dry Sampling 8/23	STW-LOC-9A-080723	07-Aug-23	320-103451-1	320-103451-3	460	290	1.59
P11 Dry Sampling 8/23	STW-LOC-DITrailerOutlet-080823	08-Aug-23	320-103451-1	320-103451-5	<5	<5	--
P11 Dry Sampling 8/23	STW-LOC-EB-DR-080723	07-Aug-23	320-103451-1	320-103451-9	<5	<5	--
P11 Dry Sampling 8/23	STW-LOC-EB-IS-080423	04-Aug-23	320-103451-1	320-103451-7	<5	<5	--
P11 Dry Sampling 8/23	STW-LOC-EB-IS-080723	07-Aug-23	320-103451-1	320-103451-8	<5	<5	--
P11 Dry Sampling 8/23	STW-LOC-FB-080423	04-Aug-23	320-103451-1	320-103451-6	<5	<5	--
P11 Dry Sampling 8/23	STW-LOC-FB-080723	07-Aug-23	320-103451-1	320-103451-10	<5	<5	--
P11 Full Sampling 11/23	STW-LOC-1-4-112123	21-Nov-23	320-107670-1	320-107670-1	120 J	76	1.58
P11 Full Sampling 11/23	STW-LOC-11-2.66-112223	22-Nov-23	320-107659-1	320-107659-1	220	140	1.57
P11 Full Sampling 11/23	STW-LOC-12-4-112223	22-Nov-23	320-107659-1	320-107659-2	120	74	1.62
P11 Full Sampling 11/23	STW-LOC-13-4-112223	22-Nov-23	320-107659-1	320-107659-3	170	110	1.55
P11 Full Sampling 11/23	STW-LOC-10A-4-112123	21-Nov-23	320-107670-1	320-107670-10	340	210	1.62
P11 Full Sampling 11/23	STW-LOC-14-4-112123	21-Nov-23	320-107659-1	320-107659-4	87	54	1.61
P11 Full Sampling 11/23	STW-LOC-14-4-112123-D	21-Nov-23	320-107659-1	320-107659-5	88	55	1.60
P11 Full Sampling 11/23	STW-LOC-15-4-112123	21-Nov-23	320-107659-1	320-107659-6	340	220	1.55
P11 Full Sampling 11/23	STW-LOC-20-4-112123	21-Nov-23	320-107659-1	320-107659-7	240	150	1.60
P11 Full Sampling 11/23	STW-LOC-21B-112223	22-Nov-23	320-107659-1	320-107659-8	120	72	1.67
P11 Full Sampling 11/23	STW-LOC-EB-IS-112223	22-Nov-23	320-107670-1	320-107670-11	<5	<5	--
P11 Full Sampling 11/23	STW-LOC-2-4-112223	22-Nov-23	320-107670-1	320-107670-2	96	63	1.52
P11 Full Sampling 11/23	STW-LOC-3-3.66-112223	22-Nov-23	320-107670-1	320-107670-3	280	190	1.47
P11 Full Sampling 11/23	STW-LOC-4-4-112223	22-Nov-23	320-107670-1	320-107670-4	73	48	1.50
P11 Full Sampling 11/23	STW-LOC-5-4-112223	22-Nov-23	320-107670-1	320-107670-5	54	36	1.52
P11 Full Sampling 11/23	STW-LOC-7A-4-112123	21-Nov-23	320-107670-1	320-107670-6	130 J	82	1.59
P11 Full Sampling 11/23	STW-LOC-7B-4-112123	21-Nov-23	320-107670-1	320-107670-7	190 J	120	1.58
P11 Full Sampling 11/23	STW-LOC-7C-4-112123	21-Nov-23	320-107670-1	320-107670-8	180 J	110	1.64
P11 Full Sampling 11/23	STW-LOC-9-4-112123	21-Nov-23	320-107670-1	320-107670-9	290	180	1.61
P11 Full Sampling 11/23	STW-LOC-FB-112223	22-Nov-23	320-107659-1	320-107659-9	<5	<5	--
P11 Sampling 9/23	DITrailerOutlet-092523	26-Sep-23	320-105406-1	320-105406-10	<5	<5	--

TABLE 1
REVISED AND ORIGINAL PFPA CONCENTRATIONS
Chemours Fayetteville Works, North Carolina

Sampling Program	Sample ID	Sample Date	Sample Delivery Group	Laboratory Sample ID	PFPA Concentration (ng/L)		Factor (revised concentration / original concentration)
					Revised Concentration*	Original Concentration	
P11 Sampling 9/23	STW-LOC-10A-4-092223	22-Sep-23	320-105437-1	320-105437-2	900	640	1.41
P11 Sampling 9/23	STW-LOC-12-092523	25-Sep-23	320-105437-1	320-105437-3	86	55	1.56
P11 Sampling 9/23	STW-LOC-13-4-092223	22-Sep-23	320-105437-1	320-105437-4	170	110	1.55
P11 Sampling 9/23	STW-LOC-1-4-092623	26-Sep-23	320-105410-1	320-105410-1	110	69	1.59
P11 Sampling 9/23	STW-LOC-14-4-092223	22-Sep-23	320-105437-1	320-105437-5	78	49	1.59
P11 Sampling 9/23	STW-LOC-16-4-092523	25-Sep-23	320-105406-1	320-105406-8	120,000 J	79,000 J	1.52
P11 Sampling 9/23	STW-LOC-18-4-092523	25-Sep-23	320-105406-1	320-105406-2	54	34	1.59
P11 Sampling 9/23	STW-LOC-19B-092523	25-Sep-23	320-105406-1	320-105406-9	46	29	1.59
P11 Sampling 9/23	STW-LOC-20-4-092223	22-Sep-23	320-105437-1	320-105437-6	180	120	1.50
P11 Sampling 9/23	STW-LOC-21B-092523	25-Sep-23	320-105437-1	320-105437-7	290	200	1.45
P11 Sampling 9/23	STW-LOC-22-4-092523	25-Sep-23	320-105406-1	320-105406-3	920 J	560 J	1.64
P11 Sampling 9/23	STW-LOC-23C-1-4-092523	25-Sep-23	320-105406-1	320-105406-4	43	27	1.59
P11 Sampling 9/23	STW-LOC-23C-1-4-092523-D	25-Sep-23	320-105406-1	320-105406-5	40	25	1.60
P11 Sampling 9/23	STW-LOC-23C-2-4-092523	25-Sep-23	320-105406-1	320-105406-6	48	31	1.55
P11 Sampling 9/23	STW-LOC-2-4-092323	23-Sep-23	320-105410-1	320-105410-2	60	38	1.58
P11 Sampling 9/23	STW-LOC-3-4-092323	23-Sep-23	320-105410-1	320-105410-3	150	95	1.58
P11 Sampling 9/23	STW-LOC-4-4-092323	23-Sep-23	320-105410-1	320-105410-4	78	50	1.56
P11 Sampling 9/23	STW-LOC-5-4-092323	23-Sep-23	320-105410-1	320-105410-5	37	24	1.54
P11 Sampling 9/23	STW-LOC-7A-080423	25-Sep-23	320-105410-1	320-105410-6	290	210	1.38
P11 Sampling 9/23	STW-LOC-7B-4-092223	22-Sep-23	320-105410-1	320-105410-7	310	200	1.55
P11 Sampling 9/23	STW-LOC-7B-4-092323-D	22-Sep-23	320-105410-1	320-105410-8	320	210	1.52
P11 Sampling 9/23	STW-LOC-7C-4-092223	22-Sep-23	320-105410-1	320-105410-9	340	230	1.48
P11 Sampling 9/23	STW-LOC-8-4-092523	25-Sep-23	320-105406-1	320-105406-1	1,600	970	1.65
P11 Sampling 9/23	STW-LOC-9-4-092223	22-Sep-23	320-105437-1	320-105437-1	920	650	1.42
P11 Sampling 9/23	STW-LOC-9A-092523	25-Sep-23	320-105406-1	320-105406-7	510	330	1.55
P11 Sampling 9/23	STW-LOC-EB-DR-092523	25-Sep-23	320-105437-1	320-105437-12	<5	<5	--
P11 Sampling 9/23	STW-LOC-EB-IS-092223	22-Sep-23	320-105437-1	320-105437-10	<5	<5	--
P11 Sampling 9/23	STW-LOC-EB-IS-092523	25-Sep-23	320-105437-1	320-105437-11	<5	<5	--
P11 Sampling 9/23	STW-LOC-FB-092223	22-Sep-23	320-105437-1	320-105437-8	<5	<5	--
P11 Sampling 9/23	STW-LOC-FB-092523	25-Sep-23	320-105437-1	320-105437-9	<5	<5	--
Tarheel Sampling	CFR-TARHEEL-121823	18-Dec-23	320-108237-1	320-108237-2	37 J	24 J	1.54
Tarheel Sampling	CFR-TARHEEL-121923	19-Dec-23	320-108237-1	320-108237-3	<5	<5	--
Tarheel Sampling	CFR-TARHEEL-24-100523	05-Oct-23	320-105969-1	320-105969-1	40	26	1.54
Tarheel Sampling	CFR-TARHEEL-24-101023	10-Oct-23	320-105969-1	320-105969-2	40	26	1.54
Tarheel Sampling	CFR-TARHEEL-24-101023-D	10-Oct-23	320-105969-1	320-105969-3	40	27	1.48
Tarheel Sampling	CFR-TARHEEL-24-101223	12-Oct-23	320-106157-1	320-106157-1	38	25	1.52
Tarheel Sampling	CFR-TARHEEL-24-101623	16-Oct-23	320-106157-1	320-106157-2	55	36	1.53
Tarheel Sampling	CFR-TARHEEL-24-101923	19-Oct-23	320-106379-1	320-106379-1	42	26	1.62
Tarheel Sampling	CFR-TARHEEL-24-102323	23-Oct-23	320-106379-1	320-106379-2	41	26	1.58
Tarheel Sampling	CFR-TARHEEL-24-102623	26-Oct-23	320-106734-1	320-106734-1	26	17	1.53
Tarheel Sampling	CFR-TARHEEL-24-103023	30-Oct-23	320-106734-1	320-106734-2	29 J	19 J	1.53
Tarheel Sampling	CFR-TARHEEL-24-110223	02-Nov-23	320-106957-1	320-106957-1	55	34	1.62
Tarheel Sampling	CFR-TARHEEL-24-110623	06-Nov-23	320-106957-1	320-106957-2	35	23	1.52
Tarheel Sampling	CFR-TARHEEL-24-110923	09-Nov-23	320-107164-1	320-107164-1	37	24	1.54
Tarheel Sampling	CFR-TARHEEL-24-111323	13-Nov-23	320-107164-1	320-107164-2	40	27	1.48
Tarheel Sampling	CFR-TARHEEL-24-111323-D	13-Nov-23	320-107164-1	320-107164-3	41	27	1.52
Tarheel Sampling	CFR-TARHEEL-24-111623	16-Nov-23	320-107540-1	320-107540-1	45	30	1.50
Tarheel Sampling	CFR-TARHEEL-24-112023	20-Nov-23	320-107540-1	320-107540-2	65	44	1.48
Tarheel Sampling	CFR-TARHEEL-24-112123	21-Nov-23	320-107540-1	320-107540-3	47	31	1.52
Tarheel Sampling	CFR-TARHEEL-24-112223	22-Nov-23	320-107540-1	320-107540-4	41	27	1.52
Tarheel Sampling	CFR-TARHEEL-24-112723	27-Nov-23	320-107657-1	320-107657-1	52 J	33 J	1.58
Tarheel Sampling	CFR-TARHEEL-24-113023	30-Nov-23	320-107657-1	320-107657-2	50 J	32 J	1.56
Tarheel Sampling	CFR-TARHEEL-24-120423	04-Dec-23	320-107894-1	320-107894-1	50	31	1.61
Tarheel Sampling	CFR-TARHEEL-24-120723	07-Dec-23	320-107894-1	320-107894-2	46	29	1.59
Tarheel Sampling	CFR-TARHEEL-24-121123	11-Dec-23	320-108044-1	320-108044-1	41	26	1.58
Tarheel Sampling	CFR-TARHEEL-24-121223	12-Dec-23	320-108044-1	320-108044-2	38	24	1.58
Tarheel Sampling	CFR-TARHEEL-24-121223-D	12-Dec-23	320-108044-1	320-108044-3	47	30	1.57
Tarheel Sampling	CFR-TARHEEL-24-121723	17-Dec-23	320-108237-1	320-108237-1	24 J	15 J	1.60
Tarheel Sampling	CFR-TARHEEL-24-122523	25-Dec-23	320-108425-1	320-108425-1	15	9.8	1.53
Tarheel Sampling	CFR-TARHEEL-24-122723	27-Dec-23	320-108425-1	320-108425-2	17	11	1.55

Notes:

- * - PFPA concentrations were revised following the discovery of a calculation error by the analytical laboratory
- revised and/or original concentration is non-detect; factor not calculated
- B - analyte detected in associated method blank
- J - analyte detected; reported value may not be accurate or precise
- ng/L - nanograms per liter
- PFPA - perfluoropropanoic acid
- UJ - analyte not detected; reporting limit may not be accurate or precise
- < - analyte not detected above associated reporting limit

Minimum factor = 0.81
Average factor = 1.57
Maximum factor = 2.86
Standard deviation = 0.14



3780325

ID: Propionic Acid_00004

Exp:04/17/23 Prpd: Opn:04/18/24

PENTAFLUOROPROPIONIC ACID

3050 Spruce Street, Saint Louis, MO 63103, USA

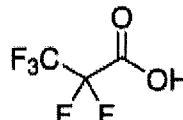
Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Name:

Pentafluoropropionic acid - 97%

Certificate of Analysis

Product Number: 245917
Batch Number: MKCV1747
Brand: ALDRICH
CAS Number: 422-64-0
MDL Number: MFCD00004170
Formula: C3HF5O2
Formula Weight: 164.03 g/mol
Quality Release Date: 06 OCT 2023



Test	Specification	Result
Appearance (Color)	Colorless to Faint Yellow and Colorless to Faint Orange	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Titration with NaOH	96.5 - 103.5 %	99.7 %
GC (area %)	≥ 96.5 %	100.0 %

Larry Coers, Director
 Quality Control
 Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



May 22, 2024

The Chemours Company
1007 Market Street
Wilmington, DE 19801

Attn: Michael Aucoin, Corporate Remediation Group

RE: Investigation and Corrective Action for PFPrA Error

Dear Mr. Aucoin,

It is the policy of Eurofins Sacramento to conduct its business with honesty and integrity, to produce accurate and useable environmental analytical test results and related services, and to provide the best possible service to our clients. As such, we routinely conduct internal data reviews to assess our adherence to method requirements and Quality Assurance protocols. If any issues are noted during these reviews that impact the quality of data, we will notify affected clients and correct the issue.

Eurofins Sacramento recently identified a calculation error that was incorporated into the preparation of calibration standards for target analyte Perfluoropropanoic Acid (PFPrA) under the laboratory's 537M methodology. The calculation error yielded an assigned concentration for calibration standards that was 36% lower than the actual concentration of PFPrA. Use of these standards to quantitate PFPrA in client samples (including Chemours) has imparted a low bias of the same magnitude to results for this analyte reported between May, 2023 and April, 2024.

Root Cause Analysis-

The laboratory conducted a root cause investigation and determined that the incorrect concentration of PFPrA was assigned to calibration standards when the standards preparation chemist did not incorporate the density of the pure liquid PFPrA source material (1.56 g/ml) into the calculated concentration of the initial intermediate dilution prepared from this neat material. The incorrect assigned concentration for the initial dilution of the PFPrA source material was then propagated into all 'daughter' solutions prepared from the initial dilution, including calibration solutions.

The laboratory further concluded that the primary root cause of the lapse was insufficient training of the standards preparation chemist regarding correct preparation of calibration solutions from neat materials.

Corrective Actions-

The laboratory's standards preparation SOP has been updated to specifically emphasize density corrections when preparing intermediate solutions volumetrically from neat source materials, and all standards preparation chemists have been re-trained regarding the content of the updated SOP.

Additionally, the laboratory has secured commercially prepared/vendor-certified solutions of PFPrA for use in the preparation of calibration standards and fortification solutions. Use of the commercial solutions with certified concentrations of PFPrA will preclude the need to dilute neat liquid reference materials in the future, and associated corrections for density will no longer be required. Vendor-certified solutions of PFPrA are now available from several commercial suppliers, which will facilitate the use of these solutions to provide independent 'second-source' verification of calibration standards.

Eurofins Sacramento prides itself on supplying its clients with reliable quality data, and we have applied the utmost diligence to our root cause investigation and corrective actions. We are confident the corrective actions described above and summarized below will prevent recurrence of any similar error. In summary, these corrective actions include the following:

- 1) Updated standards preparation SOP emphasizing correct use of density in standards preparation.
- 2) Additional training of standards preparation chemists.
- 3) Use of vendor-certified solutions as the primary source for calibration standards in lieu of neat liquid PFPrA source materials.
- 4) Use of second-source vendor-certified solutions (alternate supplier) to verify primary standards.

Please do not hesitate to contact us if you have additional questions.

Sincerely,

Eric Redman

Eric Redman
VP of Technical Services
Eurofins Environment Testing Northern California

Cc: Lam Leung (Chemours)
Sathya Yalvigi (Chemours)
Kevin Garon (Chemours)