1 INTRODUCTION AND OBJECTIVE

The objective of this appendix is to summarize the estimation of 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). 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.

- **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 2025 mass loading model assessment, 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 2025).

A total of 35 water samples were collected this quarter, which includes surface water (seep, creeks, Outfall 003 Stream, Outfall 002, and Cape Fear River) and groundwater. The sample collection, field parameters, 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

A total of 13 primary samples and 1 duplicate sample were collected on January 7 to 9, 2025. The three downstream samples along the Cape Fear River (Bladen Bluffs, Tar Heel, and Kings Bluff) were also sampled from January 7 to 13, 2025. Seep A, B, and D effluents were not sampled because the seeps were dry during the sampling event.

2.3 Lock and Dam Seep Sampling

The Lock and Dam Seep and Lock and Dam North were sampled this quarter during the mass loading model sampling program (January 7, 8, 9 and 13, 2024), as shown in the photos below (left: Lock and Dam Seep; right: Lock and Dam North):

2.4 Water Levels and Groundwater Sample Collection

One synoptic water level survey of the onsite groundwater monitoring well network was completed on January 14, 2025 (Table A3). From January 9 to 30, 2025, 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, 2019a). The groundwater field parameters are provided in Table A4.

2.5 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).

3 PFAS ANALYTICAL RESULTS

The analytical results from samples during the Q1 2025 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 2025 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:

- 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, 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.

3.2 Surface Water PFAS Analytical Results

For the surface and seep water samples, two equipment blanks were collected on January 8, 2025. PFAS were not detected above associated reporting limits in these equipment blanks. One field duplicate was collected at Outfall 002 location on January 8, 2025. PFAS results for the primary (CAP1Q25-OUTFALL-002-24-010825) and duplicate sample (OUTFALL-002-24-010825D) had relative percent differences of less than 30% for the reported compounds, except for R-EVE, which is J-qualified due to high relative percent difference.

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 2025 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 the associated reporting limits (upstream sample at CFR MILE 76 on January 7, 2025) to 23 ng/L (downstream sample at CFR-TARHEEL on January 9, 2025).

For the creeks, the Total Table 3+ (17 compounds) concentrations were 1,300 ng/L and 1,400 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,b,c,d; 2025a).

Among the other surface water sampling locations Total Table 3+ (17 compounds) concentrations ranged from 36 ng/L to 78,000 ng/L during this Mass Loading model sampling event, which 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,b,c,d; 2025a). The analytical results for the Seeps

influent and effluent collected for the FTC performance monitoring this quarter are not included in this report but are provided in *CFR Long-Term Remedy Performance Monitoring Report #9 (Q1 2025)* (Geosyntec 2025b).

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-MILE 76 and CFR-BLADEN on January 7, 2025; CFR-TARHEEL on January 8 and 9, 2025; and CFR-KINGS on January 13, 2025).

3.3 Groundwater PFAS Analytical Results

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

- Five 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.
- One field duplicate was collected in Q1 2025 at Bladen-1DR on January 16, 2025. Relative percent differences between the parent (CAP1Q25-BLADEN-1DR-011625) and duplicate sample (CAP1Q25-BLADEN-1DR-011625-D) were less than 30% for the reported compounds.

Individual PFAS and Total PFAS concentrations for the groundwater samples collected in Q1 2025 are summarized in Tables A6 (Table 3+), Attachment Table ATT1-12 (Mod 537), and Figure A4. Total Table 3+ (17 compounds) concentrations ranged from 41 ng/L (PW-09) to 220,000 ng/L (LTW-05). In general, the next highest concentrations 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 2025 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,b,c,d; 2025a).

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 2025 (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 2025 is 0.66 mg/s (Attachment ATT1 Table ATT1-13) and represents the mass discharge estimated downgradient of the remedies (i.e., after the water passes through the remedies, "after remedies"). This mass discharge value 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 2025 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. For the remaining transport pathways, mass discharges have either reduced since the implementation of the remedies, e.g., Willis Creek (as discussed in *CFR Long-Term Remedy Performance Monitoring Report #9 (Q1 2025);* Geosyntec, 2025b), or are within the range of previous values.

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

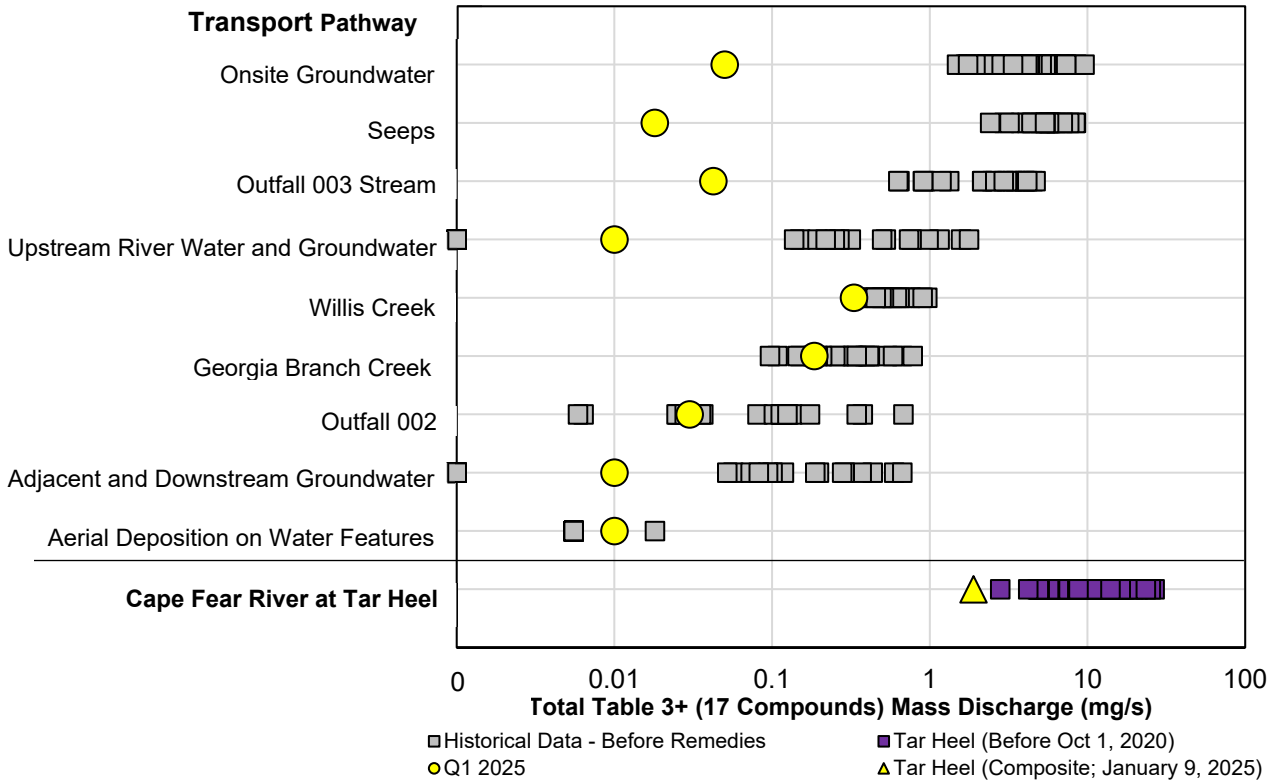
1. The Q1 2025 mass discharges to the Cape Fear River from each pathway are either equivalent to historical levels or significantly lower.
2. The pathways with remedies (Seeps, Outfall 003 Stream, and Onsite Groundwater) all show a significant mass discharge decrease in Q1 2025 compared to historical, pre-remediation ranges.

3. The mass discharge of 0.33 mg/s for Willis Creek and 0.18 mg/s for Georgia Branch Creek were at the lower end of the range of "historical before remedies" mass discharge.
4. The total mass discharge to the Cape Fear River from the Site is much lower in Q1 2025 compared to historical before remedies mass discharges.

Model Transport Pathway	Historical Before Remedies Total Table 3+ (17 Compounds) Mass Discharge (mg/s)[1]			Q1 2025 Total Table 3+ (17 Compounds) Mass Discharge (mg/s)
	Min	Median	Max	
Aerial Deposition	0.01	0.01	0.02	0.006
Upstream River and Groundwater	0	0.27	4.5	0
Willis Creek	0.31	0.57	0.96	0.33
Seeps	3.0	5.4	8.4	0.019
Onsite Groundwater	1.5	3.6	9.6	0.052
Outfall 002	0.006	0.10	0.68	0.031
Georgia Branch Creek	0.10	0.32	0.78	0.18
Outfall 003 Stream	0.63	2.5	4.7	0.042
Offsite Groundwater	0	0.10	1.7	0
Total[2]	**6.7**	**14**	**24**	**0.66**

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.



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 2025, 35 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 2025 is 0.66 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. The implementation of remedies (i.e., Outfall 003 treatment system, Seeps FTCs, and the groundwater extraction and barrier wall remedy) for the three transport pathways (Outfall 003, Seeps and Onsite Groundwater) that historically contributed the bulk of PFAS mass load correspond to a significant mass discharge decrease in Q1 2025 compared to historical, pre-remediation ranges. For the remaining transport pathways, mass discharges have either reduced since the implementation of the remedies, e.g., Willis Creek (as discussed in *CFR Long-Term Remedy Performance Monitoring Report #9 (Q1 2025);* Geosyntec, 2025b), or are within the range of previous values. 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.

REFERENCES

AECOM, 2018. Poly and Perfluoroalkyl Substance Quality Assurance Project Plan for the Chemours Corporate Remediation Group. August 2018.

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

Geosyntec. 2019b. 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.

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. Cape Fear River PFAS Mass Loading Assessment – First Quarter 2024 Report, Chemours Fayetteville Works. June 27, 2024.

Geosyntec. 2024c. Cape Fear River PFAS Mass Loading Assessment – Second Quarter 2024 Report, Chemours Fayetteville Works. September 30, 2024.

Geosyntec. 2024d. Cape Fear River PFAS Mass Loading Assessment – Third Quarter 2024 Report, Chemours Fayetteville Works. December 19, 2024.

Geosyntec. 2025a. Cape Fear River PFAS Mass Loading Assessment – Fourth Quarter 2025 Report, Chemours Fayetteville Works. March 27, 2025.

Geosyntec. 2025b. CFR Long-Term Remedy Performance Monitoring Report #9 (Q1 2025). Chemours Fayetteville Works. June 26, 2025.

USEPA 2009. USEPA Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. January 13, 2009. OSWER No. 9200.1-85. EPA 540-R-08-005

****

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 2025 as reported in Table A5.	Measured flow rates from USGS gauging station at W.O. Huske Dam during January 2025 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 2025 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during January 2025 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 2025 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 2025 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, Lock and Dam Seep, and Lock and Dam North samples collected in January 2025 as reported in Table A5.	Measured flow rates through bucket and time for Lock and Dam Seep and Lock and Dam North during January 2025 as reported in Appendix C. Flow-Through Cell flow data for Seeps A, B, C and D were used as the flumes were decommisioned 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 2025 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during January 2025 as reported in Attachment ATT1.
8	Adjacent and Downstream Groundwater	Estimated using a scaling factor applied to upstream mass discharge. Refer to *Cape Fear River PFAS Mass Loading Calculation Protocol Version 2* (Geosyntec, 2020a) for details.	Estimated using a scaling factor applied to upstream mass discharge. Refer to *Cape Fear River PFAS Mass Loading Calculation Protocol Version 2* (Geosyntec, 2020a) for details.
9	Georgia Branch Creek	Measured from Georgia Branch Creek samples collected in January 2025 as reported in Table A5.	Measured flow rates through Marsh-McBirney method during January 2025 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 2025
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	CAP1Q25-CFR-RM-76-010725	--	1/7/2025 9:18	Grab	0	8.49	12.16	74.5	9.93	1457.00	6.80	USGS Data[4]	2,671
Willis Creek	WC-1	Mouth of Willis Creek	CAP1Q25WC-1-21-010825	--	1/8/2025 4:00	Composite	21	7.79	9.93	225.1	25.00	176.49	7.63	Marsh-McBirney Flow	9.0
Willis Creek	WC-2	Mouth of Willis Creek	CAP1Q25WC-2-16-010725	--	1/7/2025 23:00	Composite	16	8.64	12.50	214.9	21.50	254.18	3.87	Marsh-McBirney Flow	9.0
Willis Creek	WC-3	Mouth of Willis Creek	CAP1Q25WC-3-20-010825	--	1/8/2025 3:00	Composite	20	7.52	10.06	262.2	21.50	210.80	4.44	Marsh-McBirney Flow	9.0
Intake River Water at Facility	INTAKE AT FACILITY	Water Drawn Through the Intake Sampled at the Power Area at the Site	CAP1Q25-RIVER- WATER-INTAKE-18-010925	--	1/9/2025 3:32	Composite	18	8.72	11.80	57.5	28.50	688.48	5.05	Facility DMRs	15.0
Outfall 002	OUTFALL-002	Upstream of Outfall 002 in open channel	CAP1Q25OUTFALL 002-24-010825	--	1/8/2025 8:00	Composite	24	8.34	10.62	189.2	24.00	313.88	9.80	Facility DMRs	28.5
Stormwater Treatment System[3]	STS DISCHARGE	Monomers/IXM Stormwater Treatment System Effluent	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep A	SEEP-A	Effluent Basin of Seep A FTC	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep B	SEEP-B	Effluent Basin of Seep B FTC	--	--	--	--	--	--	--	--	--	--	--	--	--
Seep C	SEEP-C	Effluent Basin of Seep C FTC	CAP1Q25SEEP-C-16-010925	--	1/8/2025 1:06	Composite	16	8.27	6.32	184.2	19.85	282.60	9.31	FTC[5]	0.01
Seep D	SEEP-D	Effluent Basin of Seep D FTC	--	--	--	--	--	--	--	--	--	--	--	--	--
Lock and Dam Seep	LOCK-DAM-SEEP	Southside of the boat ramp at the Lock and Dam Seep	CAP0125-Lock-Dam Seep-010725	--	1/7/2025 10:55	Grab	0	7.52	9.21	109.6	52.00	187.34	3.80	Bottle and Stopwatch	0.0078
Lock and Dam North	LOCK-DAM-NORTH	Northside of the boat ramp at the Lock and Dam Seep	CAP0125-Lock and Dam North-010725	--	1/7/2025 11:15	Grab	0	7.68	7.15	112.8	66.50	119.00	12.10	Bottle and Stopwatch	0.0025
Outfall 003 Stream	OLDOF-1	Mouth of Outfall 003 stream	CAP1Q25-OLDOF-1-8-010725	--	1/7/2025 16:36	Composite	8	8.11	10.54	226.3	14.27	323.49	8.37	Marsh-McBirney Flow	0.83
Georgia Branch Creek	GBC-1	Mouth of Georgia Branch Creek	CAP0125-GBC-1-010725	--	1/7/2025 14:40	Grab	0	4.31	11.41	281.3	11.82	159.90	7.20	Marsh-McBirney Flow	4.7
Tar Heel Ferry Road Bridge	CFR-TARHEEL	Cape Fear River at Tar Heel Ferry Road Bridge	CAP1Q25-CFR-TARHEEL-010825	--	1/8/2025 14:00	Grab	0	8.03	5.84	160.2	22.60	146.67	8.41	USGS Data[6]	2,800
			CAP1Q25-CFR-TARHEEL-24-010925	--	1/9/2025 16:42	Composite	24	7.95	8.34	171.3	22.50	124.52	11.45	USGS Data[6]	2,901
Bladen Bluffs	CFR-BLADEN	Cape Fear River at Bladen Bluffs	CAP1Q25-CFR-BLADEN-010725	--	1/7/2025 15:30	Grab	0	6.74	12.41	214.8	8.46	129.3	6.80	USGS Data[7]	2,730
Kings Bluffs	CFR-KINGS	Cape Fear River at Kings Bluff Raw Water	CAP1Q25-CFR-KINGS-011325	--	1/13/2025 10:48	Grab	0	7.02	11.78	199.3	22.50	245.07	7.10	USGS Data[8]	2,830

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 - The Stormwater Treatment System (SWTS) samples are collected over the typical daily operation period. During the October 2024 sampling event there was no stormwater flow to the stormwater treatment system.
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 decomissioned 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 2025
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	Black Creek Aquifer	BCA-01	01/14/25	399779.96	2050662.48	91-101	146.25	65.89	80.36
Onsite	Black Creek Aquifer	BCA-02	01/14/25	396242.02	2051062.07	92-102	148.37	78.02	70.35
Onsite	Black Creek Aquifer	BCA-03R	01/14/25	398582.23	2049522.22	88-98	150.82	55.42	95.40
Onsite	Black Creek Aquifer	BCA-04	01/14/25	395877.67	2047823.03	94-104	150.31	32.59	117.72
Offsite	Black Creek Aquifer	BLADEN-1DR	01/14/25	387522.25	2050247.40	NM	76.54	19.52	57.02
Offsite	Surficial Aquifer	BLADEN-1S	01/14/25	387518.97	2050233.35	5-10	76.74	10.16	66.58
Offsite	Black Creek Aquifer	BLADEN-2D	01/14/25	368827.09	2042878.34	70-75	138.27	19.41	118.86
Offsite	Surficial Aquifer	BLADEN-2S	01/14/25	368821.46	2042882.92	10-20	138.04	6.09	131.95
Offsite	Black Creek Aquifer	BLADEN-3D	01/14/25	396856.98	2059006.56	33.75-43.75	75.52	9.62	65.90
Offsite	Surficial Aquifer	BLADEN-3S	01/14/25	396862.31	2059012.93	5-15	74.27	8.92	65.35
Offsite	Black Creek Aquifer	BLADEN-4D	01/14/25	363255.12	2087636.87	46.75-51.75	59.66	1.36	58.30
Offsite	Surficial Aquifer	BLADEN-4S	01/14/25	363263.19	2087637.46	4.75-14.75	59.68	6.01	53.67
Offsite	Black Creek Aquifer	CUMBERLAND-1D	01/14/25	431459.95	2011071.39	40-50	174.60	5.70	168.90
Offsite	Surficial Aquifer	CUMBERLAND-1S	01/14/25	431459.95	2011071.39	15-25	174.73	5.55	169.18
Offsite	Black Creek Aquifer	CUMBERLAND-2D	01/14/25	449987.54	2074019.14	47-57	129.23	4.19	125.04
Offsite	Surficial Aquifer	CUMBERLAND-2S	01/14/25	449979.10	2074020.86	7-17	129.06	4.16	124.90
Offsite	Black Creek Aquifer	CUMBERLAND-3D	01/14/25	423248.12	2060409.16	22-27	78.79	8.17	70.62
Offsite	Surficial Aquifer	CUMBERLAND-3S	01/14/25	423254.64	2060413.30	9-14	79.06	8.17	70.89
Offsite	Black Creek Aquifer	CUMBERLAND-4D	01/14/25	413095.77	2078249.95	57-67	119.22	14.56	104.66
Offsite	Surficial Aquifer	CUMBERLAND-4S	01/14/25	413086.63	2078255.53	10-20	119.36	7.44	111.92
Offsite	Black Creek Aquifer	CUMBERLAND-5DR	01/14/25	405619.17	2138238.59	NM	106.67	8.64	98.11
Offsite	Surficial Aquifer	CUMBERLAND-5S	01/14/25	405623.27	2138233.37	14-24	106.65	5.02	101.63
Onsite	Black Creek Aquifer	EW-1	NM	399934.65	2051297.51	40-60	91.33	NM	NM
Onsite	Black Creek Aquifer	EW-2	NM	396164.48	2052232.61	40-65	77.25	NM	NM
Onsite	Black Creek Aquifer	EW-3	NM	395059.78	2052214.66	37-67	76.48	NM	NM
Onsite	Black Creek Aquifer	EW-4	NM	398581.51	2051805.58	53-73	80.64	NM	NM
Onsite	Black Creek Aquifer	EW-5	NM	397200.16	2052052.65	37-67	78.50	NM	NM
Onsite	Perched Zone	FTA-01	01/14/25	397906.09	2049370.01	12.0-22.0	149.60	17.47	132.13
Onsite	Perched Zone	FTA-02	01/14/25	397784.99	2049203.29	11.5-22.0	149.30	18.26	131.04
Onsite	Perched Zone	FTA-03	01/14/25	397766.23	2049310.46	12.0-22.0	150.10	18.12	131.98
Onsite	Surficial Aquifer	INSITU-01	01/14/25	401657.39	2046078.99	7.0-17.0	89.12	6.45	82.67
Onsite	Surficial Aquifer	INSITU-02	NM	401863.46	2049136.62	7.0-17.0	113.12	NM	NM
Onsite	Surficial Aquifer	INSITU-02R	01/14/25	401625.34	2049774.47	5.0 - 25	95.81	26.13	69.68
Onsite	Floodplain Deposits	LTW-01	01/14/25	399565.01	2052150.62	11.0-26.0	52.71	18.27	34.44
Onsite	Black Creek Aquifer	LTW-02	01/14/25	398847.57	2052355.48	28.0-38.0	51.39	12.63	38.76
Onsite	Floodplain Deposits	LTW-03	01/14/25	398114.45	2052558.35	15.0-30.0	51.75	14.99	36.76
Onsite	Floodplain Deposits	LTW-04	01/14/25	397279.61	2052584.95	12.0-27.0	50.66	12.96	37.70
Onsite	Black Creek Aquifer	LTW-05	01/14/25	396430.31	2052740.40	29.0-44.0	50.94	13.58	37.36
Onsite	Perched Zone	MW-11	NM	396544.40	2049051.06	11.5-21.5	148.53	NM	NM
Onsite	Perched Zone	MW-12S	01/14/25	397262.90	2049269.37	17.5-22.5	151.08	20.74	130.34
Onsite	Surficial Aquifer	MW-13D	01/14/25	397119.02	2049821.12	57-67	148.65	48.49	100.16
Onsite	Surficial Aquifer	MW-14D	01/14/25	396974.49	2049074.56	62-72	149.73	44.24	105.49
Onsite	Surficial Aquifer	MW-15DRR	01/14/25	398580.71	2049511.75	52.5-62.5	150.92	52.67	98.25
Onsite	Surficial Aquifer	MW-16D	01/14/25	398493.70	2048402.84	72-82	148.41	40.51	107.90
Onsite	Surficial Aquifer	MW-17D	01/14/25	398401.74	2047366.50	57-67	146.12	33.88	112.24
Onsite	Surficial Aquifer	MW-18D	01/14/25	400947.30	2046574.35	50-60	108.10	23.17	84.93
Onsite	Surficial Aquifer	MW-19D	01/14/25	401151.43	2048272.93	46-56	139.36	55.37	83.99
Onsite	Perched Zone	MW-1S	01/14/25	397080.69	2049117.99	21.0-24.0	148.88	19.46	129.42
Onsite	Surficial Aquifer	MW-20D	01/14/25	400791.01	2048733.71	65-75	137.20	52.14	85.06
Onsite	Surficial Aquifer	MW-21D	01/14/25	399501.88	2047074.92	72-82	151.42	49.18	102.24
Onsite	Surficial Aquifer	MW-22D	01/14/25	398518.40	2048362.48	52-72	149.09	40.40	108.69
Onsite	Perched Zone	MW-23	01/14/25	396237.61	2051063.25	9.5-14.5	148.34	15.15	133.19
Onsite	Perched Zone	MW-24	01/14/25	397303.94	2048767.69	18.8-23.8	150.31	22.20	128.11
Onsite	Perched Zone	MW-25	01/14/25	396753.37	2050989.82	12-17	147.59	14.61	132.98
Onsite	Perched Zone	MW-26	01/14/25	396265.18	2051484.67	5-10	147.70	12.79	134.91
Onsite	Perched Zone	MW-27	01/14/25	396010.33	2051472.00	10-15	146.83	15.21	131.62
Onsite	Perched Zone	MW-28	01/14/25	395719.79	2051165.93	9-14	144.70	14.50	130.20
Onsite	Perched Zone	MW-30	01/14/25	397340.79	2050776.09	10-15	147.67	14.86	132.81
Onsite	Perched Zone	MW-31	NM	396390.70	2049622.88	17-22	147.70	NM	NM
Onsite	Perched Zone	MW-32	NM	396359.58	2049651.79	13-18.5	147.11	NM	NM
Onsite	Perched Zone	MW-33	NM	396337.51	2049678.56	12-17	146.82	NM	NM
Onsite	Perched Zone	MW-34	NM	396352.90	2049619.09	17-22	147.97	NM	NM
Onsite	Perched Zone	MW-35	NM	396332.94	2049631.16	14-19	147.54	NM	NM
Onsite	Perched Zone	MW-36	NM	396320.09	2049651.17	12-17	147.89	NM	NM
Onsite	Perched Zone	MW-7S	01/14/25	397444.52	2049809.73	NM	147.47	11.61	135.86
Onsite	Perched Zone	MW-8S	NM	397096.48	2049867.77	NM	146.48	NM	NM
Onsite	Perched Zone	MW-9S	01/14/25	396760.16	2049734.30	17.5-22.5	154.39	22.08	132.31
Onsite	Perched Zone	NAF-01	01/14/25	398348.58	2050339.68	5.0-15.0	148.65	9.95	138.70
Onsite	Perched Zone	NAF-02	01/14/25	398660.16	2050634.55	5.0-15.0	149.28	8.46	140.82
Onsite	Perched Zone	NAF-03	01/14/25	398578.63	2050743.04	5.0-15.0	149.41	10.60	138.81
Onsite	Perched Zone	NAF-04	01/14/25	398445.89	2050713.13	5.0-15.0	146.77	7.80	138.97
Onsite	Perched Zone	NAF-06	01/14/25	398808.81	2050913.93	2.75-12.75	145.43	11.85	133.58
Onsite	Perched Zone	NAF-07	01/14/25	398898.69	2050618.12	5.5-15.5	149.03	9.90	139.13
Onsite	Perched Zone	NAF-08A	01/14/25	398098.22	2050886.93	5.0-15.0	147.74	9.81	137.93
Onsite	Surficial Aquifer	NAF-08B	01/14/25	398095.97	2050880.18	43.5-53.5	147.83	56.97	90.86
Onsite	Perched Zone	NAF-09	01/14/25	397708.78	2050807.44	7.0-17.0	148.62	12.89	135.73
Onsite	Perched Zone	NAF-10	01/14/25	397611.81	2050425.20	8.25-18.25	149.25	13.40	135.85
Onsite	Perched Zone	NAF-11A	01/14/25	398907.08	2050999.77	2.5-7.5	139.74	7.39	132.35
Onsite	Surficial Aquifer	NAF-11B	01/14/25	398911.13	2050995.88	33.5-43.5	140.74	DRY	DRY
Onsite	Perched Zone	NAF-12	01/14/25	398270.56	2050777.49	18-23	145.79	9.27	136.52
Onsite	Black Creek Aquifer	OW-1	01/14/25	399930.53	2051287.87	40-50	95.01	37.92	57.09
Onsite	Black Creek Aquifer	OW-10	01/14/25	399948.17	2051291.21	40-50	94.39	37.28	57.11
Onsite	Black Creek Aquifer	OW-11	01/14/25	401683.39	2049913.61	74-84	94.92	48.74	46.18
Onsite	Black Creek Aquifer	OW-12	01/14/25	401731.33	2050721.09	50-60	83.65	55.05	28.60
Onsite	Black Creek Aquifer	OW-13	01/14/25	400769.33	2051210.62	50-60	85.12	54.52	30.60
Onsite	Black Creek Aquifer	OW-14	01/14/25	400311.42	2051608.03	46-56	80.67	48.28	32.39
Onsite	Black Creek Aquifer	OW-15	01/14/25	399719.91	2051608.62	34-44	87.86	38.15	49.71
Onsite	Black Creek Aquifer	OW-16	01/14/25	399828.66	2051993.25	15-25	52.94	18.64	34.30
Onsite	Black Creek Aquifer	OW-17	01/14/25	399433.03	2051661.47	58-68	89.67	56.37	33.30
Onsite	Black Creek Aquifer	OW-18	01/14/25	398846.69	2051836.19	45-55	90.88	44.24	46.64

TABLE A3
GROUNDWATER ELEVATIONS - Q1 2025
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	Black Creek Aquifer	OW-19	01/14/25	398067.23	2051976.50	70-80	86.68	53.96	32.72
Onsite	Black Creek Aquifer	OW-2	01/14/25	398572.28	2051801.62	63-73	84.37	50.22	34.15
Onsite	Black Creek Aquifer	OW-20	01/14/25	398229.85	2052080.86	48-58	69.59	31.49	38.10
Onsite	Black Creek Aquifer	OW-21	01/14/25	397521.83	2051950.75	57-67	80.85	47.11	33.74
Onsite	Black Creek Aquifer	OW-22	01/14/25	397325.34	2052218.74	43-53	66.63	28.49	38.14
Onsite	Black Creek Aquifer	OW-23	01/14/25	396776.73	2052355.66	45-55	67.83	29.90	37.93
Onsite	Black Creek Aquifer	OW-24	01/14/25	396677.42	2052158.17	50-60	78.67	46.57	32.10
Onsite	Black Creek Aquifer	OW-25	01/14/25	396182.38	2052428.46	45-55	70.91	33.19	37.72
Onsite	Black Creek Aquifer	OW-26	01/14/25	395503.74	2052268.81	50-60	80.85	39.49	41.36
Onsite	Black Creek Aquifer	OW-27	01/14/25	395555.17	2052622.16	33-43	55.60	16.84	38.76
Onsite	Black Creek Aquifer	OW-28	01/14/25	395570.57	2052838.21	20-30	48.49	9.99	38.50
Onsite	Black Creek Aquifer	OW-29	01/14/25	395193.45	2052143.81	42-52	85.67	41.33	44.34
Onsite	Black Creek Aquifer	OW-3	01/14/25	398601.08	2051812.32	63-73	84.64	50.31	34.33
Onsite[5]	Black Creek Aquifer	OW-30	01/14/25	394988.72	2052537.53	49-59	70.92	32.11	38.81
Onsite	Black Creek Aquifer	OW-31	01/14/25	394812.07	2051595.90	85-95	106.10	66.24	39.86
Onsite[5]	Black Creek Aquifer	OW-33	01/14/25	395116.90	2052806.54	19-29	48.59	9.42	39.17
Onsite	Surficial Aquifer	OW-34	01/14/25	398593.54	2051813.31	23-33	83.76	16.21	67.55
Onsite	Surficial Aquifer	OW-35	01/14/25	398060.78	2051977.75	20-30	87.45	18.43	69.02
Onsite	Surficial Aquifer	OW-36	01/14/25	397257.46	2051997.45	11-21	80.61	17.11	63.50
Onsite	Black Creek Aquifer	OW-38	01/14/25	394885.22	2051883.97	60-70	123.70	59.82	63.88
Onsite	Black Creek Aquifer	OW-4	NM	395049.16	2052210.81	47-57	80.85	NM	NM
Onsite[5]	Black Creek Aquifer	OW-40	01/14/25	394588.05	2052521.39	49-59	72.88	32.72	40.16
Onsite	Black Creek Aquifer	OW-41	01/14/25	401683.74	2050119.92	82-92	93.66	47.75	45.91
Onsite	Black Creek Aquifer	OW-42	01/14/25	401696.05	2050448.24	58-68	87.37	42.39	44.98
Onsite	Black Creek Aquifer	OW-43	01/14/25	400937.73	2051116.17	40-50	76.94	45.39	31.55
Onsite	Black Creek Aquifer	OW-44	01/14/25	399741.48	2051736.45	34-44	73.18	38.15	35.03
Onsite	Black Creek Aquifer	OW-45	01/14/25	398836.07	2051955.99	50-60	77.10	38.19	38.91
Onsite	Black Creek Aquifer	OW-46	01/14/25	398164.94	2052050.69	59-69	72.05	33.96	38.09
Onsite	Black Creek Aquifer	OW-47	01/14/25	397243.89	2052136.32	49-59	71.47	33.58	37.89
Onsite	Black Creek Aquifer	OW-48	01/14/25	396698.39	2052275.93	42-52	69.54	31.71	37.83
Onsite	Black Creek Aquifer	OW-49	01/14/25	396180.56	2052348.51	53-63	79.56	41.85	37.71
Onsite	Black Creek Aquifer	OW-5	NM	395070.03	2052196.97	54-64	81.61	NM	NM
Onsite	Black Creek Aquifer	OW-55	01/14/25	401761.92	2050875.02	43-58	75.45	47.13	28.32
Onsite	Black Creek Aquifer	OW-57	01/14/25	401781.20	2050174.65	33-43	68.87	24.76	44.11
Onsite	Black Creek Aquifer	OW-6	NM	396168.41	2052223.54	50-60	80.53	NM	NM
Onsite	Black Creek Aquifer	OW-7	01/14/25	397180.06	2052052.69	57-67	81.45	48.04	33.41
Onsite	Black Creek Aquifer	OW-8	01/14/25	397202.33	2052041.98	57-67	82.30	49.67	32.63
Onsite	Black Creek Aquifer	OW-9	NM	395075.14	2052211.07	54-64	79.78	NM	NM
Onsite	Black Creek Aquifer	PIW-10DR	01/14/25	395093.99	2052297.30	53-58	75.91	33.89	39.99
Onsite	Surficial Aquifer	PIW-10S	01/14/25	395104.95	2052296.98	7-17	76.32	DRY	DRY
Onsite	Black Creek Aquifer	PIW-11	01/14/25	401911.03	2050416.29	47-57	67.02	23.52	43.50
Onsite	Black Creek Aquifer	PIW-12	01/14/25	401703.10	2051025.77	64-74	83.78	57.53	26.25
Onsite	Black Creek Aquifer	PIW-13	01/14/25	401464.29	2051122.60	54-64	83.18	56.74	26.44
Onsite	Black Creek Aquifer	PIW-14	01/14/25	401163.98	2051186.57	56-66	87.43	58.33	29.10
Onsite	Black Creek Aquifer	PIW-15	01/14/25	400706.51	2051532.80	34-44	67.85	37.15	30.70
Onsite	Black Creek Aquifer	PIW-16D	01/14/25	396257.96	2046587.07	90-100	150.06	24.92	125.14
Onsite	Surficial Aquifer	PIW-16S	01/14/25	396267.84	2046586.09	35-45	149.74	21.09	128.65
Onsite	Black Creek Aquifer	PIW-1D	01/14/25	400548.00	2051801.28	24.5-29.5	52.16	20.75	31.41
Onsite	Floodplain Deposits	PIW-1S	01/14/25	400541.03	2051792.39	7.8-17.8	54.04	21.69	32.35
Onsite	Black Creek Aquifer	PIW-2D	01/14/25	399925.40	2051315.80	40-50	96.19	39.11	57.08
Onsite	Black Creek Aquifer	PIW-3D	01/14/25	399711.25	2052086.94	19-24	53.42	19.09	34.33
Onsite	Black Creek Aquifer	PIW-4D	01/14/25	398816.52	2052101.94	32.3-37.3	52.85	14.11	38.74
Onsite	Surficial Aquifer	PIW-5SR	01/14/25	398545.10	2051977.53	9.8-19.8	79.02	DRY	DRY
Onsite	Floodplain Deposits	PIW-6S	01/14/25	398117.93	2052539.79	18-28	53.40	16.62	36.78
Onsite	Black Creek Aquifer	PIW-7D	01/14/25	396787.77	2052595.65	29-34	48.93	10.96	37.97
Onsite	Floodplain Deposits	PIW-7S	01/14/25	396786.97	2052589.10	7-17	47.97	10.62	37.35
Onsite	Black Creek Aquifer	PIW-8D	01/14/25	396403.37	2052682.10	35.5-40	48.66	11.28	37.38
Onsite	Black Creek Aquifer	PIW-9D	NM	396155.84	2052250.84	40-45	79.64	NM	NM
Onsite	Surficial Aquifer	PIW-9S	NM	396148.52	2052251.03	24.8-29.8	79.64	NM	NM
Onsite	Perched Zone	PW-01	01/14/25	399064.80	2049654.30	11-21	149.55	16.21	133.34
Onsite	Surficial Aquifer	PW-02	01/14/25	399779.06	2050649.47	50-60	146.43	62.71	83.72
Onsite	Surficial Aquifer	PW-03	01/14/25	397339.81	2050765.32	35-45	147.97	43.41	104.56
Onsite	Surficial Aquifer	PW-04	01/14/25	394659.55	2050940.66	17-27	97.75	27.93	69.82
Onsite	Surficial Aquifer	PW-05	01/14/25	395873.10	2047812.93	65-75	150.34	33.72	116.62
Onsite	Surficial Aquifer	PW-06	01/14/25	392868.00	2045288.77	19-29	147.69	20.06	127.63
Onsite	Surficial Aquifer	PW-07	01/14/25	390847.71	2049258.26	28-38	148.16	38.55	109.61
Onsite	Black Creek Aquifer	PW-09	10/07/24	402000.08	2048979.11	44-54	72.93	25.03	47.58
Onsite	Black Creek Aquifer	PW-10RR	01/14/25	398532.45	2051965.91	57-67	79.97	41.54	38.43
Onsite	Black Creek Aquifer	PW-11	01/14/25	394354.36	2052226.72	53-63	73.26	32.66	40.60
Onsite	Black Creek Aquifer	PW-12	01/14/25	399500.45	2047063.51	109-119	150.61	61.51	89.10
Onsite	Black Creek Aquifer	PW-13	01/14/25	397584.26	2048029.18	120-130	149.36	13.56	135.80
Onsite	Black Creek Aquifer	PW-14	01/14/25	397325.65	2050766.36	136-146	147.97	65.77	82.20
Onsite	Black Creek Aquifer	PW-15R	01/14/25	398900.88	2051011.75	110-120	136.14	66.39	69.75
Onsite	Surficial Aquifer	PZ-1	01/14/25	394928.45	2051910.97	28-38	126.65	36.59	90.06
Onsite	Perched Zone	PZ-11	01/14/25	398646.25	2049820.94	15-20	151.03	11.73	139.30
Onsite	Perched Zone	PZ-12	01/14/25	399091.19	2048978.89	15.1-20.1	149.89	DRY	DRY
Onsite	Perched Zone	PZ-13	01/14/25	397707.82	2050985.25	7.1-12.1	148.14	12.17	135.97
Onsite	Perched Zone	PZ-14	01/14/25	397589.92	2050618.27	9.0-14.0	148.38	12.03	136.35
Onsite	Perched Zone	PZ-15	01/14/25	396806.39	2050107.50	10.2-15.2	147.76	14.19	133.57
Onsite	Perched Zone	PZ-17	NM	396614.82	2048872.69	21.1-26.1	150.08	NM	NM
Onsite	Perched Zone	PZ-19R	01/14/25	397998.66	2049919.52	16-21	150.05	14.35	135.70
Onsite	Surficial Aquifer	PZ-2	01/14/25	396631.77	2052167.77	15-25	78.05	13.12	64.93
Onsite	Perched Zone	PZ-20R	01/14/25	398185.81	2049784.60	15-20	151.29	15.66	135.63
Onsite	Perched Zone	PZ-21R	01/14/25	398445.16	2049883.13	17-22	150.67	14.32	136.35
Onsite	Black Creek Aquifer	PZ-22	01/14/25	397271.94	2052585.34	42.5-47.5	50.70	12.82	37.88
Onsite	Perched Zone	PZ-24	01/14/25	396117.94	2050744.07	11-16	147.53	15.19	132.34
Onsite	Perched Zone	PZ-25R	NM	395971.54	2050748.23	NM	147.51	NM	NM
Onsite	Perched Zone	PZ-26	01/14/25	396059.78	2050382.35	11-16	147.70	14.04	133.66
Onsite	Perched Zone	PZ-27	01/14/25	395922.11	2050376.76	12-17	147.17	14.83	132.34
Onsite	Perched Zone	PZ-28	01/14/25	396304.55	2049933.79	13-18	148.64	14.49	134.15

TABLE A3
GROUNDWATER ELEVATIONS - Q1 2025
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-29	NM	396377.59	2049771.59	12-18	147.74	NM	NM
Onsite	Perched Zone	PZ-31	NM	396428.73	2049594.36	14-19	148.00	NM	NM
Onsite	Perched Zone	PZ-32	NM	396418.47	2049713.79	13-18	148.47	NM	NM
Onsite	Perched Zone	PZ-33	NM	396308.92	2049707.66	12.5-17.5	146.72	NM	NM
Onsite	Perched Zone	PZ-34	NM	396292.05	2049595.04	13.5-18.5	147.70	NM	NM
Onsite	Perched Zone	PZ-35	01/14/25	398232.64	2050020.49	13-18	150.43	NM	NM
Onsite	Perched Zone	PZ-36	NM	396086.17	2051331.44	5-8.5	135.20	NM	NM
Onsite	Perched Zone	PZ-37	NM	396042.40	2051050.05	5-8	135.56	NM	NM
Onsite	Perched Zone	PZ-38	NM	395970.01	2050569.66	5-9	137.34	NM	NM
Onsite	Perched Zone	PZ-39	NM	395921.87	2050238.18	5-10	137.93	NM	NM
Onsite	Perched Zone	PZ-40	NM	395943.02	2050031.90	5-9	138.51	NM	NM
Onsite	Perched Zone	PZ-41	01/14/25	395979.29	2050048.97	5-8.5	138.13	3.97	134.16
Onsite	Perched Zone	PZ-42	NM	395961.73	2050230.23	3-7	138.17	NM	NM
Onsite	Perched Zone	PZ-43	NM	396011.61	2050567.89	5-9	137.06	NM	NM
Onsite	Perched Zone	PZ-44	01/14/25	396082.75	2051045.25	5-7	136.26	NM	NM
Onsite	Perched Zone	PZ-45	01/14/25	396124.41	2051323.03	2-4	135.69	NM	NM
Onsite	Surficial Aquifer	PZ-L	01/14/25	396745.80	2048684.01	13-28	147.86	34.03	113.83
Offsite	Black Creek Aquifer	ROBESON-1D	01/14/25	381416.28	2020158.93	42.75-52.75	156.36	14.95	141.41
Offsite	Surficial Aquifer	ROBESON-1S	01/14/25	381408.19	2020156.86	17-27	156.66	13.09	143.57
Onsite	Surficial Aquifer	SMW-01	01/14/25	395297.97	2043688.29	5.0-15.0	150.58	13.46	137.12
Onsite	Perched Zone	SMW-02	01/14/25	399982.23	2050655.91	5.0-20.0	144.59	13.91	130.68
Onsite	Surficial Aquifer	SMW-02B	01/14/25	399983.75	2050654.77	43.0-53.0	147.93	56.01	91.92
Onsite	Perched Zone	SMW-03	NM	399779.32	2049445.32	10.0-20.0	151.09	NM	NM
Onsite	Black Creek Aquifer	SMW-03B	01/14/25	399785.75	2049421.54	72-82	150.43	63.73	86.70
Onsite	Perched Zone	SMW-04A	01/14/25	399668.71	2048387.57	19.5-34.5	148.09	DRY	DRY
Onsite	Surficial Aquifer	SMW-04B	01/14/25	399666.21	2048392.37	43.0-53.0	147.65	50.38	97.27
Onsite	Perched Zone	SMW-05	NM	399334.07	2048557.33	10.0-20.0	148.10	NM	NM
Onsite	Surficial Aquifer	SMW-05PR	01/14/25	399391.46	2049235.07	45.0-60.0	149.66	49.00	98.79
Onsite	Perched Zone	SMW-06	NM	399172.35	2048759.48	12.0-22.0	150.97	NM	NM
Onsite	Surficial Aquifer	SMW-06B	01/14/25	399144.74	2048764.94	58-68	150.32	52.37	97.95
Onsite	Perched Zone	SMW-07	01/14/25	398931.13	2048611.74	13.0-23.0	146.79	19.59	127.20
Onsite	Perched Zone	SMW-08	NM	399064.97	2048468.78	21.0-31.0	151.02	NM	NM
Onsite	Surficial Aquifer	SMW-08B	01/14/25	399058.33	2048478.84	58-68	148.81	45.54	103.27
Onsite	Surficial Aquifer	SMW-09	01/14/25	401076.89	2050017.41	52-62	141.43	60.26	81.17
Onsite	Black Creek Aquifer	SMW-10	01/14/25	402307.31	2047923.84	39-49	76.26	29.67	46.59
Onsite	Surficial Aquifer	SMW-11	01/14/25	401996.15	2048975.38	13-23	71.95	15.62	56.33
Onsite	Black Creek Aquifer	SMW-12	01/14/25	401314.20	2051007.22	88-98	118.22	90.21	28.01

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 AND FIELD PARAMETERS - Q1 2025
Chemours Fayetteville Works, North Carolina

Area	Location ID	Water Bearing Unit[1]	Adjacent Surface Water Feature	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	CAP1Q25-BLADEN-1DR-011625	--	1/6/25 12:10	5.39	0.00	-26.70	8.73	70.00	17.30
				CAP1Q25-BLADEN-1DR-011625-D	Field Duplicate	1/6/25 12:10	5.39	0.00	-26.70	8.73	70.00	17.30
Onsite	LTW-01	Floodplain Deposits	Cape Fear River	CAP1Q25-LTW-01-012825	--	1/28/25 15:30	4.08	1.22	174.90	10.66	87.46	16.34
Onsite	LTW-02	Black Creek Aquifer	Cape Fear River	CAP1Q25-LTW-02-012125	--	1/21/25 12:05	4.39	0.05	54.90	0.58	105.66	15.22
Onsite	LTW-03	Floodplain Deposits	Cape Fear River	CAP1Q25-LTW-03-012925	--	1/29/25 16:10	4.25	0.17	301.30	6.72	106.68	16.77
Onsite	LTW-04	Floodplain Deposits	Cape Fear River	CAP1Q25-LTW-04-012825	--	1/28/25 11:30	5.24	0.20	92.70	17.26	66.92	16.89
Onsite	LTW-05	Black Creek Aquifer	Cape Fear River	CAP1Q25-LTW-05-012725	--	1/27/25 14:00	4.88	0.03	-69.70	13.17	128.30	15.57
Onsite	OW-28	Black Creek Aquifer	Cape Fear River	CAP1Q25-OW-28-010925	--	1/9/25 15:25	4.49	0.07	-90.30	1.38	51.62	14.48
Onsite	OW-33	Black Creek Aquifer	Cape Fear River	CAP1Q25-OW-33-010925	--	1/9/25 13:30	4.40	0.65	253.80	9.50	66.15	14.63
Onsite	PIW-1D	Black Creek Aquifer	Cape Fear River / Willis Creek	CAP1Q25-PIW-1D-012325	--	1/23/25 15:05	3.07	1.01	470.10	12.81	249.03	16.20
Onsite	PIW-1S	Floodplain Deposits	Cape Fear River / Willis Creek	--[2]	--	--	--	--	--	--	--	--
Onsite	PIW-3D	Black Creek Aquifer	Cape Fear River	CAP1Q25-PIW-3D-011625	--	1/16/25 12:00	4.99	0.10	-29.90	1.45	99.32	16.10
Onsite	PIW-7D	Black Creek Aquifer	Cape Fear River	CAP1Q25-PIW-7D-010925	--	1/9/25 14:10	6.03	0.06	-164.80	19.60	104.43	13.48
Onsite	PIW-7S	Floodplain Deposits	Cape Fear River	CAP1Q25-PIW-7S-011525	--	1/15/25 15:35	5.32	0.00	-55.60	4.41	128.90	12.80
Onsite	PW-04	Surficial Aquifer	Outfall 003	CAP1Q25-PW-04-012325	--	1/23/25 15:48	3.44	3.46	429.30	19.29	495.67	15.57
Onsite	PW-06	Surficial Aquifer	Georgia Branch Creek	CAP1Q25-PW-06-012325	--	1/23/25 16:15	3.99	5.80	322.20	3.25	49.62	15.72
Onsite	PW-07	Surficial Aquifer	Georgia Branch Creek	CAP1Q25-PW-07-012025	--	1/20/25 10:00	5.63	9.47	194.40	4.80	282.98	13.48
Onsite	PW-09	Black Creek Aquifer	Willis Creek	CAP1Q25-PW-09-011625	--	1/16/25 13:20	9.94	0.45	-102.80	19.74	133.26	15.76
Onsite	PZ-22	Black Creek Aquifer	Cape Fear River	CAP1Q25-PZ-22-012825	--	1/28/25 13:05	4.43	0.11	56.50	1.92	113.43	16.89
Onsite	SMW-10	Black Creek Aquifer	Willis Creek	CAP1Q25-SMW-10-011525	--	1/15/25 16:15	4.95	0.28	-17.10	3.60	82.48	15.96
Onsite	SMW-11	Surficial Aquifer	Willis Creek	CAP1Q25-SMW-11-011525	--	1/15/25 13:00	4.13	4.26	241.60	4.48	3155.00	12.84
Onsite	SMW-12	Black Creek Aquifer	Willis Creek	CAP1Q25-SMW-12-012425	--	1/24/25 12:05	3.69	1.00	272.30	15.39	168.02	14.00

Notes:
1 - Water Bearing Unit - refers to the primary aquifer unit where the well screen is estimated to be located.
2 - PIW-1S was dry during the Q1 2025 sampling event.
°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	CAP1Q25-CFR-BLADEN-010725	CAP1Q25-CFR-KINGS-011325	CAP1Q25-CFR-RM-76-010725	CAP1Q25-CFR-TARHEEL-010825
Sample Date	1/7/2025	1/13/2025	1/7/2025	1/8/2025
QA/QC				
Sample Delivery Group (SDG)	320-118153-1	320-118272-1	320-118153-1	320-118193-1
Lab Sample ID	320-118153-8	320-118272-1	320-118153-6	320-118193-2
Table 3+ (ng/L)				
HFPO Dimer Acid	<4.0	<4.0	<4.0	<4.0
PFMOAA	**6.2**	**6.8**	<2.0	**6.7**
PFO2HxA	**4.7**	**4.2**	<2.0	**4.5**
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	**5.7**	**5.4**	<2.0	**6.1**
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	**14 J**	**4.1 J**	<2.0	<2.0
Hydrolyzed PSDA	**2.9 J**	**4.5 J**	<2.0	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS, Acid Form	<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	**6.9 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	**15**	**17**	**8.4**	**14**
Perfluoroheptanoic Acid	**2.1**	**2.6**	**2.2**	**2.7**
Total Attachment C[1,2]	**17**	**16**	ND	**17**
Total Table 3+ (17 compounds)[1,2]	**17**	**16**	ND	**17**
Total Table 3+ (18 compounds)[1,3]	**32**	**33**	**8.4**	**31**
Total Table 3+ (21 compounds)[1]	**49**	**49**	**8.4**	**31**

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

Location ID	CFR-TARHEEL	GBC-1	LOCK-DAM NORTH	LOCK-DAM SEEP
Field Sample ID	CAP1Q25-CFR-TARHEEL-24-010925	CAP1Q25-GBC-1-010725	CAP1Q25-LOCK-DAM-NORTH-010725	CAP1Q25-LOCK-DAM-SEEP-010725
Sample Date	1/9/2025	1/7/2025	1/7/2025	1/7/2025
QA/QC				
Sample Delivery Group (SDG)	320-118193-1	320-118153-1	320-118154-1	320-118154-1
Lab Sample ID	320-118193-1	320-118153-7	320-118154-4	320-118154-3
Table 3+ (ng/L)				
HFPO Dimer Acid	**4.9**	**300**	**2,100**	**7,000**
PFMOAA	**7.5**	**55**	**3,200**	**34,000**
PFO2HxA	**5.0**	**270**	**2,700**	**17,000**
PFO3OA	<2.0	**38**	**510**	**9,400**
PFO4DA	<2.0	**21**	**130**	**2,900**
PFO5DA	<2.0	**2.4**	<130	<130
PMPA	**5.5**	**500**	**2,700**	**5,300**
PEPA	<2.0	**150**	**860**	**1,800**
PS Acid	<2.0	<2.0	<63	<63
Hydro-PS Acid	<2.0	**42**	<63	**160**
R-PSDA	<2.0	**66 J**	**180 J**	**570 J**
Hydrolyzed PSDA	**2.5 J**	<2.0	<160	**470 J**
R-PSDCA	<3.0	<3.0	<94	<94
NVHOS, Acid Form	<3.0	<3.0	<94	**470**
EVE Acid	<2.0	<2.0	<210	<210
Hydro-EVE Acid	<2.0	**3.0**	<63	**170**
R-EVE	<2.0	**31 J**	**100 J**	**190 J**
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<63	<63
PFECA B	<2.0	<2.0	<78	<78
PFECA-G	<2.0	<2.0	<63	<63
PFPrA	**15**	**390**	**3,300**	**13,000**
Perfluoroheptanoic Acid	**2.7**	<2.0	<63	**69**
Total Attachment C[1,2]	**23**	**1,400**	**12,000**	**78,000**
Total Table 3+ (17 compounds)[1,2]	**23**	**1,400**	**12,000**	**78,000**
Total Table 3+ (18 compounds)[1,3]	**38**	**1,800**	**16,000**	**91,000**
Total Table 3+ (21 compounds)[1]	**40**	**1,900**	**16,000**	**92,000**

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

Location ID	OLDOF-1	OUTFALL 002	OUTFALL 002	RIVER WATER INTAKE 2
Field Sample ID	CAP1Q25-OLDOF-1-8-010725	CAP1Q25-OUTFALL-002-24-010825	CAP1Q25-OUTFALL-002-24-010825D	RIVER-WATER-INTAKE-010825
Sample Date	1/7/2025	1/8/2025	1/8/2025	1/8/2025
QA/QC			Field Duplicate	
Sample Delivery Group (SDG)	320-118153-1	320-118154-1	320-118154-1	320-118193-1
Lab Sample ID	320-118153-5	320-118154-1	320-118154-2	320-118193-4
Table 3+ (ng/L)				
HFPO Dimer Acid	**180**	**30**	**28**	**10**
PFMOAA	**920**	**34**	**33**	**26**
PFO2HxA	**320**	**24**	**24**	**16**
PFO3OA	**120**	**5.6**	**6.1**	<2.0
PFO4DA	**57**	**3.5**	**3.8**	<2.0
PFO5DA	**19**	<2.0	<2.0	<2.0
PMPA	**150**	**28**	**28**	**17**
PEPA	**50**	**5.7**	**5.8**	**3.5**
PS Acid	<2.0	**2.8**	**2.5**	<2.0
Hydro-PS Acid	**8.3**	<2.0	<2.0	<2.0
R-PSDA	**17 J**	**16 J**	**14 J**	**2.2 J**
Hydrolyzed PSDA	**25 J**	**86 J**	**85 J**	**7.9 J**
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS, Acid Form	**13**	<3.0	<3.0	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	**4.9**	<2.0	<2.0	<2.0
R-EVE	**7.5 J**	**9.7 J**	**6.4 J**	<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	**1,300 J**	**120**	**120**	**69**
Perfluoroheptanoic Acid	<2.0	**2.5**	**2.2**	**2.4**
Total Attachment C[1,2]	**1,800**	**130**	**130**	**73**
Total Table 3+ (17 compounds)[1,2]	**1,800**	**130**	**130**	**73**
Total Table 3+ (18 compounds)[1,3]	**3,100**	**250**	**250**	**140**
Total Table 3+ (21 compounds)[1]	**3,200**	**370**	**360**	**150**

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

Location ID	RIVER WATER INTAKE 2	SEEP-C-EFF	WC-1	EB
Field Sample ID	RIVER-WATER-INTAKE-18-010925	CAP1Q25-SEEP-C-EFF-16-010825	CAP1Q25-WC-1-21-010825	CAP1Q25-EQBLK-IS-010825
Sample Date	1/9/2025	1/8/2025	1/8/2025	1/8/2025
QA/QC				Equipment Blank
Sample Delivery Group (SDG)	320-118193-1	320-118153-1	320-118153-1	320-118153-1
Lab Sample ID	320-118193-3	320-118153-1	320-118153-2	320-118153-10
Table 3+ (ng/L)				
HFPO Dimer Acid	**14**	<4.0	**160**	<4.0
PFMOAA	**31**	**26**	**460**	<2.0
PFO2HxA	**19**	**4.5**	**250**	<2.0
PFO3OA	**2.8**	<2.0	**42**	<2.0
PFO4DA	<2.0	<2.0	**8.0**	<2.0
PFO5DA	<2.0	<2.0	<2.0	<2.0
PMPA	**21**	**5.9**	**290**	<2.0
PEPA	**3.7**	<2.0	**59**	<2.0
PS Acid	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	<2.0	<2.0	**8.0**	<2.0
R-PSDA	**4.4 J**	<2.0	**49 J**	<2.0
Hydrolyzed PSDA	**11 J**	<2.0	**200 J**	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0
NVHOS, Acid Form	<3.0	<3.0	**5.5**	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	**2.4**	<2.0
R-EVE	<2.0	<2.0	**26 J**	<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	**75**	**44**	**340**	<5.0
Perfluoroheptanoic Acid	**2.7**	<2.0	<2.0	<2.0
Total Attachment C[1,2]	**92**	**36**	**1,300**	ND
Total Table 3+ (17 compounds)[1,2]	**92**	**36**	**1,300**	ND
Total Table 3+ (18 compounds)[1,3]	**170**	**80**	**1,600**	ND
Total Table 3+ (21 compounds)[1]	**180**	**80**	**1,900**	ND

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

Location ID	EB
Field Sample ID	CAP1Q25-EQBLK-PP-010825
Sample Date	1/8/2025
QA/QC	Equipment Blank
Sample Delivery Group (SDG)	320-118153-1
Lab Sample ID	320-118153-9
Table 3+ (ng/L)	
HFPO Dimer Acid	<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, Acid Form	<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[1,2]	ND
Total Table 3+ (17 compounds)[1,2]	ND
Total Table 3+ (18 compounds)[1,3]	ND
Total Table 3+ (21 compounds)[1]	ND

Notes:

-- Not measured

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	Black Creek Aquifer	Floodplain Deposits	Black Creek Aquifer
Location ID	**BLADEN-1DR**	**BLADEN-1DR**	**LTW-01**	**LTW-02**
Field Sample ID	**CAP1Q25-BLADEN-1DR-011625**	**CAP1Q25-BLADEN-1DR-011625-D**	**1Q25CAP-LTW-01-012825**	**1Q25CAP-LTW-02-012125**
Sample Date	**1/16/2025**	**1/16/2025**	**1/28/2025**	**1/21/2025**
QA/QC		**Field Duplicate**		
Sample Delivery Group (SDG)	**320-118342-1**	**320-118342-1**	**320-118667-1**	**320-118661-1**
Lab Sample ID	**320-118342-6**	**320-118342-7**	**320-118667-3**	**320-118661-6**
Table 3+ (ng/L)				
HFPO-DA	**150**	**160**	**14,000**	**15,000**
PFMOAA	<63	<63	**19,000**	**32,000**
PFO2HxA	**96**	**120**	**16,000**	**26,000**
PFO3OA	<110	<110	**4,400**	**6,000**
PFO4DA	<63	<63	**1,100**	**370**
PFO5DA	<130	<130	<130	<130
PMPA	**340**	**340**	**12,000**	**12,000**
PEPA	**110**	**120**	**4,300**	**3,800**
PS Acid	<63	<63	<63	<63
Hydro-PS Acid	<63	<63	**250**	<63
R-PSDA	<63	<63	**1,100 J**	**1,200 J**
Hydrolyzed PSDA	<160	<160	**760 J**	**2,800 J**
R-PSDCA	<94	<94	<94	<94
NVHOS, Acid Form	<94	<94	**340**	**570**
EVE Acid	<210	<210	<210	<210
Hydro-EVE Acid	<63	<63	**130**	**100**
R-EVE	<63	<63	**520 J**	**680 J**
Perfluoro(2-ethoxyethane)sulfonic Acid	<63	<63	<63	<63
PFECA B	<78	<78	<78	<78
PFECA-G	<63	<63	<63	<63
PFPrA	<310	<310	**19,000**	**24,000**
Perfluoroheptanoic Acid	<63	<63	<63	<63
Total Attachment C[2,3]	**700**	**740**	**71,000**	**95,000**
Total Table 3+ (17 compounds)[3,4]	**700**	**740**	**72,000**	**96,000**
Total Table 3+ (18 compounds)[3,5]	**700**	**740**	**91,000**	**120,000**
Total Table 3+ (21 compounds)[3]	**700**	**740**	**93,000**	**120,000**

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit[1]	Floodplain Deposits	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer
Location ID	**LTW-03**	**LTW-04**	**LTW-05**	**OW-28**
Field Sample ID	**1Q25CAP-LTW-03-012925**	**1Q25CAP-LTW-04-012825**	**1Q25CAP-LTW-05-012725**	**CAP1Q25-OW-28-010925**
Sample Date	**1/29/2025**	**1/28/2025**	**1/27/2025**	**1/9/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118667-1**	**320-118660-1**	**320-118667-1**	**320-118273-1**
Lab Sample ID	**320-118667-7**	**320-118660-5**	**320-118667-1**	**320-118273-1**
Table 3+ (ng/L)				
HFPO-DA	**7,700**	**21,000**	**31,000**	**3,400**
PFMOAA	**75,000 J**	**60,000 J**	**110,000 J**	**1,400**
PFO2HxA	**24,000**	**27,000**	**55,000 J**	**2,800**
PFO3OA	**4,100**	**4,300**	**15,000**	**540**
PFO4DA	**150**	**580**	**1,700**	**99**
PFO5DA	<130	<130	<130	<130
PMPA	**11,000**	**15,000**	**6,800**	**4,900**
PEPA	**2,400**	**5,000**	**960**	**1,900**
PS Acid	<63	<63	<63	<63
Hydro-PS Acid	<63	**190**	**220**	**71**
R-PSDA	**1,000 J**	**2,800 J**	**2,100 J**	**270 J**
Hydrolyzed PSDA	**8,000 J**	**3,600 J**	**3,500 J**	<160
R-PSDCA	<94	<94	<94	<94
NVHOS, Acid Form	**1,100**	**1,400**	**2,100**	<94
EVE Acid	<210	<210	<210	<210
Hydro-EVE Acid	<63	**450**	**890**	<63
R-EVE	**400 J**	**2,300 J**	**2,000 J**	**160 J**
Perfluoro(2-ethoxyethane)sulfonic Acid	<63	<63	<63	<63
PFECA B	<78	<78	<78	<78
PFECA-G	<63	<63	<63	<63
PFPrA	**49,000**	**61,000 J**	**110,000 J**	**4,200**
Perfluoroheptanoic Acid	<63	**64**	**250**	<63
Total Attachment C[2,3]	**120,000**	**130,000**	**220,000**	**15,000**
Total Table 3+ (17 compounds)[3,4]	**130,000**	**130,000**	**220,000**	**15,000**
Total Table 3+ (18 compounds)[3,5]	**170,000**	**200,000**	**330,000**	**19,000**
Total Table 3+ (21 compounds)[3]	**180,000**	**200,000**	**340,000**	**20,000**

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit[1]	Black Creek Aquifer	Black Creek Aquifer	Floodplain Deposits	Black Creek Aquifer
Location ID	**OW-33**	**PIW-1D**	**PIW-1S[6]**	**PIW-3D**
Field Sample ID	**CAP1Q25-OW-33-010925**	**1Q25CAP-PIW-1D-012325**	**--**	**CAP1Q25-PIW-3D-011625**
Sample Date	**1/9/2025**	**1/23/2025**	**--**	**1/16/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118273-1**	**320-118673-1**	**--**	**320-118342-1**
Lab Sample ID	**320-118273-2**	**320-118673-2**	**--**	**320-118342-5**
Table 3+ (ng/L)				
HFPO-DA	**4,500**	**12,000**	--	**14,000**
PFMOAA	**8,100**	**5,300**	--	**18,000**
PFO2HxA	**5,300**	**7,700**	--	**19,000**
PFO3OA	**890**	**1,500**	--	**3,500**
PFO4DA	<63	**270**	--	**1,000**
PFO5DA	<130	<63	--	<130
PMPA	**5,700**	**8,600**	--	**14,000**
PEPA	**2,100**	**3,100**	--	**4,900**
PS Acid	<63	<31	--	<63
Hydro-PS Acid	<63	**84**	--	**250**
R-PSDA	**370 J**	**720 J**	--	**850 J**
Hydrolyzed PSDA	<160	<78	--	**170 J**
R-PSDCA	<94	<47	--	<94
NVHOS, Acid Form	**130**	**93**	--	**380**
EVE Acid	<210	<110	--	<210
Hydro-EVE Acid	<63	<31	--	**85**
R-EVE	**220 J**	**500 J**	--	**470 J**
Perfluoro(2-ethoxyethane)sulfonic Acid	<63	<31	--	<63
PFECA B	<78	<39	--	<78
PFECA-G	<63	<31	--	<63
PFPrA	**7,500**	**10,000**	--	**19,000**
Perfluoroheptanoic Acid	<63	<31	--	<63
Total Attachment C[2,3]	**27,000**	**39,000**	--	**75,000**
Total Table 3+ (17 compounds)[3,4]	**27,000**	**39,000**	--	**75,000**
Total Table 3+ (18 compounds)[3,5]	**34,000**	**49,000**	--	**94,000**
Total Table 3+ (21 compounds)[3]	**35,000**	**50,000**	--	**96,000**

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-06**
Field Sample ID	**CAP1Q25-PIW-7D-010925**	**CAP1Q25-PIW-7S-011525**	**1Q25CAP-PW-04-012325**	**1Q25CAP-PW-06-012325**
Sample Date	**1/9/2025**	**1/15/2025**	**1/23/2025**	**1/23/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118273-1**	**320-118342-1**	**320-118673-1**	**320-118661-1**
Lab Sample ID	**320-118273-3**	**320-118342-3**	**320-118673-7**	**320-118661-5**
Table 3+ (ng/L)				
HFPO-DA	**14,000**	**12,000**	**330**	**650**
PFMOAA	**120,000 J**	**14,000**	**180**	**96**
PFO2HxA	**44,000**	**10,000**	**380**	**420**
PFO3OA	**6,000**	**3,700**	**270**	<110
PFO4DA	**1,100**	**420**	**80**	<63
PFO5DA	<130	<130	<63	<130
PMPA	**6,200**	**8,700**	**380**	**460**
PEPA	**1,300**	**3,300**	**120**	**170**
PS Acid	<63	<63	<31	<63
Hydro-PS Acid	**84**	**320**	**47**	<63
R-PSDA	**870 J**	**1,300 J**	**82 J**	<63
Hydrolyzed PSDA	**1,500 J**	<160	<78	<160
R-PSDCA	<94	<94	<47	<94
NVHOS, Acid Form	**1,400**	**730**	<47	<94
EVE Acid	<210	<210	<110	<210
Hydro-EVE Acid	**280**	**450**	<31	<63
R-EVE	**980 J**	**1,500 J**	**70 J**	<63
Perfluoro(2-ethoxyethane)sulfonic Acid	<63	<63	<31	<63
PFECA B	<78	<78	<39	<78
PFECA-G	<63	<63	<31	<63
PFPrA	**68,000 J**	**13,000**	**850**	**650**
Perfluoroheptanoic Acid	**70**	<63	<31	<63
Total Attachment C[2,3]	**190,000**	**52,000**	**1,800**	**1,800**
Total Table 3+ (17 compounds)[3,4]	**190,000**	**54,000**	**1,800**	**1,800**
Total Table 3+ (18 compounds)[3,5]	**260,000**	**67,000**	**2,600**	**2,400**
Total Table 3+ (21 compounds)[3]	**270,000**	**69,000**	**2,800**	**2,400**

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit[1]	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**PW-07**	**PW-09**	**PZ-22**	**SMW-10**
Field Sample ID	**1Q25CAP-PW-07-012325**	**CAP1Q25-PW-09-011625**	**1Q25CAP-PZ-22-012825**	**CAP1Q25-SMW-10-011525**
Sample Date	**1/23/2025**	**1/16/2025**	**1/28/2025**	**1/15/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118673-1**	**320-118342-1**	**320-118667-1**	**320-118342-1**
Lab Sample ID	**320-118673-6**	**320-118342-4**	**320-118667-2**	**320-118342-1**
Table 3+ (ng/L)				
HFPO-DA	**250**	**4.7**	**11,000**	**7.7**
PFMOAA	**120**	**19**	**93,000 J**	**200**
PFO2HxA	**440**	**6.7**	**34,000**	**24**
PFO3OA	**54**	<2.0	**5,200**	<2.0
PFO4DA	**63**	<2.0	**120**	<2.0
PFO5DA	<2.0	<2.0	<130	<2.0
PMPA	**400**	**7.9**	**6,700**	**31**
PEPA	**89**	**2.2**	**1,600**	<2.0
PS Acid	<2.0	<2.0	<63	<2.0
Hydro-PS Acid	**20**	<2.0	<63	<2.0
R-PSDA	**110 J**	<2.0	**870 J**	<2.0
Hydrolyzed PSDA	<2.0	<2.0	**4,000 J**	<2.0
R-PSDCA	<3.0	<3.0	<94	<3.0
NVHOS, Acid Form	<3.0	<3.0	**1,300**	<3.0
EVE Acid	<2.0	<2.0	<210	<2.0
Hydro-EVE Acid	**7.5**	<2.0	**81**	<2.0
R-EVE	**51 J**	<2.0	**420 J**	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<2.0	<2.0	<63	<2.0
PFECA B	<2.0	<2.0	<78	<2.0
PFECA-G	<2.0	<2.0	<63	<2.0
PFPrA	**710**	**11**	**66,000 J**	**230**
Perfluoroheptanoic Acid	**3.6**	<2.0	<63	<2.0
Total Attachment C[2,3]	**1,400**	**41**	**150,000**	**260**
Total Table 3+ (17 compounds)[3,4]	**1,400**	**41**	**150,000**	**260**
Total Table 3+ (18 compounds)[3,5]	**2,200**	**52**	**220,000**	**490**
Total Table 3+ (21 compounds)[3]	**2,300**	**52**	**220,000**	**490**

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit[1]	Surficial Aquifer	Black Creek Aquifer	--	--
Location ID	SMW-11	SMW-12	EB	EB
Field Sample ID	CAP1Q25-SMW-11-011525	1Q25CAP-SMW-12-012425	1Q25CAP-EQBLK-BAILER-013025	1Q25CAP-EQBLK-BP-013025
Sample Date	1/15/2025	1/24/2025	1/30/2025	1/30/2025
QA/QC			Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-118342-1	320-118673-1	320-118664-1	320-118664-1
Lab Sample ID	320-118342-2	320-118673-5	320-118664-5	320-118664-4
Table 3+ (ng/L)				
HFPO-DA	**5,800**	**2,900**	<4.0	<4.0
PFMOAA	**17,000**	**9,700**	<2.0	<2.0
PFO2HxA	**6,500**	**3,500**	<2.0	<2.0
PFO3OA	**1,400**	**360**	<2.0	<2.0
PFO4DA	**360**	<31	<2.0	<2.0
PFO5DA	<130	<63	<2.0	<2.0
PMPA	**3,700**	**3,700**	<2.0	<2.0
PEPA	**1,100**	**770**	<2.0	<2.0
PS Acid	<63	<31	<2.0	<2.0
Hydro-PS Acid	**89**	<31	<2.0	<2.0
R-PSDA	**200 J**	**170 J**	<2.0	<2.0
Hydrolyzed PSDA	**240 J**	<78	<2.0	<2.0
R-PSDCA	<94	<47	<3.0	<3.0
NVHOS, Acid Form	**330**	**140**	<3.0	<3.0
EVE Acid	<210	<110	<2.0	<2.0
Hydro-EVE Acid	<63	<31	<2.0	<2.0
R-EVE	**110 J**	**130 J**	<2.0	<2.0
Perfluoro(2-ethoxyethane)sulfonic Acid	<63	<31	<2.0	<2.0
PFECA B	<78	<39	<2.0	<2.0
PFECA-G	<63	<31	<2.0	<2.0
PFPrA	**7,600**	**7,500**	<5.0	<5.0
Perfluoroheptanoic Acid	<63	<31	<2.0	<2.0
Total Attachment C[2,3]	**36,000**	**21,000**	ND	ND
Total Table 3+ (17 compounds)[3,4]	**36,000**	**21,000**	ND	ND
Total Table 3+ (18 compounds)[3,5]	**44,000**	**29,000**	ND	ND
Total Table 3+ (21 compounds)[3]	**44,000**	**29,000**	ND	ND

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit[1]	--	--
Location ID	EB	EB
Field Sample ID	1Q25CAP-EQBLK-DV-013025	1Q25CAP-EQBLK-PP-013025
Sample Date	1/30/2025	1/30/2025
QA/QC	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-118664-1	320-118664-1
Lab Sample ID	320-118664-3	320-118664-2
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, Acid Form	<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[2,3]	ND	ND
Total Table 3+ (17 compounds)[3,4]	ND	ND
Total Table 3+ (18 compounds)[3,5]	ND	ND
Total Table 3+ (21 compounds)[3]	ND	ND

TABLE A6
GROUNDWATER ANALYTICAL RESULTS
Chemours Fayetteville Works, North Carolina

Water Bearing Unit[1]	--
Location ID	EB
Field Sample ID	CAP1Q25-EQBLK-PP-020325
Sample Date	2/3/2025
QA/QC	Equipment Blank
Sample Delivery Group (SDG)	320-118759-1
Lab Sample ID	320-118759-2
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, Acid Form	<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.
6 - PIW-1S was dry during the Q1 2025 Sampling event.

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]	1,726	0	0	0	0	8.4	0.64	8.4	0.64
2	Willis Creek	5.82	1,300	0.33	1,300	0.33	1,600	0.41	1,900	0.48
3	Aerial Deposition on Water Features	--	--	0.01	--	0.01	--	0.01	--	0.01
4	Outfall 002[6]	18	38	0.03	38	0.03	80	0.06	190	0.15
4A	Stormwater Treatment System[7]	--	--	--	--	--	--	--	--	--
5	Onsite Groundwater[8]	--	--	0.05	--	0.05	--	0.07	--	0.07
6A	Seep A	--	--	--	--	--	--	--	--	--
6B	Seep B	--	--	--	--	--	--	--	--	--
6C	Seep C	6.6E-03	36	1.0E-05	36	1.0E-05	80	2.3E-05	80	2.3E-05
6D	Seep D	--	--	--	--	--	--	--	--	--
6E	Lock and Dam Seep	5.0E-03	78,000	0.02	78,000	0.02	91,000	0.02	92,000	0.02
6F	Lock and Dam Seep North	1.6E-03	12,000	8.7E-04	12,000	8.7E-04	16,000	1.2E-03	16,000	1.2E-03
7	Outfall 003 Stream[9]	0.54	1,800	0.04	1,800	0.04	3,100	0.07	3,200	0.08
8	Offsite Adjacent and Downstream Groundwater	--	--	0	--	0	--	0.24	--	0.24
9	Georgia Branch Creek	3.02	1,400	0.18	1,400	0.18	1,800	0.24	1,900	0.25
Calculated Total Table 3+ Loading (mg/s) at Tar Heel				**0.66**		**0.66**		**1.76**		**1.94**

Notes:

-- Not calculated. The location was not sampled during the mass loading model event.

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 Perfluorohepthanoic 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.

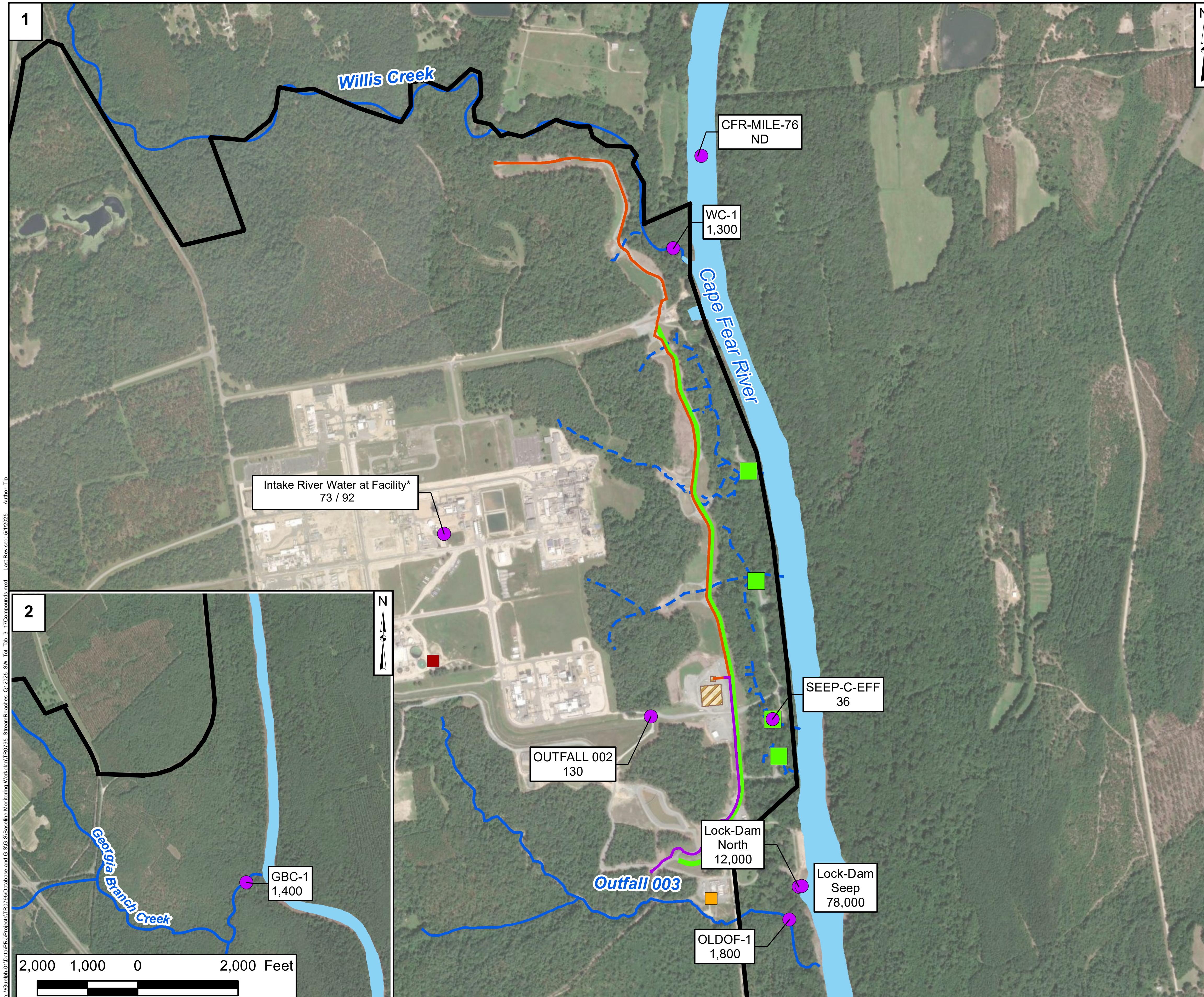
5 - The volumetric flow rate for upstream river water and groundwater was estimated by subtracting inflows from Willis Creek, upwelling groundwater, seeps to the river, and Outfall 002 and by adding the river water intake from Chemours to the flow rate measurement from the W.O. Huske Dam.

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 - For January 2025, 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

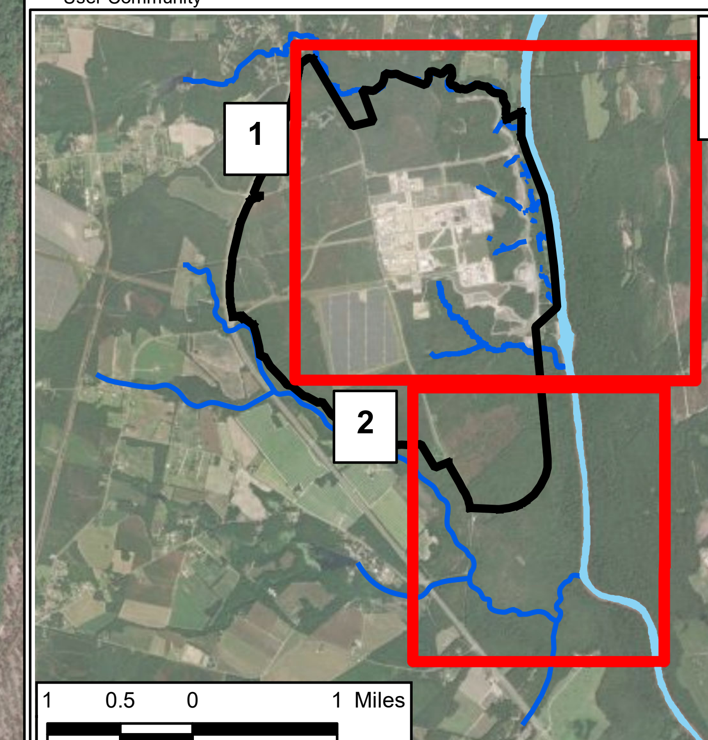
Legend

- Sample Location
- Flow-Through Cell
- Outfall 003 Treatment System
- Stormwater Treatment System
- Site Boundary
- Observed Seep
- Nearby Tributary
- North Forcemain
- South Forcemain
- Barrier Wall
- Groundwater Treatment Pad and Break Tank

OUTFALL 002 / 130 — Location Name; Total Table 3+ (17 Compounds) Concentration (ng/L)

Notes:
ND - non-detect
* Multiple results are shown for grab and composite sample

1. All results are in nanograms per liter (ng/L).
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



1,000 500 0 1,000 Feet

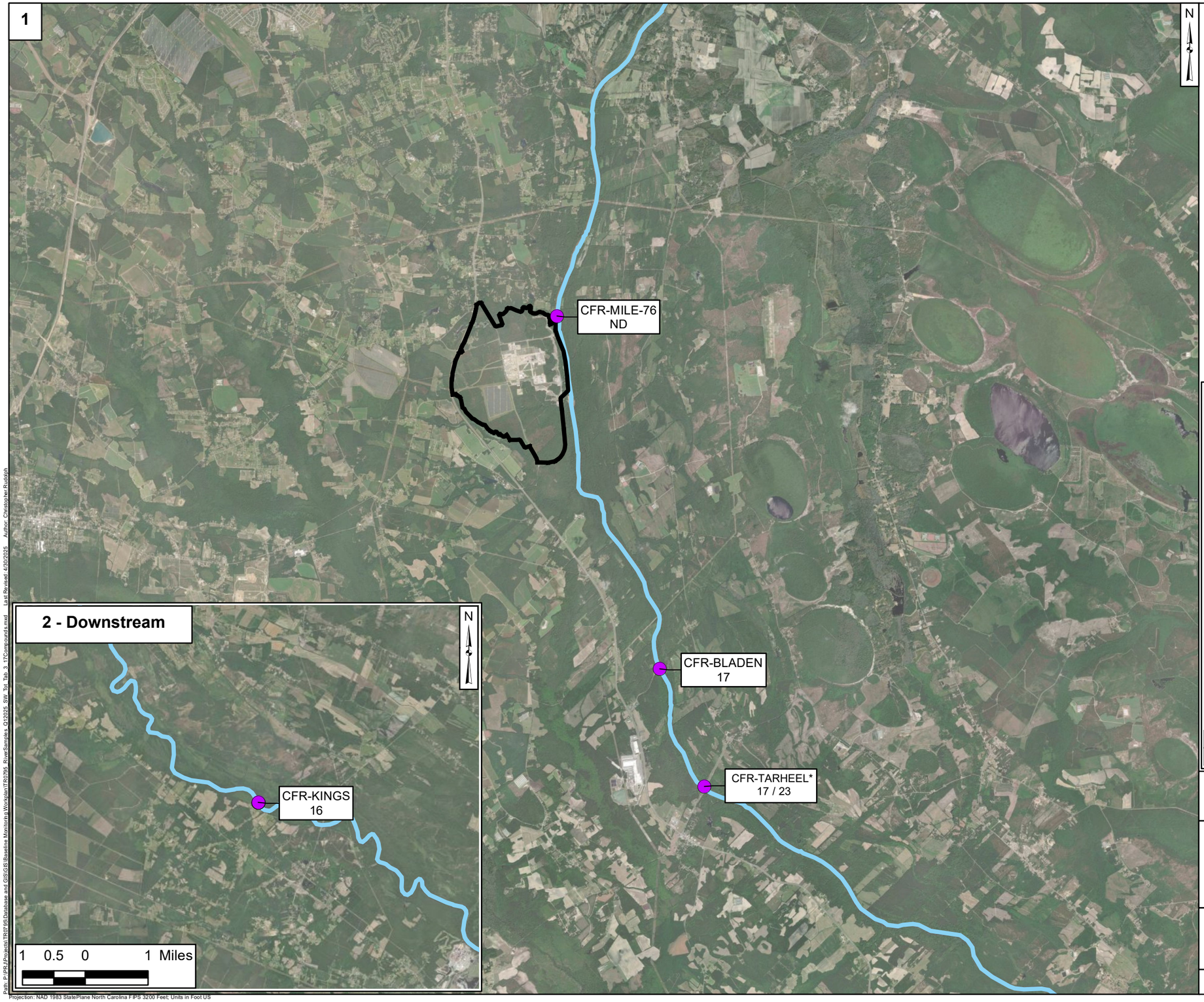
Total Table 3+ Concentrations (17 Compounds) in Surface Water - January 2025

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh	June 2025	Figure A1



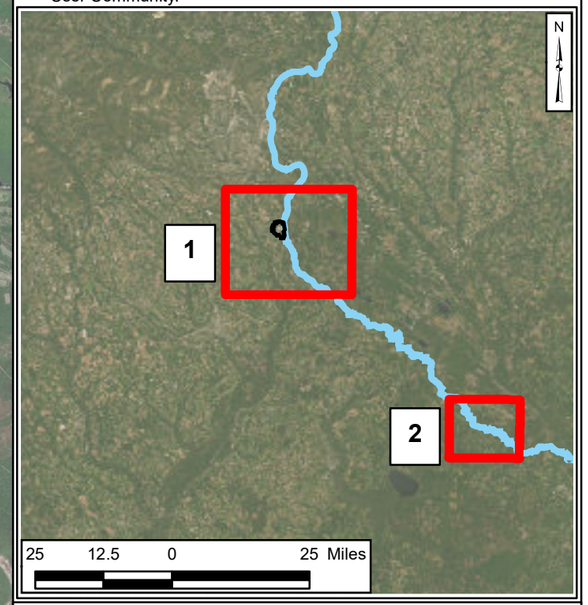
Legend

- Sample Location
- Cape Fear River
- Site Boundary

CFR-BLADEN 17 ← 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 for grab and composite sample

1. All results are in nanograms per liter (ng/L).
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.



2 1 0 2 Miles

Cape Fear River Total Table 3+ Concentrations (17 Compounds) - January 2025

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | June 2025

Figure **A2**

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_RiverSamples Q12025_SW_Tot_Tab_3_17Compounds.mxd Last Revised: 4/30/2025 Author: Christopher Rudolph

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

1

CFR-MILE-76
<4

CFR-BLADEN
<4

CFR-TARHEEL*
<4 / 4.9

CFR-KINGS
<4

2 - Downstream

1 0.5 0 1 Miles

N

Legend

Sample Location

Cape Fear River

Site Boundary

CFR-TARHEEL
<4

Location Name
HFPO-DA
Concentration (ng/L)

Notes:
< - Analyte not detected above associated reporting limit.
* Multiple results are shown for grab and composite sample
1. All results are in nanograms per liter (ng/L).
2. Basemap sources: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

1

2

25 12.5 0 25 Miles

2 1 0 2 Miles

**Cape Fear River HFPO-DA Concentrations
January 2025**

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

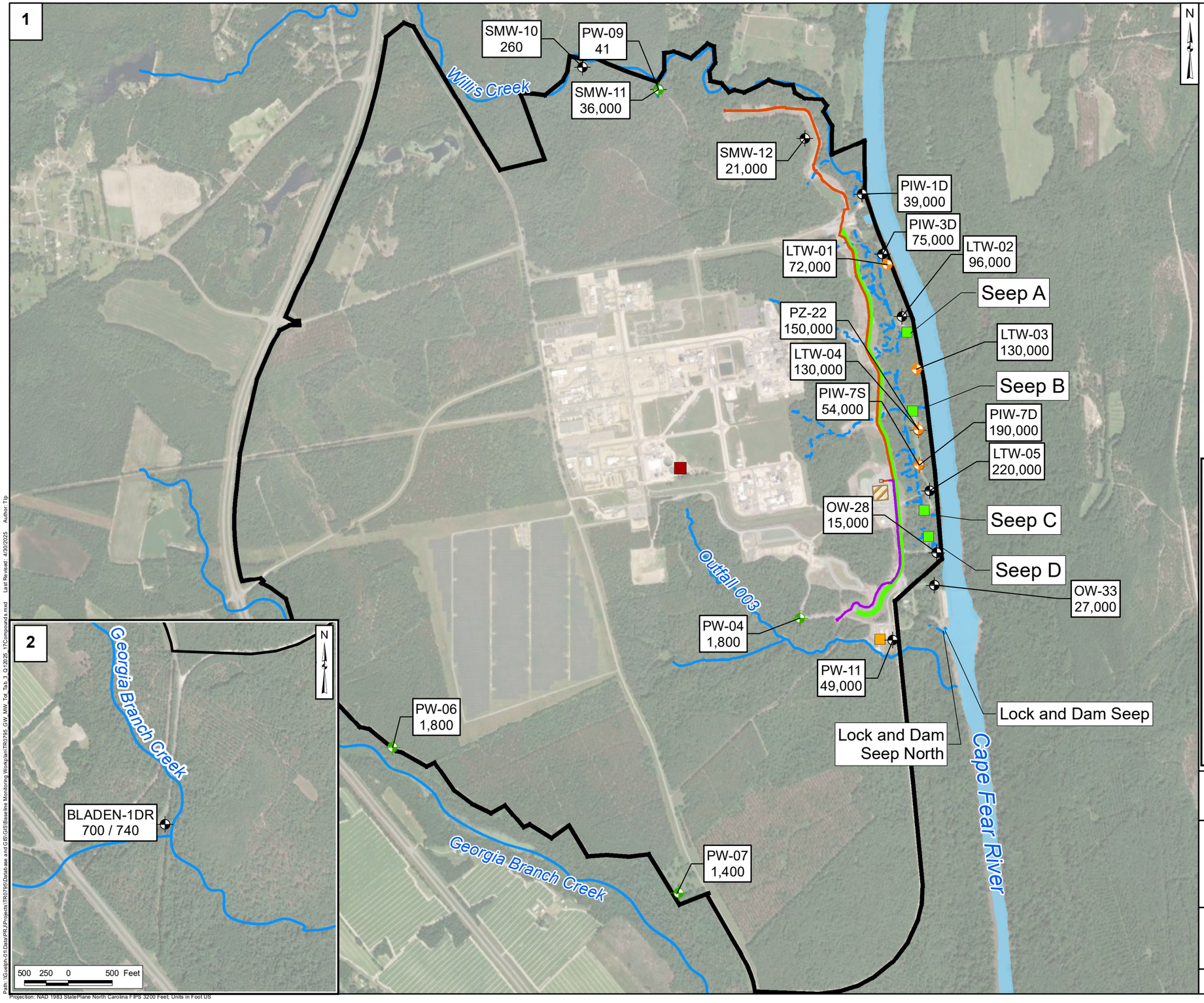
Raleigh

June 2025

Figure
A3

Path: P:\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_RiverSamples_Q12025_SW_HFPODA.mxd Last Revised: 4/30/2025 Author: Christopher Rudolph

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

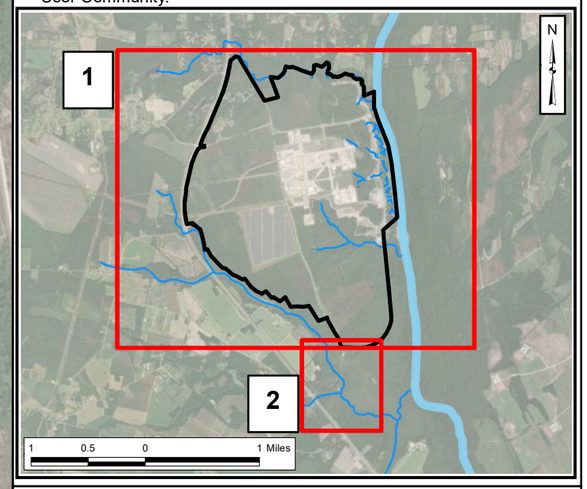


Legend

- 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 39,000 — Location Name / Total Table 3+ Concentration (ng/L)

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

1. All results are in nanograms per liter (ng/L).
2. Total table 3+ concentration includes HFPO-DA results evaluated by EPA Method 537 Mod and does not include R-PSDA, Hydrolyzed PSDA, and R-EVE.
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.



1,500 750 0 1,500 Feet

Total Table 3+ Concentrations (17 Compounds) in Groundwater - Q1 2025

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

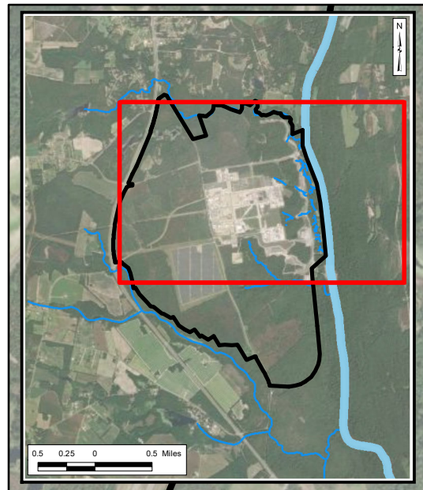
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | June 2025

Figure **A4**

Path: \\Guelph-fs1\Data\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring\Workplan\TR0795_GW_MW_Tot_Tab_3_Q12025_17Compounds.mxd Last Revised: 4/30/2025 Author: Tlp

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



Willis Creek

Cape Fear River

SMW-02
130.68

SMW-04A
DRY

PW-01
133.34

PZ-12
DRY

SMW-07
127.20

NAF-02
140.82

NAF-07
139.13

NAF-06
133.58

NAF-11A
132.35

NAF-04
138.97

PZ-11
139.30

NAF-05A
NM

NAF-01
138.70

PZ-21R
136.35

NAF-03
138.81

Seep A

NAF-12
136.52

NAF-13
NM

PZ-20R
135.63

PZ-35
NM

NAF-08A
137.93

FTA-01
132.13

PZ-19R
135.70

FTA-02
131.04

FTA-03
131.98

NAF-10
135.85

PZ-13
135.97

Seep B

MW-7S
135.86

NAF-09
135.73

MW-24
128.11

PZ-14
136.35

MW-30
132.81

MW-1S
129.42

PZ-15
133.57

MW-12S
130.34

MW-9S
132.31

MW-25
132.98

PZ-26
133.66

MW-23
133.19

PZ-45
NM

MW-26
134.91

PZ-28
134.15

Seep C

PZ-24
132.34

PZ-41
134.16

MW-27
131.62

PZ-27
132.34

PZ-44
NM

Seep D

MW-28
130.20

Outfall 003

Lock and Dam Seep

Lock and Dam Seep North

N

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:
ft NAVD88 - feet North American Vertical Datum 1988.
NM - not measured
1. Depth to water measurements collected on January 14, 2025.
2. Abandoned wells are not shown.
3. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
4. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
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 (MajorHydro shapefile).
6. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community.

1,000 500 0 1,000 Feet

Groundwater Elevation Map
Perched Zone - January 2025

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

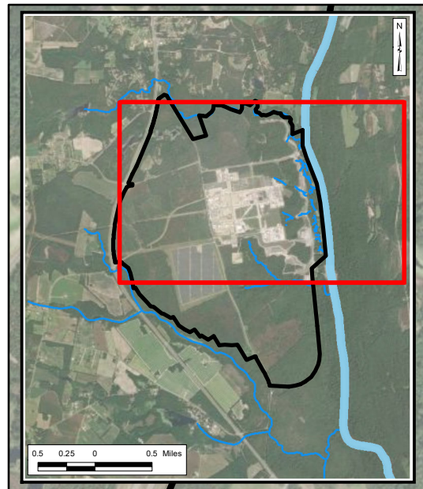
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | June 2025

Figure
A5-1

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Maps_Perched Q12025.mxd Last Revised: 4/30/2025 Author: ChristopherRudolph

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



Willis Creek

INSITU-01
82.67

MW-18D
84.93

SMW-11
56.33

INSITU-02R
69.68

MW-19D
83.99

SMW-09
81.17

MW-20D
85.06

SMW-02B
91.92

SMW-04B
97.27

PW-02
83.72

MW-21D
102.24

SMW-05PR
98.79

SMW-08B
103.27

SMW-06B
97.95

NAF-11B
DRY

MW-15DRR
98.25

PIW-5SR
DRY

MW-17D
112.24

MW-22D
108.69

MW-16D
107.90

NAF-05BR
NM

OW-34
67.55

NAF-08B
90.86

OW-35
69.02

PW-03
104.56

MW-13D
100.16

MW-14D
105.49

OW-36
63.50

PZ-L
113.83

PZ-25RR
94.16

PZ-17R
106.83

PIW-16S
128.65

MW-11R
101.92

OW-37
56.72

PW-05
116.62

SMW-01
137.12

Outfall 003

PIW-10S
DRY

PW-04
69.82

Cape Fear River

Seep A

Seep B

Seep C

Seep D

Lock and Dam Seep

Lock and Dam Seep North

Legend

- Surficial Aquifer 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
1. Depth to water measurements collected on January 14, 2025.
2. Abandoned wells are not shown.
3. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
4. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
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 (MajorHydro shapefile).
6. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

1,000 500 0 1,000 Feet

Groundwater Elevation Map
Surficial Aquifer - January 2025

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

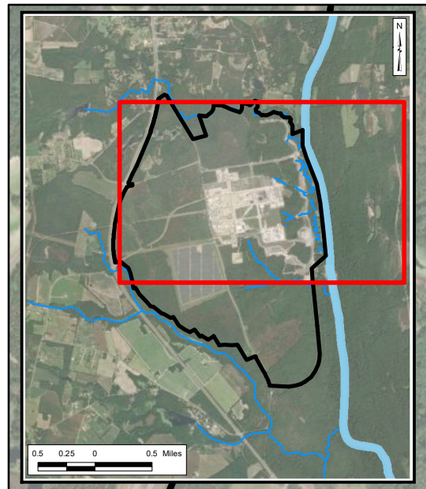
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

Raleigh | June 2025

Figure
A5-2

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Maps_Surficial_Q12025.mxd Last Revised: 4/30/2025 Author: Christopher Rudolph

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



Willis Creek

SMW-10 46.59
PW-09 47.58
PIW-11 43.50
OW-56 36.05
OW-55 28.32
OW-57 44.11
PIW-12 26.25
PIW-13 26.44
OW-11 46.18
OW-12 28.60
OW-41 45.91
OW-42 44.98
SMW-12 28.01
PIW-15 30.70
OW-54 DRY
OW-43 31.55
OW-13 30.60
PIW-15 30.70
PIW-1S 32.35
PIW-1D 31.41
OW-14 32.39
OW-44 35.03
OW-16 34.30
OW-10 57.11
SMW-03B 86.70
BCA-01 80.36
OW-1 57.09
EW-1-OLD NM
OW-15 49.71
PIW-3D 34.33
PW-12 89.10
PIW-2D 57.08
LTW-01 34.44
OW-18 46.64
OW-45 38.91
LTW-02 38.76
PW-15R 69.75
OW-17 33.30
PIW-4D 38.74
OW-3 34.33
BCA-03R 95.40
PW-10RR 38.43
Seep A
EW-4-OLD NM
OW-2 34.15
OW-20 38.10
PIW-6S 36.78
OW-46 38.09
OW-19 32.72
LTW-03 36.76
OW-52 37.59
OW-53 37.99
Seep B
PW-13 135.80
OW-21 33.74
OW-47 37.89
PW-14 82.20
EW-5-OLD NM
LTW-04 37.70
OW-22 38.14
OW-7 33.41
OW-23 37.93
PIW-7D 37.97
OW-48 37.83
OW-24 32.10
PIW-7S 37.35
OW-25 37.72
LTW-05 37.36
PIW-16D 125.14
BCA-02 70.35
OW-49 37.71
PIW-8D 37.38
OW-51 31.23
Seep C
Seep D
BCA-04 117.72
OW-27 38.76
OW-26 41.36
OW-28 38.50
OW-29 44.34
OW-50 38.91
OW-9R 40.15
PIW-10DR 39.99
OW-33 39.17
OW-38 63.88
OW-31 39.86
OW-30 38.81
Lock and Dam Seep North
OW-40 40.16
OW-32 38.38
OW-39 40.40
PW-11 40.60
Lock and Dam Seep

Cape Fear River

Outfall 003

N

Legend

- Floodplain Deposits Monitoring Well
- Black Creek Aquifer 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
1. Depth to water measurements collected on January 14, 2025.
2. Abandoned wells are not shown.
3. Ground surface elevation contours are derived from Lidar scans performed on December 1, 2019 and December 19, 2019 by Spectral Data Consultants, Inc.
4. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
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 (MajorHydro shapefile).
6. Basemap source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

1,000 500 0 1,000 Feet

Groundwater Elevation Map
Black Creek Aquifer - January 2025

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | June 2025

Figure
A5-3

Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Contours_Maps_BlackCreek_Q12025.mxd Last Revised: 4/30/2025 Author: Christopher Rudolph

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

Geosyntec consultants

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

Attachment ATT1

Supplemental Tables to the Mass Loading Model

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

Date/Time	Flow Rate[1] (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume (gal)
--	--	--	--	--
Total Flow Volume (gal)				--

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - There was insufficient flow observed in Seep A FTC Effluent Basin at the time of sampling and therefore a flow rate was not calculated.

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

Date/Time	Flow Rate[1] (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume (gal)
--	--	--	--	--
Total Flow Volume (gal)				--

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - There was insufficient flow observed in Seep B FTC Effluent Basin at the time of sampling and therefore a flow rate was not calculated.

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

Date/Time	Flow Rate[1] (gpm)	Flow Volume (gal)
1/7/2025 8:57	--	--
1/7/2025 9:12	--	--
1/7/2025 9:27	23.8	356.7
1/7/2025 9:42	23.8	356.7
1/7/2025 9:57	23.8	356.7
1/7/2025 10:12	23.8	356.7
1/7/2025 10:27	23.8	356.7
1/7/2025 10:42	23.8	356.7
1/7/2025 10:57	23.8	356.7
1/7/2025 11:12	23.8	356.7
1/7/2025 11:27	23.8	356.7
1/7/2025 11:42	23.8	356.7
1/7/2025 11:57	23.8	356.7
1/7/2025 12:12	23.8	356.7
1/7/2025 12:27	23.8	356.7
1/7/2025 12:42	23.8	356.7
1/7/2025 12:57	23.8	356.7
1/7/2025 13:12	23.8	356.7
1/7/2025 13:27	23.8	356.7
1/7/2025 13:42	--	--
1/7/2025 13:57	--	--
1/7/2025 14:12	--	--
1/7/2025 14:27	--	--
1/7/2025 14:42	--	--
1/7/2025 14:57	--	--
1/7/2025 15:12	--	--
1/7/2025 15:27	--	--
1/7/2025 15:42	--	--
1/7/2025 15:57	--	--
1/7/2025 16:12	--	--
1/7/2025 16:27	--	--
1/7/2025 16:42	--	--
1/7/2025 16:57	--	--
1/7/2025 17:12	--	--
1/7/2025 17:27	--	--
1/7/2025 17:42	--	--
1/7/2025 17:57	--	--
1/7/2025 18:12	--	--
1/7/2025 18:27	--	--
1/7/2025 18:42	--	--
1/7/2025 18:57	--	--
1/7/2025 19:12	--	--
1/7/2025 19:27	--	--
1/7/2025 19:42	--	--

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

Date/Time	Flow Rate[1] (gpm)	Flow Volume (gal)
1/7/2025 19:57	--	--
1/7/2025 20:12	--	--
1/7/2025 20:27	--	--
1/7/2025 20:42	--	--
1/7/2025 20:57	--	--
1/7/2025 21:12	--	--
1/7/2025 21:27	--	--
1/7/2025 21:42	--	--
1/7/2025 21:57	--	--
1/7/2025 22:12	--	--
1/7/2025 22:27	--	--
1/7/2025 22:42	--	--
1/7/2025 22:57	--	--
1/7/2025 23:12	--	--
1/7/2025 23:27	--	--
1/7/2025 23:42	--	--
1/7/2025 23:57	--	--
1/8/2025 0:12	--	--
1/8/2025 0:27	--	--
1/8/2025 0:42	--	--
1/8/2025 0:57	--	--
1/8/2025 1:12	--	--
Total Flow Volume (gal)		**6,064**

Notes:

gal - gallons

gpm - gallons per minute

FTC - Flow Through Cell

1 - Seep C FTC Effluent Basin was pumped at a constant rate of 23.8 gpm from 9:27am to 1:27 pm on 1/7/2025.

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

Date/Time	Flow Rate[1] (gpm)	Bypass Spillway Flow Rate (gpm)	Bypass Spillway Volume (gal)	Flow Volume (gal)
--	--	--	--	--
Total Flow Volume (gal)				--

Notes:
gal - gallons
gpm - gallons per minute
FTC - Flow Through Cell
1 - There was insufficient flow observed in Seep D FTC Effluent Basin at the time of sampling and therefore a flow rate was not calculated.

TABLE ATT1-5
OUTFALL 003 STREAM 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)
North Bank	0	0	0.10	0	0.51	0.05
B	0.5	0.40	0.20	0.49	0.99	0.20
M	0.5	0.20		1.01		
T	0.5	0		1.24		
B	1.0	0.40	0.21	0.62	0.96	0.20
M	1.0	0.20		0.96		
T	1.0	0		1.08		
B	1.5	0.45	0.21	0.70	0.93	0.20
M	1.5	0.23		0.95		
T	1.5	0		1.09		
B	2.0	0.40	0.20	0.52	0.88	0.18
M	2.0	0.20		0.90		
T	2.0	0		1.27		
B	2.5	0.40	0.02	0.17	0.43	0.01
M	2.5	0.20		0.86		
T	2.5	0		1.12		
South Bank	2.6	0		0		
			Total Volumetric Discharge (ft^3/s)			0.83
			(gpm)			374
			(L/s)			23.6

Associated Measurement Notes
Location: Chemours Fayetteville
Station: Outfall 003 Treatment Plant Effluent Stream
Date: January 7, 2025

Acronyms
- - data not measured or calculated
B - Bottom depth of water
ft - feet
ft^2 - square feet
ft^3/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 ATT1-6
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)
North Bank	0	0	1.13	0	0.05	0.06
B	3	0.75	2.75	0.06	0.30	0.81
T	3	0.38		0.14		
B	6	1.08	3.38	0.27	0.37	1.23
M	6	0.54		0.49		
T	6	0.08		0.60		
B	9	1.17	3.50	0.02	0.29	1.00
M	9	0.58		0.24		
T	9	0.08		0.50		
B	12	1.17	4.00	0.02	0.39	1.56
M	12	0.58		0.33		
T	12	0.08		0.77		
B	15	1.50	3.13	0.07	0.02	0.07
M	15	0.75		0.45		
T	15	0.08		0.80		
B	18	0.58	3.25	-0.01	-0.15	-0.50
T	18	0.08		-0.80		
B	21	1.58	5.00	0.04	0.40	1.98
M	21	0.79		0.10		
T	21	0.08		0.32		
B	24	1.75	5.00	0.34	0.47	2.33
M	24	0.88		0.69		
T	24	0.08		0.60		
B	27	1.58	3.38	0.10	0.14	0.46
M	27	0.79		0.24		
T	27	0.08		0.35		
B	30	0.67	0.67	0.05	0.02	0.01
T	30	0.08		0.01		
Bank	32	0		0		
			Total Volumetric Discharge			
			(ft^3/s)			9.0
			(gpm)			4,038
			(L/s)			255

Associated Measurement Notes
Location: Chemours Fayetteville
Station: Willis Creek 06 (SW-WC-06)
Date: January 7, 2025

Acronyms
- - data not measured or calculated
B - Bottom depth of water
ft - feet
ft^2 - square feet
ft^3/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

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)
North Bank	0	0	0.20	0	0.01	0
B	1	0.40	0.45	0.02	0.03	0.01
M	1	0.20		0.01		
T	1	0		0.01		
B	2	0.50	0.60	0.03	0.03	0.02
M	2	0.25		0.04		
T	2	0		0.01		
B	3	0.70	0.75	0.01	0.19	0.14
M	3	0.35		0.02		
T	3	0		0.02		
B	4	0.80	0.80	0.18	0.47	0.37
M	4	0.40		0.35		
T	4	0		0.27		
B	5	0.80	0.75	0.33	0.68	0.51
M	5	0.40		0.58		
T	5	0		0.51		
B	6	0.70	0.75	0.57	0.78	0.59
M	6	0.35		0.78		
T	6	0		0.82		
B	7	0.80	0.78	0.43	0.79	0.61
M	7	0.40		0.78		
T	7	0		0.84		
B	8	0.75	0.78	0.69	0.88	0.68
M	8	0.34		0.79		
T	8	0		0.76		
B	9	0.80	0.85	0.78	0.94	0.80
M	9	0.40		0.97		
T	9	0		0.87		
B	10	0.90	0.90	0.66	0.71	0.64
M	10	0.45		0.91		
T	10	0		0.92		
B	11	0.90	0.65	0.05	0.40	0.26
M	11	0.45		0.51		
T	11	0		0.72		
B	12	0.40	0.28	0.11	0.15	0.04
M	12	0.20		0.29		
T	12	0		0.49		
T	13	0.15	0.08	0.01	0.01	0
South Bank	14	0		0		
			Total Volumetric Discharge			
			(ft^3/s)			4.7
			(gpm)			2,096
			(L/s)			132

Associated Measurement Notes
Location: Chemours Fayetteville
Station: Georgia Branch 05 (SW-GB-01)
Date: February 7, 2025

Acronyms
- - data not measured or calculated
B - Bottom depth of water
ft - feet
ft^2 - square feet
ft^3/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

Q1 2025 Quarterly Event	Date	Outfall 002 Flow (MGD)	Total Daily Volume (gal)	Hours of Sample Collection	Approximate Total Volume during 24 hour Sample Collection (gal)
January 2025[1]	1/7/2025	18.07	18,065,000	15.0	11,290,625
	1/8/2025	21.46	21,456,000	8.0	7,152,000
	1/7/2025 9:00 AM to 1/8/2025 8:00 AM			23.0	18,442,625

Notes:
Daily flow rates collected from facility Discharge Monitoring Reports.
1 - Total flow volume for 24-hour temporal composite sample collected at 8:00 AM on 1/8/2025 approximated based on flow rates for 1/7/2025 and 1/8/2025.

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 2025 Quarterly Event	Pathway/ Location	Sample Collection Timepoint	Flow Gauging Location[1]	Grab Sample Instantaneous Flow Rate (ft^3/s)[2]
Janaury 2025	Upstream River Water and Groundwater	01/07/25 9:25	William O Huske Lock and Dam	2,710

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:
ft^3/s - cubic feet per second
hr - hours
MGD - millions of gallons per day

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

Q1 2025 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)
January 2025[1]	1/8/2025	9,625	13,860,183	13.5	7,777,102
	1/9/2025	9,021	12,989,679	3.53	1,912,369
	1/8/2025 10:32:00 AM to 11/9/2025 3:32:00 AM			17.0	9,689,472

Notes:
Daily flow rates collected from facility Discharge Monitoring Reports.
1 - Total flow volume for 24-hour temporal composite sample collected at 3:32 AM on 1/9/2025 approximated based on flow rates for 1/8/2025 and 1/9/2025.

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-1	LOCK-DAM NORTH
Field Sample ID	CAP1Q25-CFR-BLADEN-010725	CAP1Q25-CFR-KINGS-011325	CAP1Q25-CFR-RM-76-010725	CAP1Q25-CFR-TARHEEL-010825	CAP1Q25-CFR-TARHEEL-24-010925	CAP1Q25-GBC-1-010725	CAP1Q25-LOCK-DAM-NORTH-010725
Sample Date	1/7/2025	1/13/2025	1/7/2025	1/8/2025	1/9/2025	1/7/2025	1/7/2025
QA/QC							
Sample Delivery Group (SDG)	320-118153-1	320-118272-1	320-118153-1	320-118193-1	320-118193-1	320-118153-1	320-118154-1
Lab Sample ID	320-118153-8	320-118272-1	320-118153-6	320-118193-2	320-118193-1	320-118153-7	320-118154-4
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<84
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<86
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
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	<160
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
DONA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
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	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<160
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<160
Perfluorobutane Sulfonic Acid	**2.7**	**2.9**	**2.4**	**3.5**	**3.1**	**2.3**	<63
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	**7.3**	<160
Perfluorodecane Sulfonic Acid	<2.0	**2.1**	<2.0	<2.0	<2.0	<2.0	<63
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
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	<63
Perfluoroheptanoic Acid	**2.1**	**2.6**	**2.2**	**2.7**	**2.7**	<2.0	<63
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
Perfluorohexane Sulfonic Acid	**3.6**	**3.8**	**3.8**	**4.2**	**4.0**	<2.0	<71
Perfluorohexanoic Acid	**4.4**	**5.2**	**4.5**	**5.3**	**4.9**	**2.2**	<73
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<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	<63
Perfluoropentanoic Acid	**4.6**	**4.6**	**4.7**	**5.5**	**5.4**	**7.0**	**68**
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	<63
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
PFOA	**5.3**	**6.2**	**5.6**	**6.4**	**6.0**	**4.6**	<63
PFOS	**8.1**	**8.1**	**8.2**	**9.2**	**9.5**	<2.0	<63

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	OUTFALL 002	RIVER WATER INTAKE 2	RIVER WATER INTAKE 2	SEEP-C-EFF
Field Sample ID	CAP1Q25-LOCK-DAM-SEEP-010725	CAP1Q25-OLDOF-1-8-010725	CAP1Q25-OUTFALL-002-24-010825	OUTFALL-002-24-010825D	RIVER-WATER-INTAKE-010825	RIVER-WATER-INTAKE-18-010925	CAP1Q25-SEEP-C-EFF-16-010825
Sample Date	1/7/2025	1/7/2025	1/8/2025	1/8/2025	1/8/2025	1/9/2025	1/8/2025
QA/QC				Field Duplicate			
Sample Delivery Group (SDG)	320-118154-1	320-118153-1	320-118154-1	320-118154-1	320-118193-1	320-118193-1	320-118153-1
Lab Sample ID	320-118154-3	320-118153-5	320-118154-1	320-118154-2	320-118193-4	320-118193-3	320-118153-1
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<86	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
DONA	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
N-methyl perfluoro-1-octanesulfonamide	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<63	<2.0	**3.4**	**2.8**	**3.6**	**3.9**	<2.0
Perfluorobutanoic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<69	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**69**	<2.0	**2.5**	**2.2**	**2.4**	**2.7**	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<71	<2.0	**3.4**	**3.6**	**3.3**	**4.0**	<2.0
Perfluorohexanoic Acid	<73	<2.0	**4.6**	**4.9**	**4.6**	**5.6**	<2.0
Perfluorononanesulfonic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	**300**	**5.0**	**5.6**	**5.7**	**5.4**	**6.2**	<2.0
Perfluorotetradecanoic Acid	<91	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<63	<2.0	**5.8**	**5.6**	**5.3**	**6.3**	<2.0
PFOS	<63	<2.0	**7.7**	**7.4**	**6.9**	**7.3**	<2.0

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

Location ID	WC-1	EB	EB
Field Sample ID	CAP1Q25-WC-1-21-010825	CAP1Q25-EQBLK-IS-010825	CAP1Q25-EQBLK-PP-010825
Sample Date	1/8/2025	1/8/2025	1/8/2025
QA/QC		Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-118153-1	320-118153-1	320-118153-1
Lab Sample ID	320-118153-2	320-118153-10	320-118153-9
537 Mod (ng/L)			
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	**12**	<2.0	<2.0
Perfluorobutanoic Acid	**5.7**	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	**5.2**	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	**8.4**	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0
PFOA	**5.4**	<2.0	<2.0
PFOS	<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.

B - Analyte detected in an associated blank

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

< - Analyte not detected above associated reporting limit.

-- - Not measured / Not Applicable

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	Floodplain Deposits	Black Creek Aquifer
Location ID	**BLADEN-1DR**	**BLADEN-1DR**	**LTW-01**	**LTW-02**
Field Sample ID	**CAP1Q25-BLADEN-1DR-011625**	**CAP1Q25-BLADEN-1DR-011625-D**	**1Q25CAP-LTW-01-012825**	**1Q25CAP-LTW-02-012125**
Sample Date	**1/16/2025**	**1/16/2025**	**1/28/2025**	**1/21/2025**
QA/QC		**Field Duplicate**		
Sample Delivery Group (SDG)	**320-118342-1**	**320-118342-1**	**320-118667-1**	**320-118661-1**
Lab Sample ID	**320-118342-6**	**320-118342-7**	**320-118667-3**	**320-118661-6**
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84
11Cl-PF3OUdS	<86	<86	<86	<86
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<63	<63	<63	<63
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<63	<63	<63	<63
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180
6:2 Fluorotelomer sulfonate	<160	<160	<160	<160
9Cl-PF3ONS	<63	<63	<63	<63
DONA	<63	<63	<63	<63
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<63	<63	<63	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160
Perfluorobutane Sulfonic Acid	<63	<63	<63	<63
Perfluorobutanoic Acid	<160	<160	<160	<160
Perfluorodecane Sulfonic Acid	<63	<63	<63	<63
Perfluorodecanoic Acid	<63	<63	<63	<63
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120
Perfluorododecanoic Acid	<69	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<63	<63	<63	<63
Perfluoroheptanoic Acid	<63	<63	<63	<63
Perfluorohexadecanoic Acid (PFHxDA)	<63	<63	<63	<63
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71
Perfluorohexanoic Acid	<73	<73	<73	<73
Perfluorononanesulfonic Acid	<63	<63	<63	<63
Perfluorononanoic Acid	<63	<63	<63	<63
Perfluorooctadecanoic Acid	<120	<120	<120	<120
Perfluorooctane Sulfonamide	<120	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<63	<63	<63	<63
Perfluoropentanoic Acid	<63	<63	**270**	**350**
Perfluorotetradecanoic Acid	<91	<91	<91	<91
Perfluorotridecanoic Acid	<63	<63	<63	<63
Perfluoroundecanoic Acid	<63	<63	<63	<63
PFOA	<63	<63	<63	<63
PFOS	<63	<63	<63	<63

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

Water Bearing Unit[1]	Floodplain Deposits	Floodplain Deposits	Black Creek Aquifer	Black Creek Aquifer
Location ID	**LTW-03**	**LTW-04**	**LTW-05**	**OW-28**
Field Sample ID	**1Q25CAP-LTW-03-012925**	**1Q25CAP-LTW-04-012825**	**1Q25CAP-LTW-05-012725**	**CAP1Q25-OW-28-010925**
Sample Date	**1/29/2025**	**1/28/2025**	**1/27/2025**	**1/9/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118667-1**	**320-118660-1**	**320-118667-1**	**320-118273-1**
Lab Sample ID	**320-118667-7**	**320-118660-5**	**320-118667-1**	**320-118273-1**
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<84	<84	<84
11Cl-PF3OUdS	<86	<86	<86	<86
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<63	<63	<63	<63
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<63	<63	<63	<63
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<180	<180
6:2 Fluorotelomer sulfonate	<160	<160	<160	<160
9Cl-PF3ONS	<63	<63	<63	<63
DONA	<63	<63	<63	<63
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<63	<63	<63	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<160	<160
Perfluorobutane Sulfonic Acid	<63	<63	<63	<63
Perfluorobutanoic Acid	<160	**410**	**470**	<160
Perfluorodecane Sulfonic Acid	<63	<63	<63	<63
Perfluorodecanoic Acid	<63	<63	<63	<63
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<120	<120
Perfluorododecanoic Acid	<69	<69	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<63	<63	<63	<63
Perfluoroheptanoic Acid	<63	**64**	**250**	<63
Perfluorohexadecanoic Acid (PFHxDA)	<63	<63	<63	<63
Perfluorohexane Sulfonic Acid	<71	<71	<71	<71
Perfluorohexanoic Acid	<73	<73	**91**	<73
Perfluorononanesulfonic Acid	<63	<63	<63	<63
Perfluorononanoic Acid	<63	<63	<63	<63
Perfluorooctadecanoic Acid	<120	<120	<120	<120
Perfluorooctane Sulfonamide	<120	<120	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<63	<63	<63	<63
Perfluoropentanoic Acid	**560**	**1,600**	**3,100**	**72**
Perfluorotetradecanoic Acid	<91	<91	<91	<91
Perfluorotridecanoic Acid	<63	<63	<63	<63
Perfluoroundecanoic Acid	<63	<63	<63	<63
PFOA	<63	<63	<63	<63
PFOS	<63	<63	<63	<63

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
Location ID	**OW-33**	**PIW-1D**	**PIW-1S**	**PIW-3D**
Field Sample ID	**CAP1Q25-OW-33-010925**	**1Q25CAP-PIW-1D-012325**	**CAP4Q24-PIW-1S-100824**	**CAP1Q25-PIW-3D-011625**
Sample Date	**1/9/2025**	**1/23/2025**	**10/8/2024**	**1/16/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118273-1**	**320-118673-1**	**320-116104-1**	**320-118342-1**
Lab Sample ID	**320-118273-2**	**320-118673-2**	**320-116104-5**	**320-118342-5**
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<42	<84	<84
11Cl-PF3OUdS	<86	<43	<40	<86
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<63	<31	<58	<63
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<63	<31	<30	<63
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<53	<110	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<88	<180	<180
6:2 Fluorotelomer sulfonate	<160	<78	<310	<160
9Cl-PF3ONS	<63	<31	<30	<63
DONA	<63	<31	<50	<63
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<78	<160	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<54	<110	<110
N-methyl perfluoro-1-octanesulfonamide	<63	<31	<54	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<78	<150	<160
Perfluorobutane Sulfonic Acid	<63	<31	<25	<63
Perfluorobutanoic Acid	<160	**88**	<300	<160
Perfluorodecane Sulfonic Acid	<63	<31	<40	<63
Perfluorodecanoic Acid	<63	<31	<39	<63
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<61	<120	<120
Perfluorododecanoic Acid	<69	<34	<69	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<63	<31	<24	<63
Perfluoroheptanoic Acid	<63	<31	<31	<63
Perfluorohexadecanoic Acid (PFHxDA)	<63	<31	<110	<63
Perfluorohexane Sulfonic Acid	<71	<36	<71	<71
Perfluorohexanoic Acid	<73	<36	<73	<73
Perfluorononanesulfonic Acid	<63	<31	<46	<63
Perfluorononanoic Acid	<63	<31	<34	<63
Perfluorooctadecanoic Acid	<120	<59	<120	<120
Perfluorooctane Sulfonamide	<120	<61	<120	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<63	<31	<38	<63
Perfluoropentanoic Acid	**140**	**140**	<61	**250**
Perfluorotetradecanoic Acid	<91	<46	<91	<91
Perfluorotridecanoic Acid	<63	<31	<160	<63
Perfluoroundecanoic Acid	<63	<31	<140	<63
PFOA	<63	<31	<110	<63
PFOS	<63	<31	<68	<63

TABLE ATT1-12
GROUNDWATER OTHER PFAS 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-06**
Field Sample ID	**CAP1Q25-PIW-7D-010925**	**CAP1Q25-PIW-7S-011525**	**1Q25CAP-PW-04-012325**	**1Q25CAP-PW-06-012325**
Sample Date	**1/9/2025**	**1/15/2025**	**1/23/2025**	**1/23/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118273-1**	**320-118342-1**	**320-118673-1**	**320-118661-1**
Lab Sample ID	**320-118273-3**	**320-118342-3**	**320-118673-7**	**320-118661-5**
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<84	<42	<84
11Cl-PF3OUdS	<86	<86	<43	<86
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<63	<63	<31	<63
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<63	<63	<31	<63
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<110	<53	<110
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<180	<88	<180
6:2 Fluorotelomer sulfonate	<160	<160	<78	<160
9Cl-PF3ONS	<63	<63	<31	<63
DONA	<63	<63	<31	<63
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<78	<160
N-ethylperfluoro-1-octanesulfonamide	<110	<110	<54	<110
N-methyl perfluoro-1-octanesulfonamide	<63	<63	<31	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<78	<160
N-methyl perfluoro-1-octanesulfonamide	<63	<63	<31	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<160	<78	<160
Perfluorobutane Sulfonic Acid	<63	<63	<31	<63
Perfluorobutanoic Acid	**260**	<160	<78	<160
Perfluorodecane Sulfonic Acid	<63	<63	<31	<63
Perfluorodecanoic Acid	<63	<63	<31	<63
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<120	<61	<120
Perfluorododecanoic Acid	<69	<69	<34	<69
Perfluoroheptane Sulfonic Acid (PFHpS)	<63	<63	<31	<63
Perfluoroheptanoic Acid	**70**	<63	<31	<63
Perfluorohexadecanoic Acid (PFHxDA)	<63	<63	<31	<63
Perfluorohexane Sulfonic Acid	<71	<71	<36	<71
Perfluorohexanoic Acid	<73	<73	<36	<73
Perfluorononanesulfonic Acid	<63	<63	<31	<63
Perfluorononanoic Acid	<63	<63	<31	<63
Perfluorooctadecanoic Acid	<120	<120	<59	<120
Perfluorooctane Sulfonamide	<120	<120	<61	<120
Perfluoropentane Sulfonic Acid (PFPeS)	<63	<63	<31	<63
Perfluoropentanoic Acid	**1,500**	**580**	<31	<63
Perfluorotetradecanoic Acid	<91	<91	<46	<91
Perfluorotridecanoic Acid	<63	<63	<31	<63
Perfluoroundecanoic Acid	<63	<63	<31	<63
PFOA	<63	<63	<31	<63
PFOS	<63	<63	<31	<63

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

Water Bearing Unit[1]	Surficial Aquifer	Black Creek Aquifer	Black Creek Aquifer	Black Creek Aquifer
Location ID	**PW-07**	**PW-09**	**PZ-22**	**SMW-10**
Field Sample ID	**1Q25CAP-PW-07-012325**	**CAP1Q25-PW-09-011625**	**1Q25CAP-PZ-22-012825**	**CAP1Q25-SMW-10-011525**
Sample Date	**1/23/2025**	**1/16/2025**	**1/28/2025**	**1/15/2025**
QA/QC				
Sample Delivery Group (SDG)	**320-118673-1**	**320-118342-1**	**320-118667-1**	**320-118342-1**
Lab Sample ID	**320-118673-6**	**320-118342-4**	**320-118667-2**	**320-118342-1**
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<84	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<86	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<63	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<63	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<110	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<180	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<160	<5.0
9Cl-PF3ONS	<2.0	<2.0	<63	<2.0
DONA	<2.0	<2.0	<63	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<160	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<110	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<63	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<160	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<63	<2.0
Perfluorobutanoic Acid	**14**	<5.0	<160	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<63	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<63	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<120	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<69	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<63	<2.0
Perfluoroheptanoic Acid	**3.6**	<2.0	<63	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<63	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<71	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<73	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0	<63	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<63	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<120	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<120	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<63	<2.0
Perfluoropentanoic Acid	**9.3**	<2.0	**840**	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<91	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<63	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<63	<2.0
PFOA	**4.7**	<2.0	<63	<2.0
PFOS	<2.0	<2.0	<63	<2.0

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

Water Bearing Unit[1]	Surficial Aquifer	Black Creek Aquifer	--	--
Location ID	**SMW-11**	**SMW-12**	**EB**	**EB**
Field Sample ID	**CAP1Q25-SMW-11-011525**	**1Q25CAP-SMW-12-012425**	**1Q25CAP-EQBLK-BAILER-013025**	**1Q25CAP-EQBLK-BP-013025**
Sample Date	**1/15/2025**	**1/24/2025**	**1/30/2025**	**1/30/2025**
QA/QC			**Equipment Blank**	**Equipment Blank**
Sample Delivery Group (SDG)	**320-118342-1**	**320-118673-1**	**320-118664-1**	**320-118664-1**
Lab Sample ID	**320-118342-2**	**320-118673-5**	**320-118664-5**	**320-118664-4**
537 Mod (ng/L)				
10:2 Fluorotelomer sulfonate	<84	<42	<2.0	<2.0
11Cl-PF3OUdS	<86	<43	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<63	<31	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<63	<31	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<53	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<88	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<160	<78	<5.0	<5.0
9Cl-PF3ONS	<63	<31	<2.0	<2.0
DONA	<63	<31	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<78	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110	<54	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<63	<31	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<78	<5.0	<5.0
N-methyl perfluoro-1-octanesulfonamide	<63	<31	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<78	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<63	<31	<2.0	<2.0
Perfluorobutanoic Acid	<160	<78	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<63	<31	<2.0	<2.0
Perfluorodecanoic Acid	<63	<31	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<61	<2.0	<2.0
Perfluorododecanoic Acid	<69	<34	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<63	<31	<2.0	<2.0
Perfluoroheptanoic Acid	<63	<31	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<63	<31	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<71	<36	<2.0	<2.0
Perfluorohexanoic Acid	<73	<36	<2.0	<2.0
Perfluorononanesulfonic Acid	<63	<31	<2.0	<2.0
Perfluorononanoic Acid	<63	<31	<2.0	<2.0
Perfluorooctadecanoic Acid	<120	<59	<2.0	<2.0
Perfluorooctane Sulfonamide	<120	<61	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<63	<31	<2.0	<2.0
Perfluoropentanoic Acid	**72**	**87**	<2.0	<2.0
Perfluorotetradecanoic Acid	<91	<46	<2.0	<2.0
Perfluorotridecanoic Acid	<63	<31	<2.0	<2.0
Perfluoroundecanoic Acid	<63	<31	<2.0	<2.0
PFOA	**480**	<31	<2.0	<2.0
PFOS	<63	<31	<2.0	<2.0

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

Water Bearing Unit[1]	--	--	--
Location ID	EB	EB	EB
Field Sample ID	1Q25CAP-EQBLK-DV-013025	1Q25CAP-EQBLK-PP-013025	CAP1Q25-EQBLK-PP-020325
Sample Date	1/30/2025	1/30/2025	2/3/2025
QA/QC	Equipment Blank	Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-118664-1	320-118664-1	320-118759-1
Lab Sample ID	320-118664-3	320-118664-2	320-118759-2
537 Mod (ng/L)			
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorobutanoic Acid	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	<2.0	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	<2.0	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0
PFOA	<2.0	<2.0	<2.0
PFOS	<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.

B - Analyte detected in an associated blank

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.

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)	1,726	5.8	18	--
Program	CAP SW Sampling 1Q25	CAP SW Sampling 1Q25	CAP SW Sampling 1Q25	--
Location ID	CFR-MILE-76	WC-1	OUTFALL 002	STS DISCHARGE
Field Sample ID	CAP1Q25-CFR-RM-76-010725	CAP1Q25-WC-1-21-010825	CAP1Q25-OUTFALL-002-24-010825	--
Sample Date and Time[2]	01/07/25	01/08/25	01/08/25	--
Sample Delivery Group (SDG)	320-118153-1	320-118153-1	320-118154-1	--
Lab Sample ID	320-118153-6	320-118153-2	320-118154-1	--
Sample Type	Grab	Composite	Composite	--
Table 3+ Lab SOP Mass Discharge[6] (mg/s)				
HFPO-DA	ND	**0.04**	**0.01**	--
PFMOAA	ND	**0.12**	**2.4E-03**	--
PFO2HxA	ND	**0.06**	**4.0E-03**	--
PFO3OA	ND	**0.01**	**2.3E-03**	--
PFO4DA	ND	**2.0E-03**	ND	--
PFO5DA	ND	ND	ND	--
PMPA	ND	**0.07**	**0.01**	--
PEPA	ND	**0.02**	**1.6E-03**	--
PS Acid	ND	ND	ND	--
Hydro-PS Acid	ND	**2.0E-03**	ND	--
R-PSDA	ND	**0.01**	**0.01**	--
Hydrolyzed PSDA	ND	**0.05**	**0.06**	--
R-PSDCA	ND	ND	ND	--
NVHOS, Acid Form	ND	**1.4E-03**	ND	--
EVE Acid	ND	ND	ND	--
Hydro-EVE Acid	ND	**6.1E-04**	ND	--
R-EVE	ND	**0.01**	ND	--
PES	ND	ND	ND	--
PFECA B	ND	ND	ND	--
PFECA-G	ND	ND	ND	--
PFPrA	**0.64**	**0.09**	**0.04**	--
Total Attachment C Mass Discharge[7,8]	ND	**0.33**	**0.03**	--
Total Table 3+ Mass Discharge (17 compounds)[7,9]	ND	**0.33**	**0.03**	--
Total Table 3+ Mass Discharge (18 compounds)[7,10]	**0.64**	**0.41**	**0.06**	--
Total Table 3+ Mass Discharge (21 Compounds)[7]	**0.64**	**0.48**	**0.15**	--

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)	--	--	--	6.6E-03
Program	--	--	--	CAP SW Sampling 1Q25
Location ID	--	SEEP-A-EFF	SEEP-B-EFF	SEEP-C-EFF
Field Sample ID	--	--	--	CAP1Q25-SEEP-C-EFF-16-010825
Sample Date and Time[2]	--	--	--	01/08/25
Sample Delivery Group (SDG)	--	--	--	320-118153-1
Lab Sample ID	--	--	--	320-118153-1
Sample Type	--	--	--	--
Table 3+ Lab SOP Mass Discharge[6] (mg/s)				
HFPO-DA	8.2E-03	--	--	ND
PFMOAA	0.02	--	--	7.5E-06
PFO2HxA	0.01	--	--	1.3E-06
PFO3OA	2.2E-03	--	--	ND
PFO4DA	2.6E-04	--	--	ND
PFO5DA	ND	--	--	ND
PMPA	6.5E-03	--	--	1.7E-06
PEPA	2.2E-03	--	--	ND
PS Acid	ND	--	--	ND
Hydro-PS Acid	6.2E-05	--	--	ND
R-PSDA	5.6E-04	--	--	ND
Hydrolyzed PSDA	7.3E-04	--	--	ND
R-PSDCA	ND	--	--	ND
NVHOS, Acid Form	3.3E-04	--	--	ND
EVE Acid	ND	--	--	ND
Hydro-EVE Acid	5.3E-05	--	--	ND
R-EVE	3.6E-04	--	--	ND
PES	ND	--	--	ND
PFECA B	ND	--	--	ND
PFECA-G	ND	--	--	ND
PFPrA	ND	--	--	1.3E-05
Total Attachment C Mass Discharge[7,8]	0.05	--	--	1.04E-05
Total Table 3+ Mass Discharge (17 compounds)[7,9]	0.05	--	--	1.04E-05
Total Table 3+ Mass Discharge (18 compounds)[7,10]	0.07	--	--	2.31E-05
Total Table 3+ Mass Discharge (21 Compounds)[7]	0.07	--	--	2.31E-05

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[11]	Lock and Dam North	Outfall 003 Stream
Flow (MG)	--	5.0E-03	1.6E-03	0.54
Program	--	CAP SW Sampling 1Q25	CAP SW Sampling 1Q25	CAP SW Sampling 1Q25
Location ID	SEEP-D-EFF	Lock-Dam Seep	Lock-Dam North	OLDOF-1
Field Sample ID	--	CAP1Q25-LOCK-DAM-SEEP-010725	CAP1Q25-LOCK-DAM-NORTH-010725	CAP1Q25-OLDOF-1-8-010725
Sample Date and Time[2]	--	1/7/2025	01/07/25	01/07/25
Sample Delivery Group (SDG)	--	320-118154-1	320-118154-1	320-118153-1
Lab Sample ID	--	320-118154-3	320-118154-4	320-118153-5
Sample Type	--	Grab	Grab	Composite
Table 3+ Lab SOP Mass Discharge[6] (mg/s)	--			
HFPO-DA	--	1.5E-03	1.5E-04	4.2E-03
PFMOAA	--	7.5E-03	2.3E-04	2.2E-02
PFO2HxA	--	3.7E-03	1.9E-04	7.5E-03
PFO3OA	--	2.1E-03	3.7E-05	2.8E-03
PFO4DA	--	6.4E-04	9.4E-06	1.3E-03
PFO5DA	--	ND	ND	4.5E-04
PMPA	--	1.2E-03	1.9E-04	3.5E-03
PEPA	--	4.0E-04	6.2E-05	1.2E-03
PS Acid	--	ND	ND	ND
Hydro-PS Acid	--	3.5E-05	ND	2.0E-04
R-PSDA	--	1.3E-04	1.3E-05	4.0E-04
Hydrolyzed PSDA	--	1.0E-04	ND	5.9E-04
R-PSDCA	--	ND	ND	ND
NVHOS, Acid Form	--	1.0E-04	ND	3.1E-04
EVE Acid	--	ND	ND	ND
Hydro-EVE Acid	--	3.7E-05	ND	1.2E-04
R-EVE	--	4.2E-05	7.2E-06	1.8E-04
PES	--	ND	ND	ND
PFECA B	--	ND	ND	ND
PFECA-G	--	ND	ND	ND
PFPrA	--	2.9E-03	2.4E-04	3.1E-02
Total Attachment C Mass Discharge[7,8]	--	0.017	8.7E-04	4.2E-02
Total Table 3+ Mass Discharge (17 compounds)[7,9]	--	0.017	8.7E-04	4.2E-02
Total Table 3+ Mass Discharge (18 compounds)[7,10]	--	0.020	1.2E-03	7.3E-02
Total Table 3+ Mass Discharge (21 Compounds)[7]	--	0.020	1.2E-03	7.5E-02

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

Pathway Number[1]	**9**	**Sum of All Pathways**
Pathway Name	**Georgia Branch Creek**	
Flow (MG)	**3.0**	
Program	**CAP SW Sampling 1Q25**	
Location ID	**GBC-1**	
Field Sample ID	**CAP1Q25-GBC-1-010725**	
Sample Date and Time[2]	**01/07/25**	
Sample Delivery Group (SDG)	**320-118153-1**	
Lab Sample ID	**320-118153-7**	
Sample Type	**Grab**	
Table 3+ Lab SOP Mass Discharge[6] (mg/s)		
HFPO-DA	**0.04**	**0.11**
PFMOAA	**7.3E-03**	**0.18**
PFO2HxA	**0.04**	**0.13**
PFO3OA	**5.0E-03**	**0.03**
PFO4DA	**2.8E-03**	**7.1E-03**
PFO5DA	**3.2E-04**	**7.6E-04**
PMPA	**0.07**	**0.16**
PEPA	**0.02**	**0.04**
PS Acid	ND	ND
Hydro-PS Acid	**5.5E-03**	**7.9E-03**
R-PSDA	**0.01**	**0.03**
Hydrolyzed PSDA	ND	**0.11**
R-PSDCA	ND	ND
NVHOS, Acid Form	ND	**2.1E-03**
EVE Acid	ND	ND
Hydro-EVE Acid	**4.0E-04**	**1.2E-03**
R-EVE	**4.1E-03**	**0.01**
PES	ND	ND
PFECA B	ND	ND
PFECA-G	ND	ND
PFPrA	**0.05**	ND
Total Attachment C Mass Discharge[7,8]	**0.18**	**0.66**
Total Table 3+ Mass Discharge (17 compounds)[7,9]	**0.18**	**0.66**
Total Table 3+ Mass Discharge (18 compounds)[7,10]	**0.24**	**1.51**
Total Table 3+ Mass Discharge (21 Compounds)[7]	**0.25**	**1.69**

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.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.
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.

Geosyntec consultants

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

Attachment ATT2

Direct Aerial Deposition on Cape Fear River

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

Air Loading ($\mu g/m^2$)	Air Loading (ng/m^2)	Time (year)	Time (hour)	Net Hourly Deposition Rate ($ng/m^2/hr$)
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:

$\mu g/m^2$: micrograms per meter square.
ng /L: nanograms per liter.
$ng/m^2/hr$: 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	
	26	2,052,924	394,531	
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	
	26	2,053,081	393,869	
614517	13	2,053,209	394,897	76***
	14	2,053,130	394,878	
	15	2,053,032	394,854	
	16	2,052,974	394,840	
	17	2,052,961	394,837	
610240	31	2,053,769	390,652	60***
	32	2,053,729	390,645	
	33	2,053,643	390,630	
	34	2,053,602	390,623	
	35	2,053,572	390,618	
612082	27	2,053,560	392,482	72
	28	2,053,430	392,455	
	29	2,053,370	392,443	
	30	2,053,322	392,433	
606667	1271	2,054,059	387,249	101
	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	
	1199	2,053,600	388,861	
606667	1271	2,054,059	387,249	101
	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 Discharge[1] (cfs)	USGS Reported Average Gage Height[1] (ft)	USGS Reported Total Precipitation[1,2] (inches)	USGS Reported Average Discharge (L/s)	Measured River Width (ft)	Estimated River Depth (ft)	Z Value[3]	Calculated Total Cross Sectional Area (ft^2)	Calculated River Velocity (ft/s)
1/7/2025	2693.75	2.45	0	76,279	323	19	2	5,412	0.5
1/8/2025	2832.50	2.53	0	80,207	323	19	3	5,068	0.6
1/9/2025	2976.04	2.60	0	84,272	323	19	3	5,084	0.6
								Average River Velocity:	**0.5**

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

ft^2: 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-F	SEEP-G	SEEP-G	SEEP-H	SEEP-I	SEEP-J
Field Sample ID	SEEP-E-031824	SEEP-F-031824	SEEP-G-031824	SEEP-G-031824-D	SEEP-H-031824	SEEP-I-031824	SEEP-J-031824
Sample Date	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024
QA/QC				DUP			
Sample Delivery Group (SDG)	320-110631-1	320-110631-1	320-110631-1	320-110631-1	320-110631-1	320-110631-1	320-110631-1
Lab Sample ID	320-110631-1	320-110631-2	320-110631-3	320-110631-4	320-110631-5	320-110631-6	320-110631-7
Table 3+ SOP (ng/L)							
HFPO-DA	**740**	**800**	**790**	**780**	**600**	**650**	**370**
PFMOAA	**270**	**240**	**150**	**140**	**91**	**110**	**55**
PFO2HxA	**540**	**640**	**590**	**530**	**270**	**360**	**130**
PFO3OA	**38**	**90**	**64**	**52**	**33**	**27**	**13**
PFO4DA	**18**	**10**	**6**	**3.7**	**3**	**2.7**	**3**
PFO5DA	**8.7**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	**1,500**	**1,500**	**1,300**	**1,300**	**870**	**950**	**600**
PEPA	**570**	**510**	**510**	**520**	**350**	**440**	**180**
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	**44**	**19**	**12**	**12**	**16**	**12**	**5.2**
R-PSDA	**300**	**330**	**210**	**230**	**75**	**120**	**32**
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
NVHOS	**8.8**	**7.3**	**6.5**	**4.6**	**5.1**	**6.7**	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	**3.4**	**2.3**	<2.0	<2.0	<2.0	<2.0	<2.0
R-EVE	**110**	**130**	**86**	**87**	**34**	**48**	**15**
PES	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFPrA	**1,000**	**1,200**	**930**	**970**	**640**	**730**	**500**
Total Attachment C (ng/L)[1,2]	**3,700**	**3,800**	**3,400**	**3,300**	**2,200**	**2,600**	**1,400**
Total Table 3+ (17 compounds) (ng/L)[2,3]	**3,700**	**3,800**	**3,400**	**3,300**	**2,200**	**2,600**	**1,400**
Total Table 3+ (18 Compounds) (ng/L)[2,4]	**4,700**	**5,000**	**4,400**	**4,300**	**2,900**	**3,300**	**1,900**
Total Table 3+ (21 Compounds) (ng/L)[2]	**5,200**	**5,500**	**4,700**	**4,600**	**3,000**	**3,500**	**1,900**
Ratio of Total Attachment C to HFPO-DA	**5.0**	**4.8**	**4.3**	**4.2**	**3.7**	**4.0**	**3.8**
Ratio of Total Table 3+ (17 compounds) to HFPO-DA	**5.0**	**4.8**	**4.3**	**4.2**	**3.7**	**4.0**	**3.8**
Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	**6.4**	**6.3**	**5.6**	**5.5**	**4.8**	**5.1**	**5.1**
Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	**7.0**	**6.9**	**5.9**	**5.9**	**5.0**	**5.4**	**5.1**
Average Ratio of Total Attachment C to HFPO-DA	**5.05**						
Average Ratio of Total Table 3+ (17 compounds) to HFPO-DA	**5.05**						
Average Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	**6.61**						
Average Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	**6.99**						

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

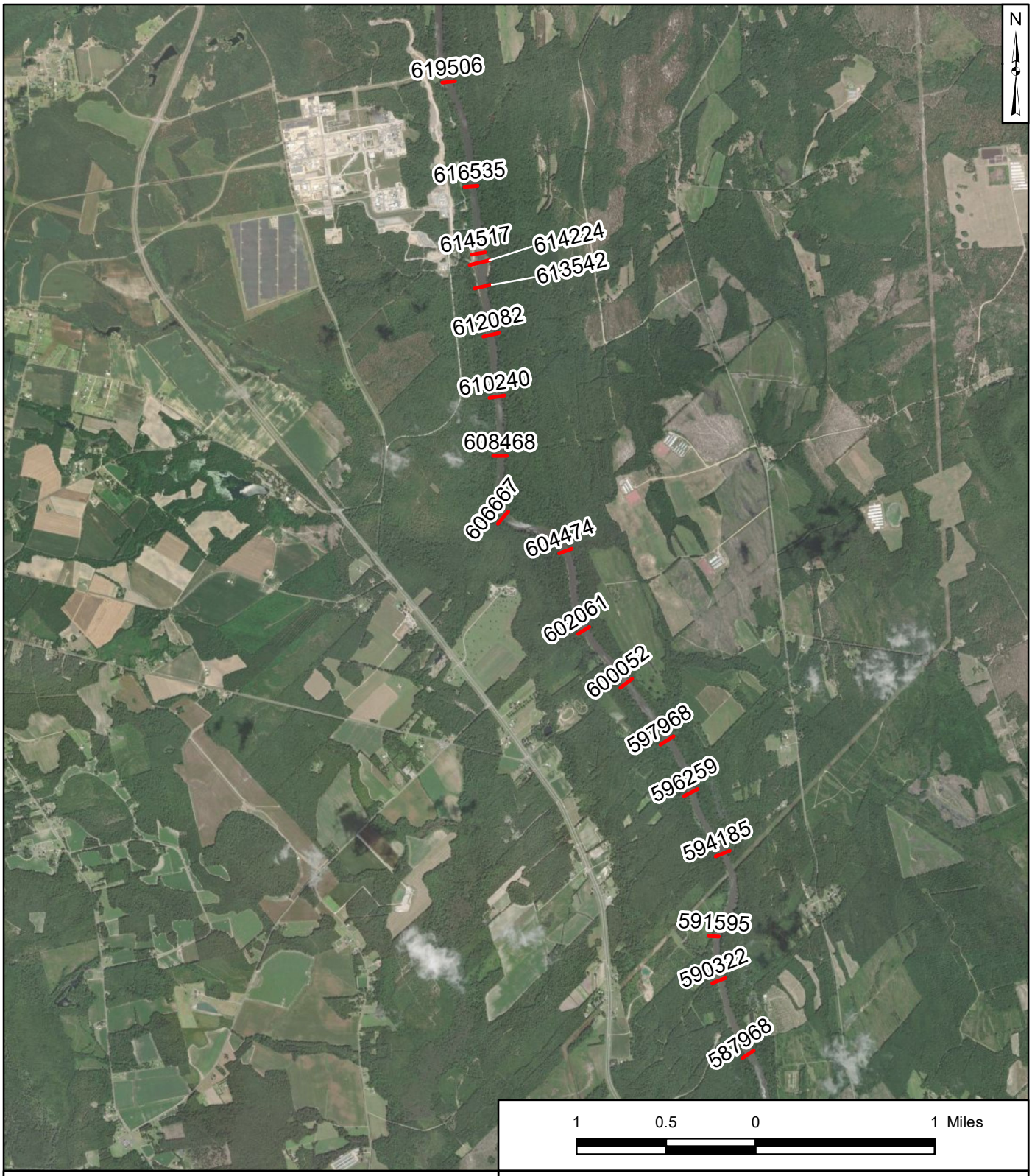
Location ID	SEEP-K	SEEP-L	SEEP-M	SEEP-N	SEEP-O
Field Sample ID	SEEP-K-031824	SEEP-L-031824	SEEP-M-031824	SEEP-N-031824	SEEP-O-031824
Sample Date	3/18/2024	3/18/2024	3/18/2024	3/18/2024	3/18/2024
QA/QC					
Sample Delivery Group (SDG)	320-110620-1	320-110620-1	320-110620-1	320-110620-1	320-110620-1
Lab Sample ID	320-110620-1	320-110620-2	320-110620-3	320-110620-4	320-110620-5
Table 3+ SOP (ng/L)					
HFPO-DA	**340**	**330**	**650**	**280**	**270**
PFMOAA	**140**	**98**	**110**	**360**	**200**
PFO2HxA	**230**	**270**	**340**	**330**	**200**
PFO3OA	**27**	**22**	**23**	**35**	**12**
PFO4DA	**5**	**4**	**3**	**4.5**	**2.3**
PFO5DA	<2.0	<2.0	<2.0	<2.0	<2.0
PMPA	**950**	**870**	**1,200**	**680**	**1,100**
PEPA	**320**	**290**	**440**	**230**	**310**
PS Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-PS Acid	**23**	**24**	**15**	**60**	**23**
R-PSDA	**61**	**83**	**50**	**100**	**110**
Hydrolyzed PSDA	<2.0	<2.0	<2.0	<2.0	<2.0
R-PSDCA	<3.0	<3.0	<3.0	<3.0	<3.0
NVHOS	**4.5**	**7.9**	<3.0	**11**	<3.0
EVE Acid	<2.0	<2.0	<2.0	<2.0	<2.0
Hydro-EVE Acid	<2.0	<2.0	<2.0	**2.8**	<2.0
R-EVE	**21**	**24**	**16**	**24**	**36**
PES	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA B	<2.0	<2.0	<2.0	<2.0	<2.0
PFECA-G	<2.0	<2.0	<2.0	<2.0	<2.0
PFPrA	**550**	**650**	**670**	**540**	**800**
Total Attachment C (ng/L)[1,2]	**2,000**	**1,900**	**2,800**	**2,000**	**2,100**
Total Table 3+ (17 compounds) (ng/L)[2,3]	**2,000**	**1,900**	**2,800**	**2,000**	**2,100**
Total Table 3+ (18 Compounds) (ng/L)[2,4]	**2,600**	**2,600**	**3,500**	**2,500**	**2,900**
Total Table 3+ (21 Compounds) (ng/L)[2]	**2,700**	**2,700**	**3,500**	**2,700**	**3,100**
Ratio of Total Attachment C to HFPO-DA	**5.9**	**5.8**	**4.3**	**7.1**	**7.8**
Ratio of Total Table 3+ (17 compounds) to HFPO-DA	**5.9**	**5.8**	**4.3**	**7.1**	**7.8**
Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	**7.6**	**7.9**	**5.4**	**8.9**	**10.7**
Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	**7.9**	**8.2**	**5.4**	**9.6**	**11.5**
Average Ratio of Total Attachment C to HFPO-DA	**5.1**				
Average Ratio of Total Table 3+ (17 compounds) to HFPO-DA	**5.05**				
Average Ratio of Total Table 3+ (18 Compounds) to HFPO-DA	**6.61**				
Average Ratio of Total Table 3+ (21 Compounds) to HFPO-DA	**6.99**				

Notes:
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.
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.

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	0.5	600.57	1.50	2.4	0.00045
Up River Section 1	160	80	18.3	9.1	13.7	490	98.59	48,300	0.5	600.57	0.82	0.5	0.00018
Up River Section 2	80	40	9.1	4.6	6.8	909	98.59	89,570	0.5	600.57	1.51	0.9	0.00017
Down River Section 1	160	80	18.3	9.1	13.7	586	98.59	57,813	0.5	600.57	0.98	0.8	0.00022
Down River Section 2	80	40	9.1	4.6	6.8	565	98.59	55,672	0.5	600.57	0.94	0.4	0.00011
											Total HFPO-DA:		**0.0011**
											Total Attachment C[5]:		**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 7 - 9, 2025, 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.
$\mu g/m^2/yr$: micrograms per meter square per year
ft/s: feet per second
hr: hours
m/hr: meters per hour
m: meter
m^2: meter square
mg/s: milligrams per second
mg: milligrams
$ng/m^2/hr$: 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

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

Cape Fear River Cross Sections Locations

Chemours Fayetteville Works, North Carolina

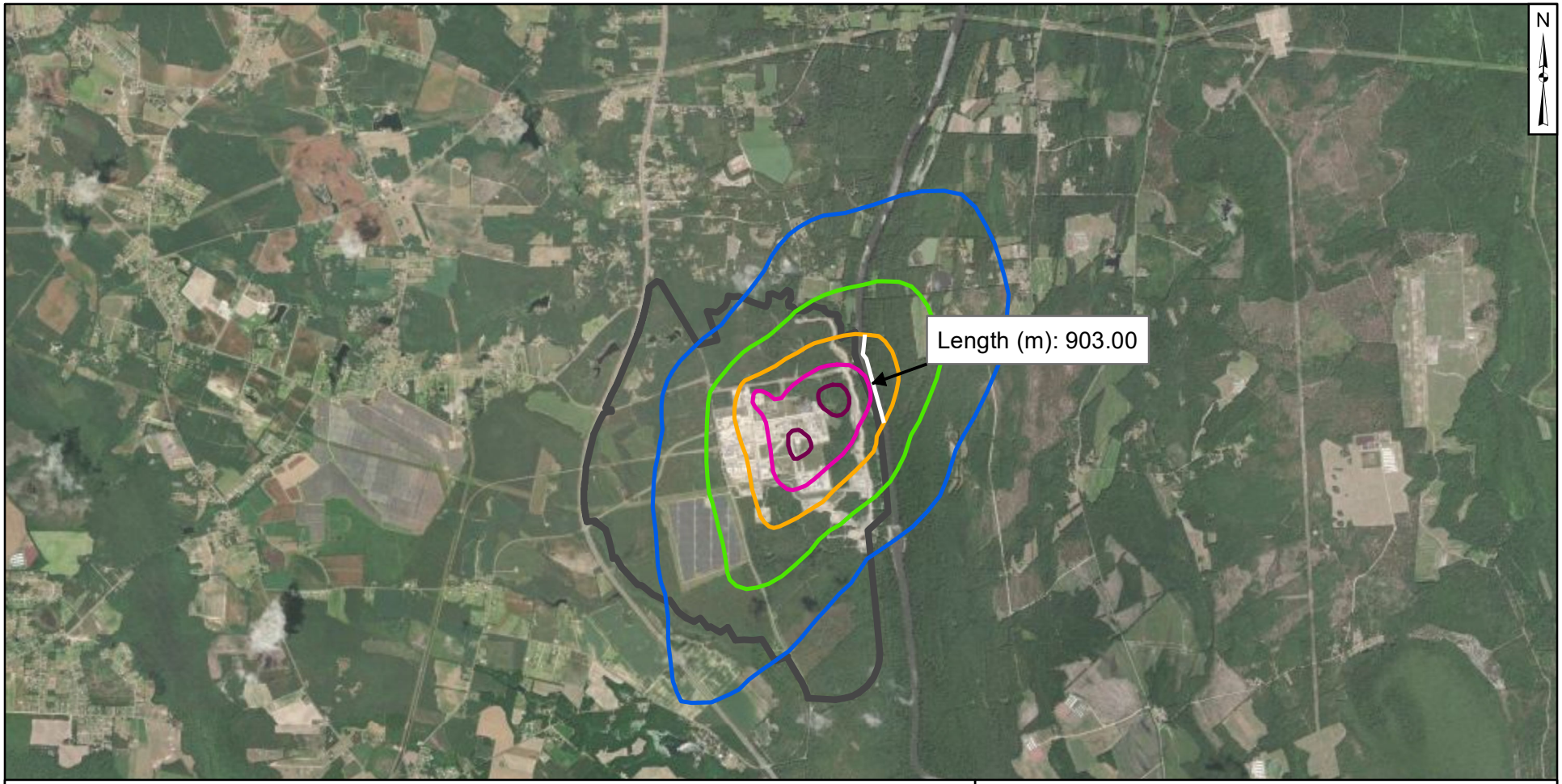
Geosyntec consultants

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

Raleigh | June 2025

Figure

ATT2-1



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
µg / m^2/ 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

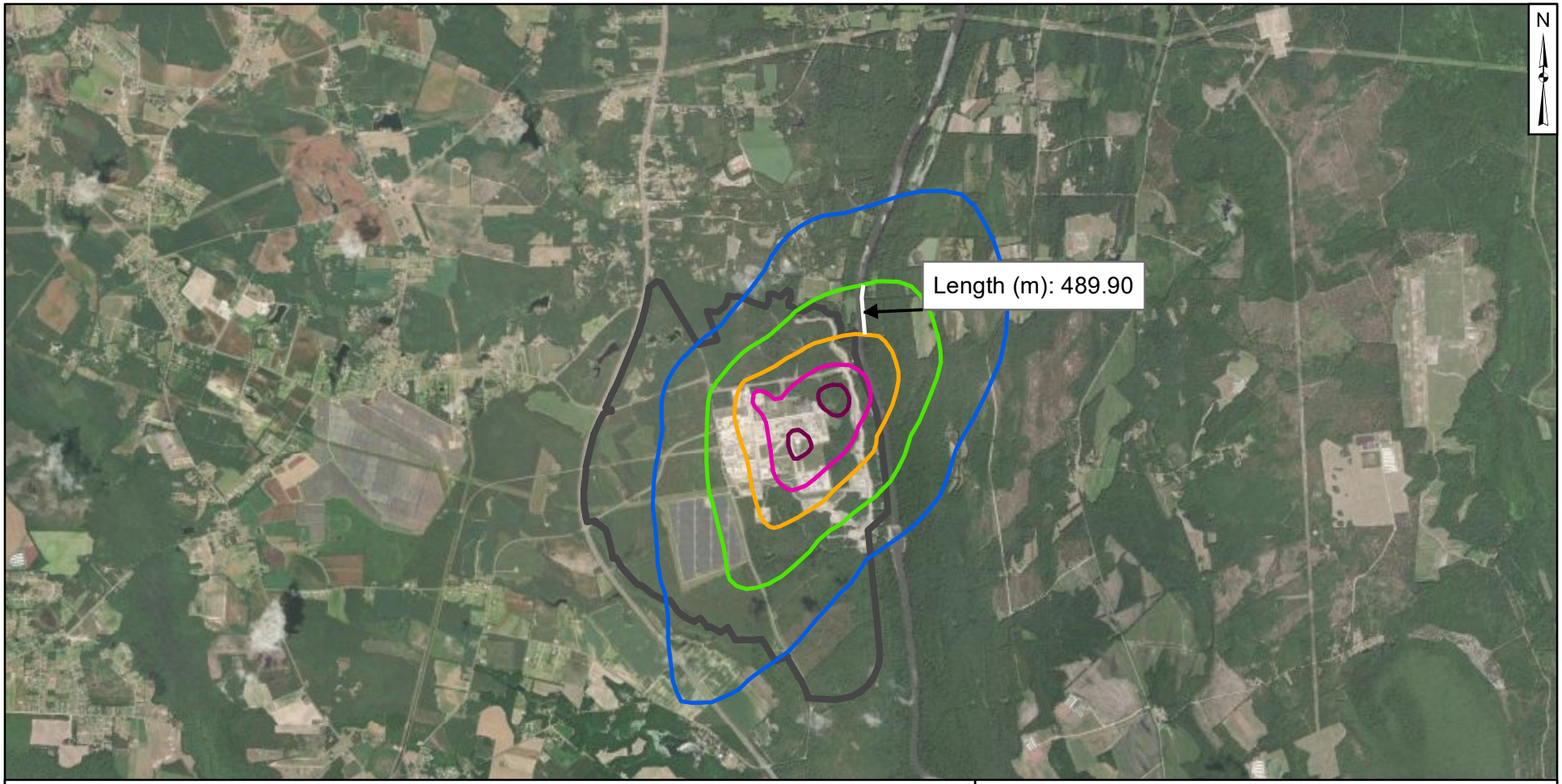
Geosyntec consultants

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

Figure
ATT2-2

Raleigh | June 2025

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
µg / m^2/ 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

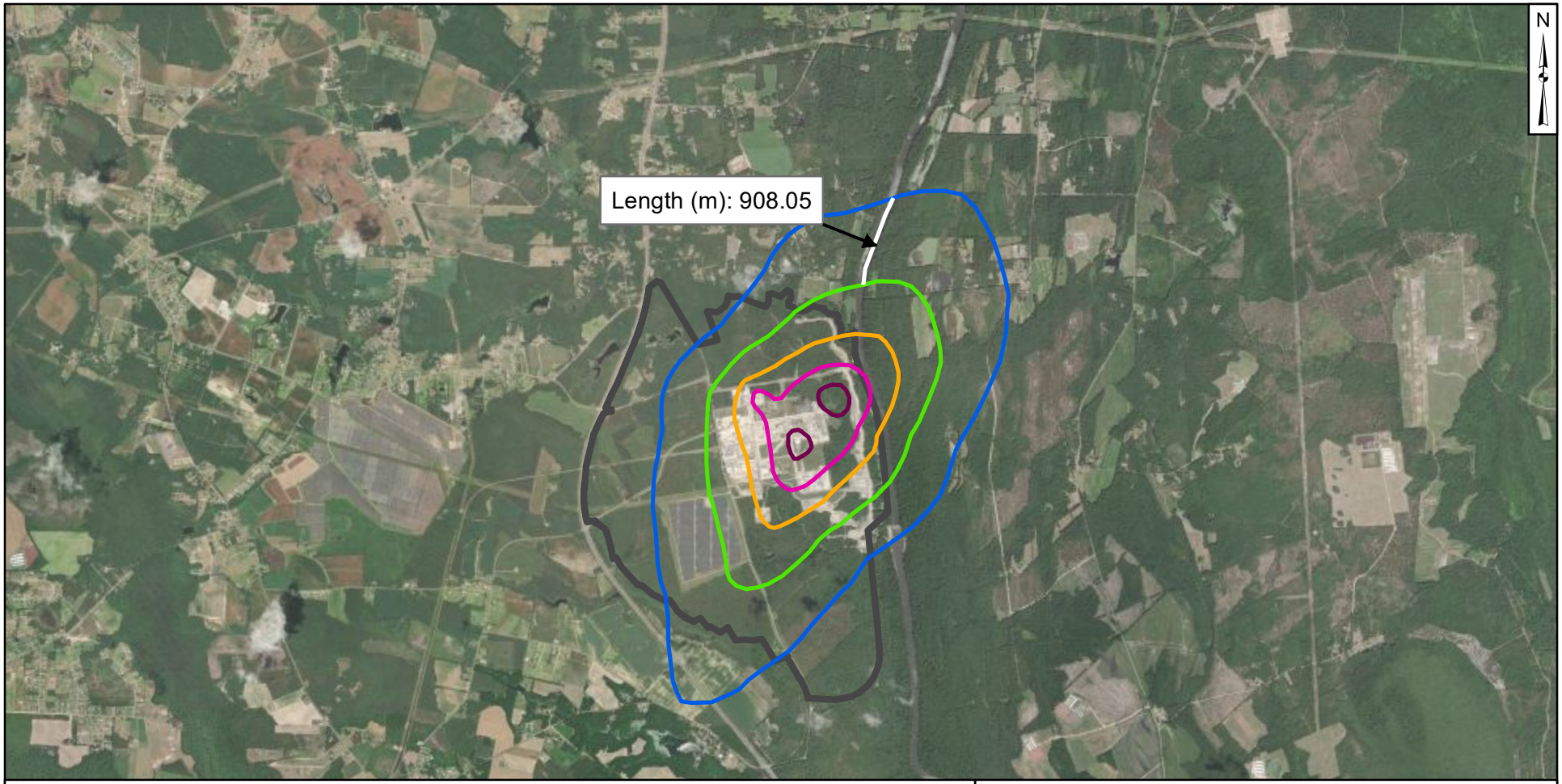
Geosyntec consultants

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

Raleigh | June 2025

Figure
ATT2-3

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
µg / m^2/ 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

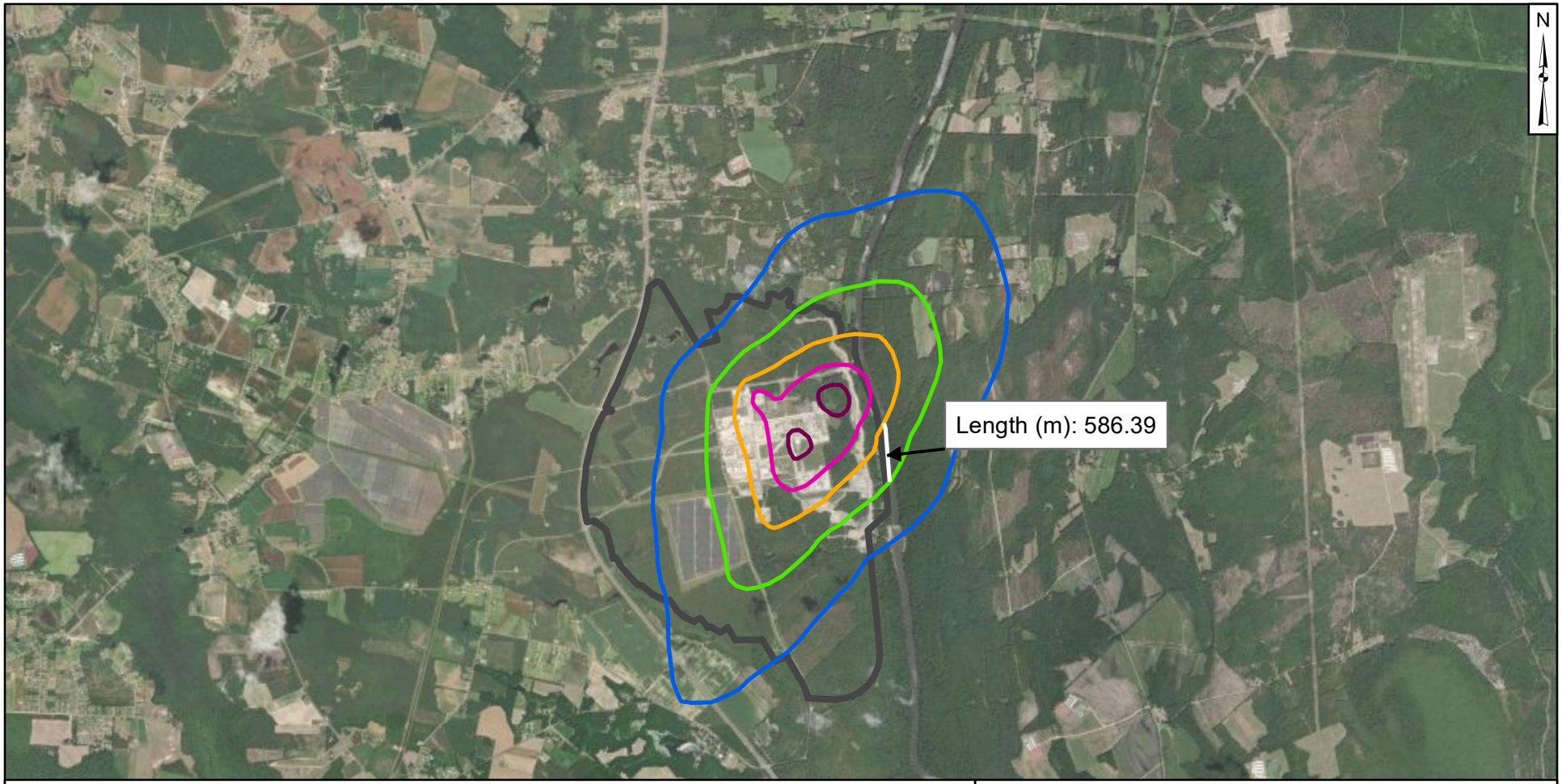
Geosyntec consultants

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

Raleigh | June 2025

Figure
ATT2-4

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
µg / m^2/ 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

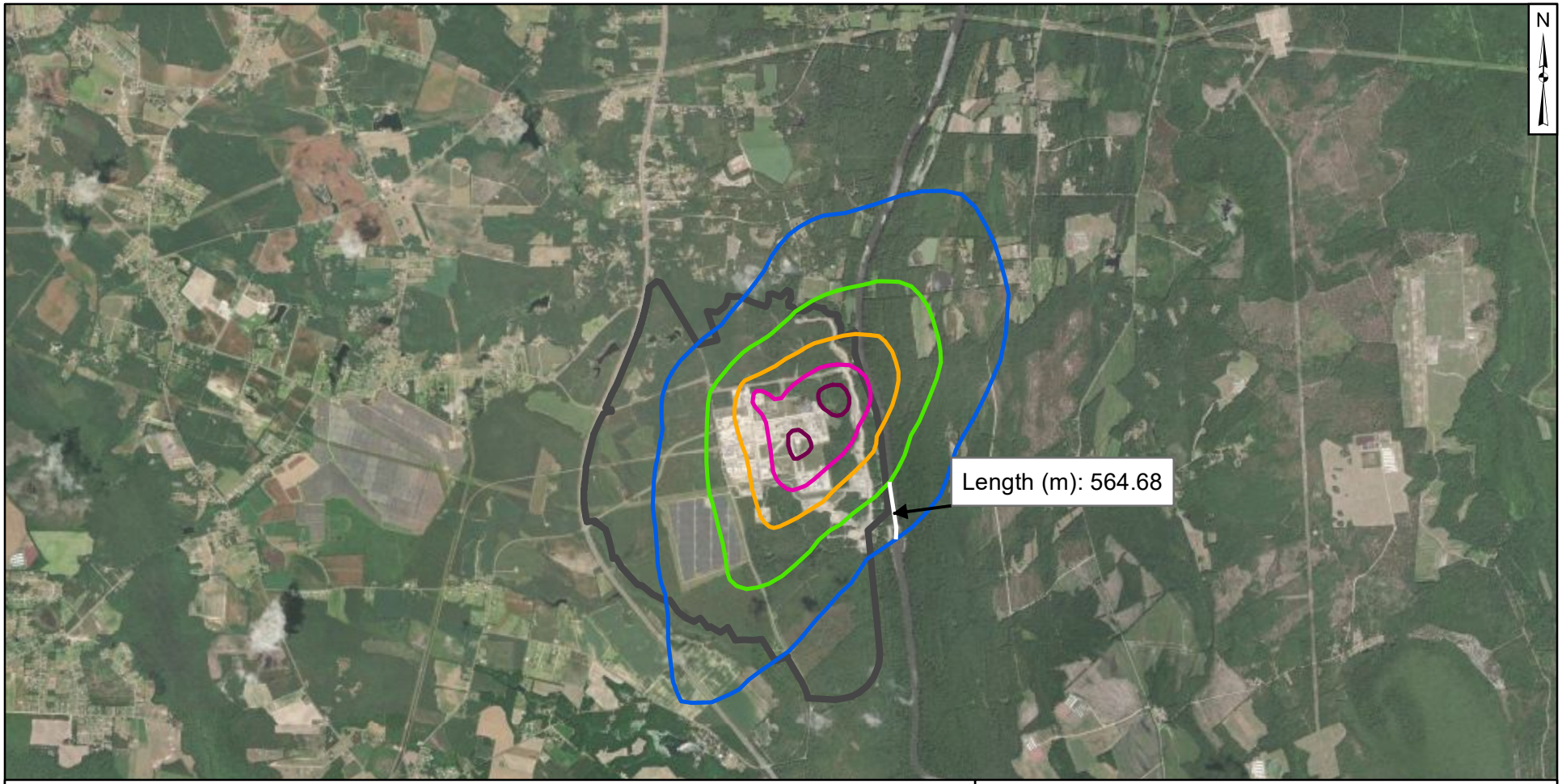
Geosyntec consultants

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

Raleigh | June 2025

Figure
ATT2-5

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



Legend

Site Boundary

Modeled Deposition Contours, October 2018 Scenario

- 40 µg/m^2/yr
- 80 µg/m^2/yr
- 160 µg/m^2/yr
- 320 µg/m^2/yr
- 640 µg/m^2/yr

Notes:
µg / m^2/ 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

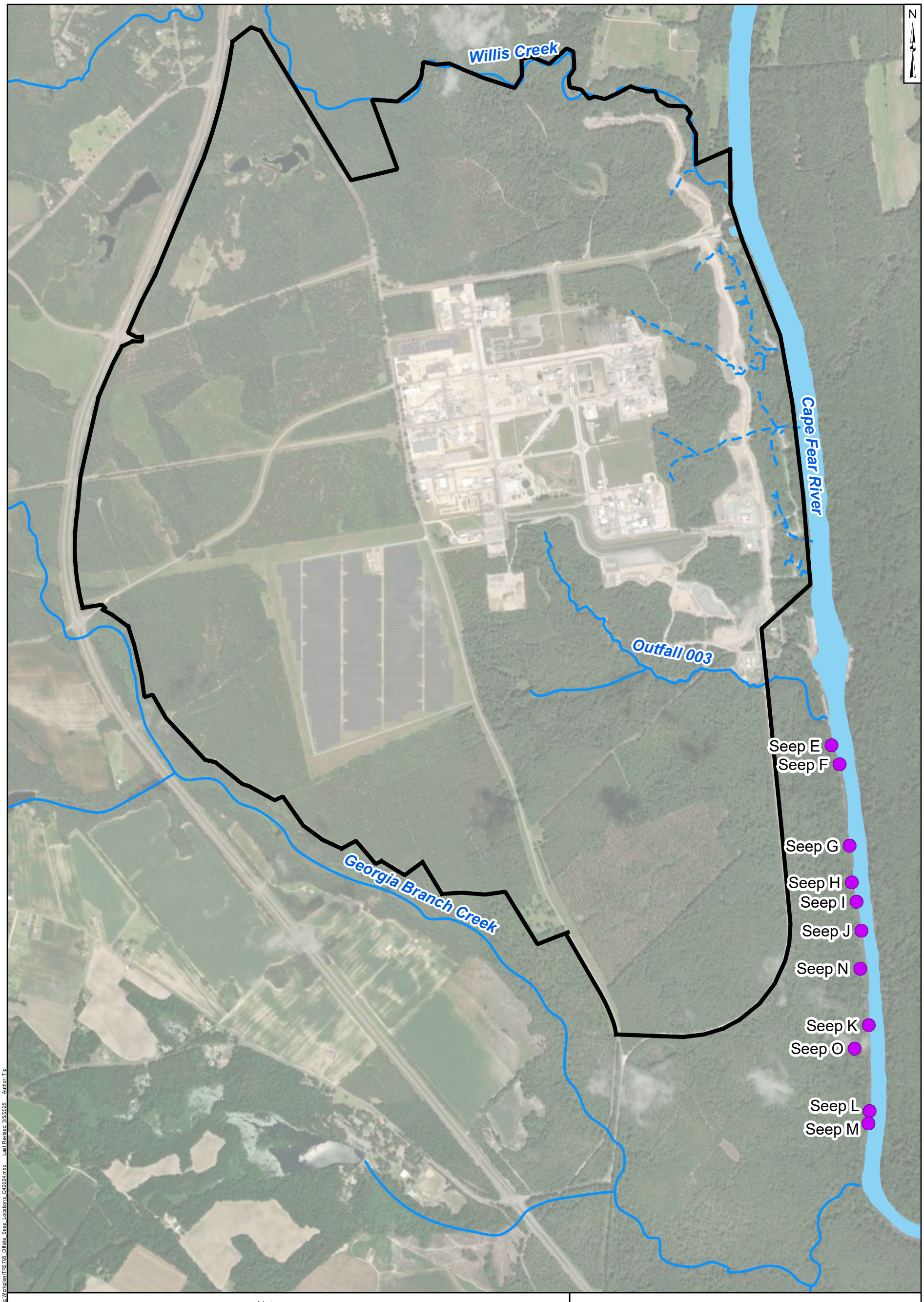
Geosyntec consultants

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

Raleigh | June 2025

Figure
ATT2-6

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



Legend

- Offsite Seep Location South of Outfall 003
- Observed Seep
- Nearby Tributary
- Site Boundary

Notes:
1. Seep E to O 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

1,000 500 0 1,000 Feet

Offsite Seep Locations South of Outfall 003

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | June 2025

Figure
ATT2-7

Path: \\raleigh-01\data\PR\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_Offsite_Seep_Locations_Q42024.mxd Last Revised: 3/5/2025 Author: Tlp

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

Geosyntec consultants

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

Attachment ATT3
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 Plan[1] (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).

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

where,

h = the Black Creek Aquifer thickness [ft];

A = the cross-sectional area of the Black Creek Aquifer [ft^2]; 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):

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 A6 in Appendix A and in Table ATT1-12 in Attachment ATT1.

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.

Sensitivity Assessment

As described in Section 5.1 of Appendix A, the mass discharge calculations only accounted for mass discharge from the Black Creek Aquifer and did not include mass discharge from the Floodplain Deposits. As a result, a sensitivity assessment was performed on the mass discharge from the Floodplains Deposits using the data collected in Q4 2024. The methodology was the same

as the one used to estimate the mass discharge from the Black Creek Aquifer (see section above) with the following adjustments:

- The hydraulic conductivity of the Floodplain Deposits was assumed to be 3.2 x 10^{-4} centimeters per second (cm/s).
- The cross-sectional area from Segment #8 was grouped with Segment #7 because there are no wells in Segment #8 that are screened above the Black Creek Aquifer.
- No mass discharge was calculated from Segment #9 because a cross-sectional area of Floodplain Deposits was not interpreted within Segment #9 and there are no wells in this segment that are screened above the Black Creek Aquifer.

Supporting data for the sensitivity assessment are provided in Table ATT3-3. A detailed discussion of the results is provided in Section 5.1 of Appendix A. The results from the sensitivity assessment show that the mass discharge from the Floodplain Deposits continues to not have a meaningful impact to the results of the mass loading model.

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.

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 GROUDWATER PATHWAY SUPPORTING DATA
Chemours Fayetteville Works, North Carolina

											Total Attachment C[5]		Total Table 3+ (17 Compounds)[6]		Total Table 3+ (18 Compounds)[7]		Total Table 3+ (21 Compounds)	
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)**	**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	1/23/2025	1,150	13,400	11.7	OW-14	-1.06	305.47	0.0035	1.71E-04	39,000	0.0087	39,000	0.0087	49,000	0.0110	50,000	0.0112
2	PIW-3D	1/16/2025	873	11,010	12.6	OW-44	-0.72	351.79	0.0020	1.71E-04	75,000	0.0082	75,000	0.0082	94,000	0.0102	96,000	0.0105
3	LTW-02	1/21/2025	875	5,560	6.4	OW-45	-0.07	399.66	0.0002	1.02E-04	95,000	0.0003	96,000	0.0003	120,000	0.0003	120,000	0.0003
4	LTW-03	1/29/2025	729	2,800	3.9	OW-46	-1.28	510.17	0.0025	1.02E-04	120,000	0.0025	130,000	0.0027	170,000	0.0035	180,000	0.0037
5	PZ-22	1/28/2025	656	15,200	23.2	OW-22	-0.26	370.47	0.0007	3.28E-04	150,000	0.0149	150,000	0.0149	220,000	0.0219	220,000	0.0219
6	PIW-7D	1/9/2025	524	16,000	30.5	OW-48	0.19	331.98	0	3.28E-04	190,000	0	190,000	0	260,000	0	270,000	0
7	LTW-05	1/27/2025	672	11,800	19.4	OW-25	-0.34	398.47	0.0009	1.28E-04	220,000	0.0089	220,000	0.0089	330,000	0.0133	340,000	0.0137
8	OW-28	1/9/2025	594	15,500	26.0	OW-27	-0.18	216.60	0.0008	2.59E-04	15,000	0.0014	15,000	0.0014	19,000	0.0018	20,000	0.0019
9	OW-33	1/9/2025	1607	46,300	28.8	OW-30	-0.21	297.99	0	2.59E-04	27,000	0	27,000	0	34,000	0	35,000	0
										Total	**--**	**0.0513**	**--**	**0.0515**	**--**	**0.0701**	**--**	**0.0715**

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 14, 2025 (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 Perfluorohepthanoic 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
ft^2 - square feet
mg/s - milligrams per second
ng/L - nanograms per liter

TABLE ATT3-2
JANUARY 2025 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	0.0035	1.71E-04	7.92E-03	5,119
2	11,010	0.0020	1.71E-04	3.84E-03	2,485
3	5,560	0.0002	1.02E-04	9.90E-05	64
4	2,800	0.0025	1.02E-04	7.22E-04	467
5	15,200	0.0007	3.28E-04	3.51E-03	2,268
6	16,000	0	3.28E-04	0	0
7	11,800	0.0009	1.28E-04	1.28E-03	830
8	15,500	0.0008	2.59E-04	3.33E-03	2,152
9	46,300	0	2.59E-04	0.008457286	5,466
				0.029	**18,851**

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 14, 2025 (Figure ATT3-3).

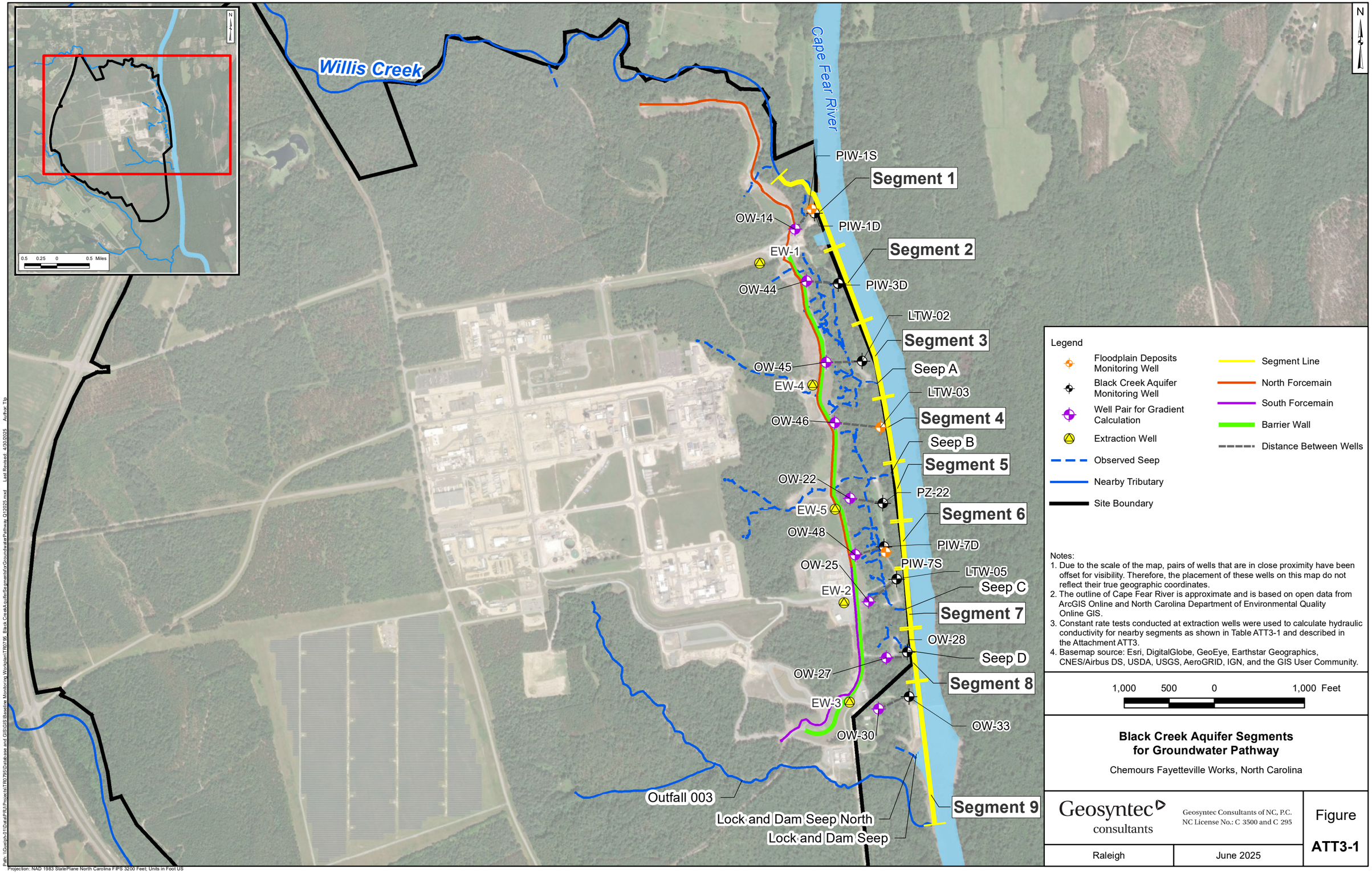
ft - feet

ft^2 - square feet

ft/sec - feet per second

ft^3/sec - cubic feet per second

gal/day - gallons per day



Legend

- Floodplain Deposits Monitoring Well
- Black Creek Aquifer Monitoring Well
- Well Pair for Gradient Calculation
- Extraction Well
- Observed Seep
- Nearby Tributary
- Site Boundary
- Segment Line
- North Forcemain
- South Forcemain
- Barrier Wall
- Distance Between Wells

Notes:

1. Due to the scale of the map, pairs of wells that are in close proximity have been offset for visibility. Therefore, the placement of these wells on this map do not reflect their true geographic coordinates.
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.
3. Constant rate tests conducted at extraction wells were used to calculate hydraulic conductivity for nearby segments as shown in Table ATT3-1 and described in the Attachment ATT3.
4. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

1,000 500 0 1,000 Feet

Black Creek Aquifer Segments for Groundwater Pathway

Chemours Fayetteville Works, North Carolina

Geosyntec consultants

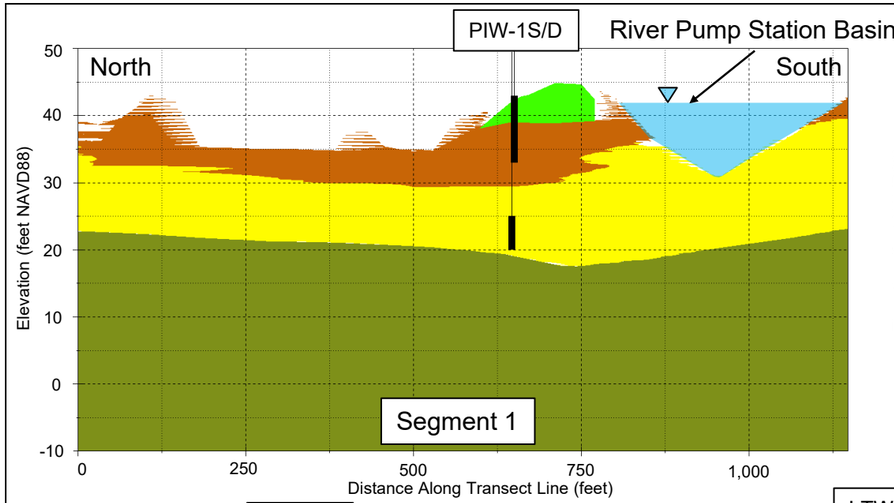
Geosyntec Consultants of NC, P.C.
NC License No.: C 3500 and C 295

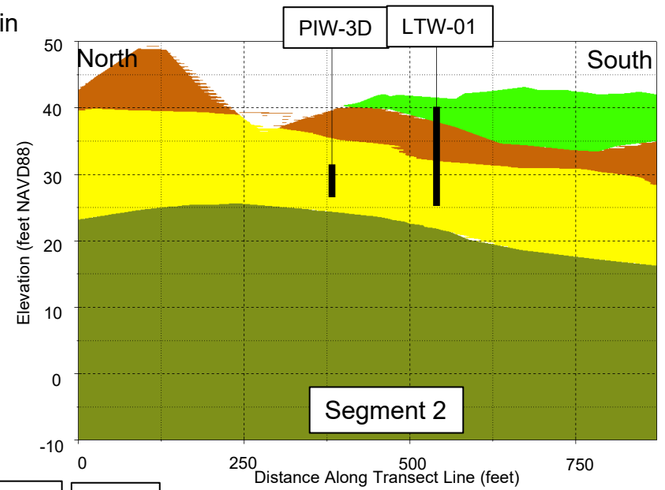
Raleigh | June 2025

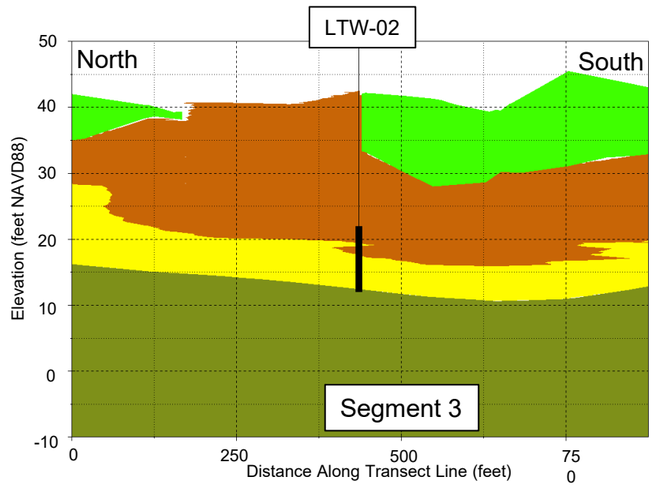
Figure **ATT3-1**

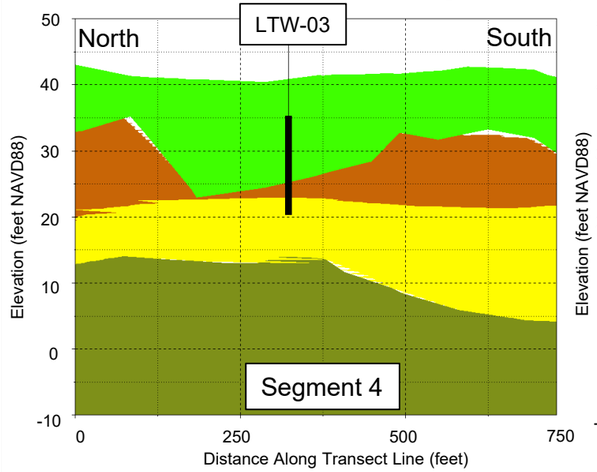
Path: \\Geliph-01\Data\PBU\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795 Black Creek Aquifer Segments for Groundwater Pathway Q12025.mxd Last Revised: 4/30/2025 Author: Tip

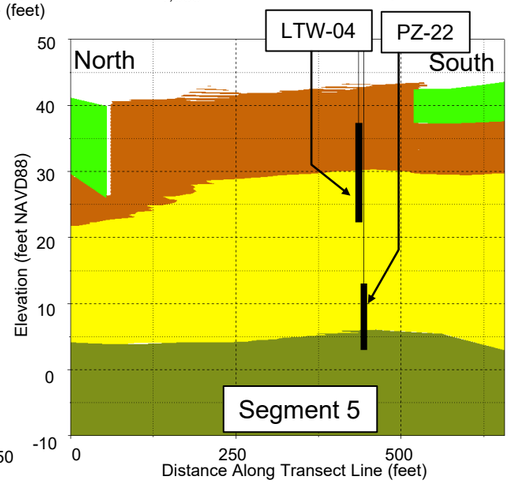
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US

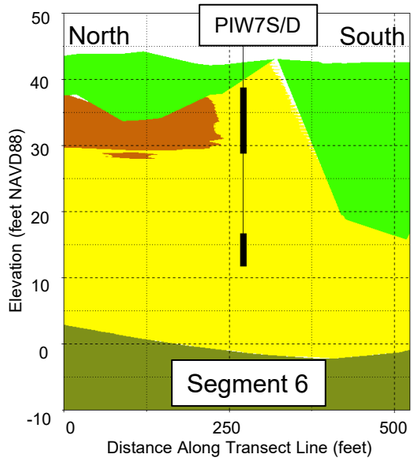


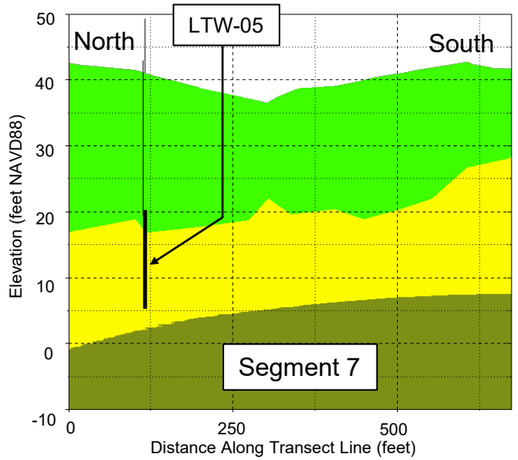


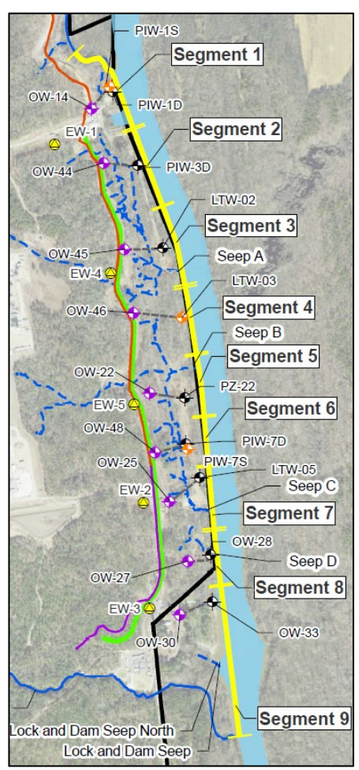


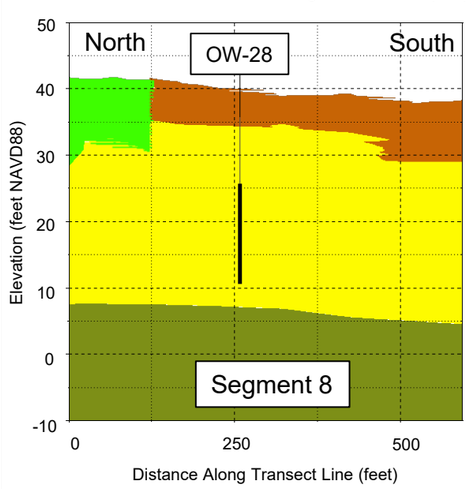


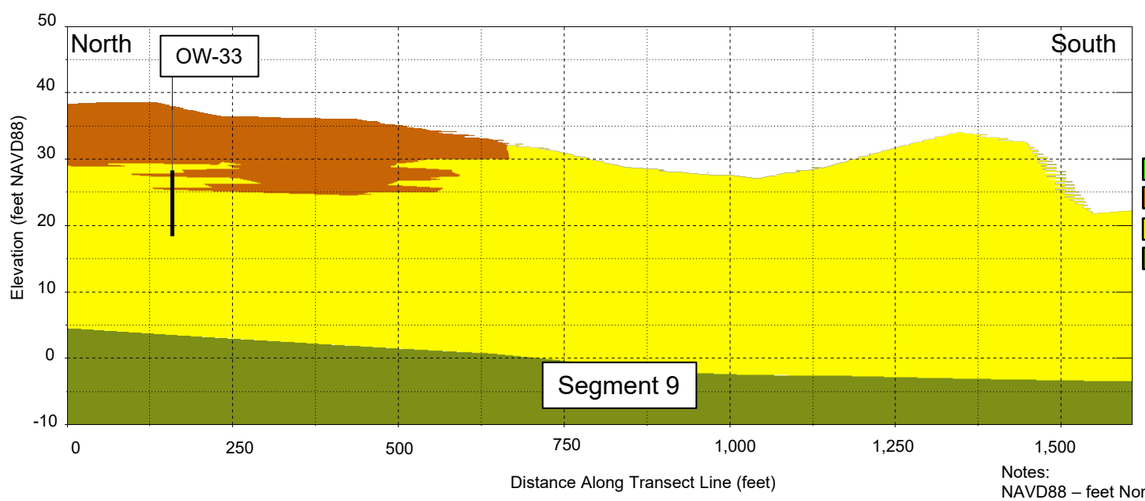












Legend

Well screen(1)

Units

- Floodplain Deposits
- Black Creek Confining Unit
- Black Creek Aquifer
- Upper Cape Fear Confining Unit

Notes:
NAVD88 – feet North America Datum of 1988
Vertical Exaggeration = 10x
1. Wells are projected onto the cross-section.

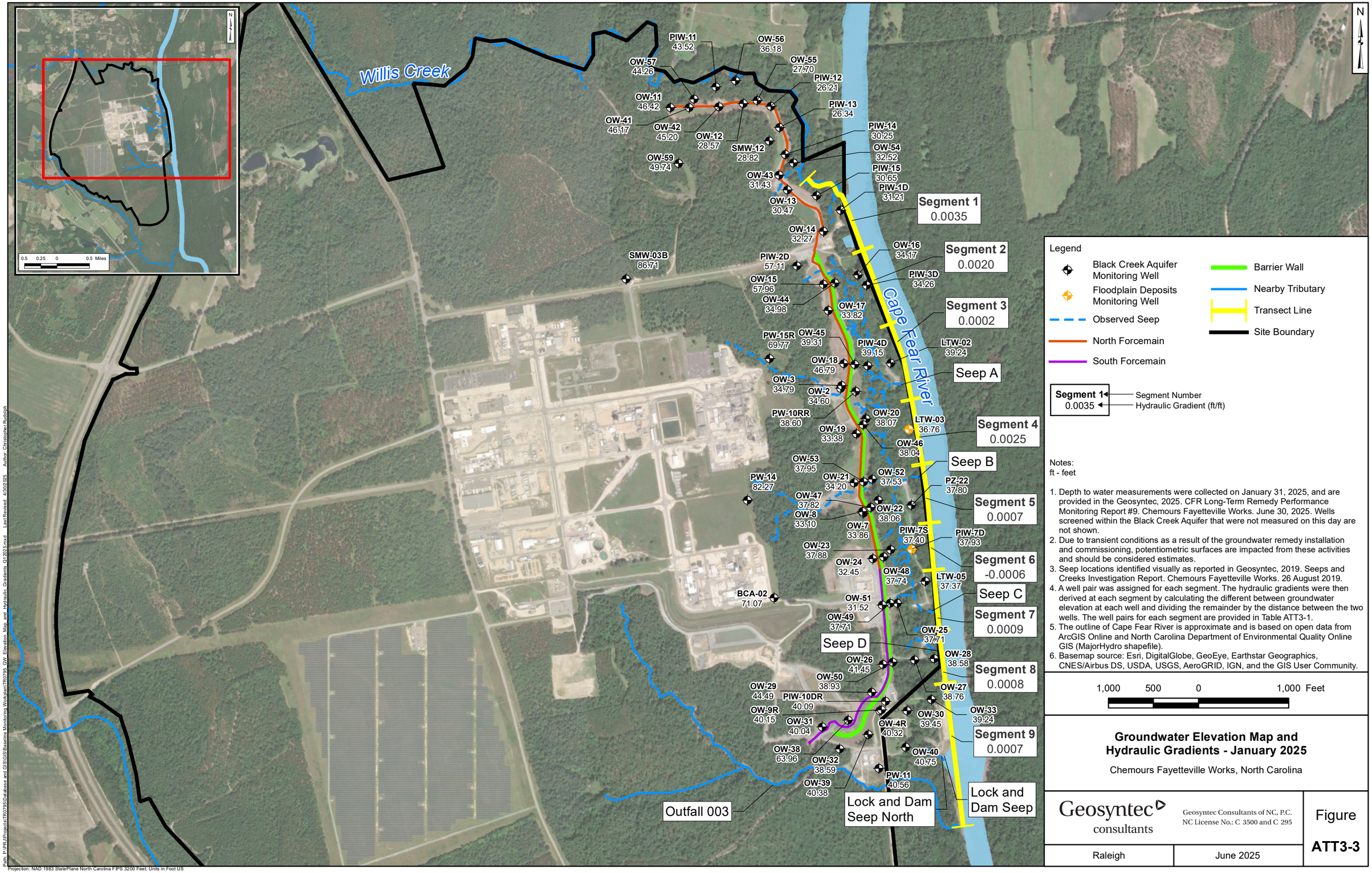
Cross-Sections Along Cape Fear River Transect Line
Chemours Fayetteville Works, North Carolina

Geosyntec consultants

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

Raleigh | June 2025

Figure
ATT3-2



Legend

- Black Creek Aquifer Monitoring Well
- Floodplain Deposits Monitoring Well
- Observed Seep
- North Forcemain
- South Forcemain
- Barrier Wall
- Nearby Tributary
- Transect Line
- Site Boundary

Segment 1 0.0035 — Segment Number; Hydraulic Gradient (ft/ft)

Notes:
ft - feet

1. Depth to water measurements were collected on January 31, 2025, and are provided in the Geosyntec, 2025. CFR Long-Term Remedy Performance Monitoring Report #9. Chemours Fayetteville Works. June 30, 2025. Wells screened within the Black Creek Aquifer that were not measured on this day are not shown.
2. Due to transient conditions as a result of the groundwater remedy installation and commissioning, potentiometric surfaces are impacted from these activities and should be considered estimates.
3. Seep locations identified visually as reported in Geosyntec, 2019. Seeps and Creeks Investigation Report. Chemours Fayetteville Works. 26 August 2019.
4. A well pair was assigned for each segment. The hydraulic gradients were then derived at each segment by calculating the different between groundwater elevation at each well and dividing the remainder by the distance between the two wells. The well pairs for each segment are provided in Table ATT3-1.
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 (MajorHydro shapefile).
6. Basemap source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.

Groundwater Elevation Map and Hydraulic Gradients - January 2025

Chemours Fayetteville Works, North Carolina

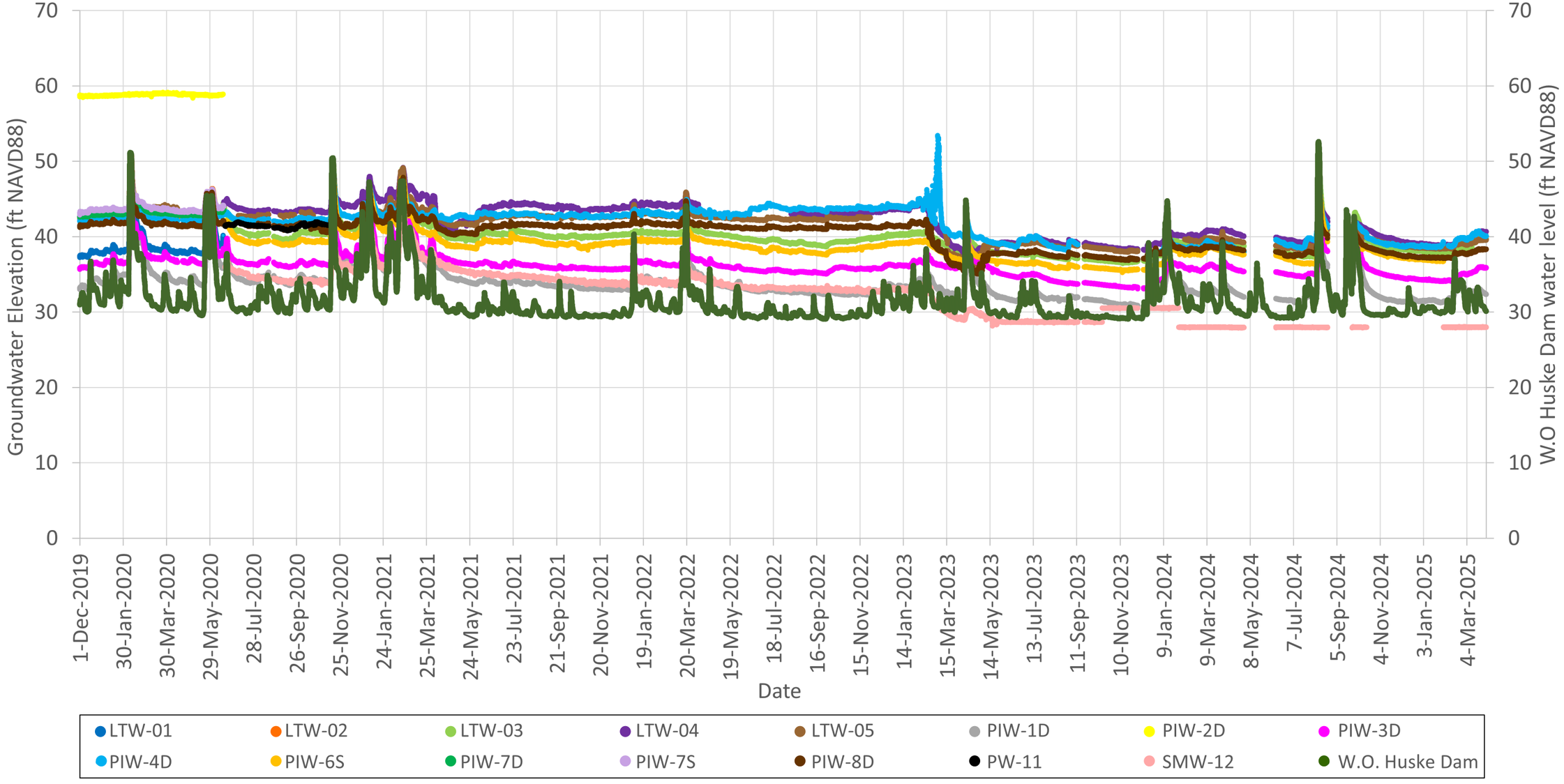
Geosyntec consultants

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

Raleigh | June 2025

Figure ATT3-3

Author: Christopher Rudolph
Last Revised: 4/30/2025
Path: P:\PRJ\Projects\TR0795\Database and GIS\GIS\Baseline Monitoring Workplan\TR0795_GW_Elevation_Map_and_Hydraulic_Gradients_Q12025.mxd
Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet; Units in Foot US



Notes:
ft - feet
NAVD88 - North American Vertical Datum of 1988 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 2025

Figure **ATT3-4**

Appendix B

Supplemental Tables

TABLE B1-1
OUTFALL 003 CAPTURED MASS LOAD BY COMPOUND AND TIME INTERVAL - Q1 2025
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	PFO3OA	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_2025_Q1_1	1/1/25 0:00	1/31/25 23:59	744	13.9	0.18	0.53	0.22	0.063	0.036	0.020	0.12	0.046	0	0.011	0.007	0.017	0	0.010	0	0.0053	0	0	0	0	1.3
OF003_2025_Q1_2	2/1/25 0:00	2/28/25 23:59	672	12.4	0.16	0.52	0.20	0.056	0.034	0.019	0.10	0.038	0	0.010	0.008	0.017	0	0.008	0	0.0039	0.004	0	0	0	1.2
OF003_2025_Q1_3	3/1/25 0:00	3/31/25 23:59	744	14.4	0.19	0.55	0.23	0.060	0.030	0.015	0.13	0.051	0	0.010	0.005	0.016	0	0.014	0	0.0043	0	0	0	0	1.3
		Total		**40.7**	**0.53**	**1.59**	**0.65**	**0.18**	**0.100**	**0.055**	**0.36**	**0.14**	**0**	**0.031**	**0.020**	**0.050**	**0**	**0.031**	**0**	**0.013**	**0.004**	**0**	**0**	**0**	**3.7**

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 2025
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]
2/6/25	0.13	0.038	0.0041	0.0010	0.043
2/7/25	0.28	0.084	0.0091	0.0022	0.095
2/8/25	0.33	0.098	0.0106	0.0026	0.111
2/13/25	0.21	0.157	0.0229	0.0025	0.182
2/14/25	0.06	0.048	0.0069	0.0007	0.055
2/18/25	0.21	0.107	0.0150	0.0032	0.125
2/19/25	0.10	0.048	0.0067	0.0014	0.056
2/25/25	0.10	0.040	0.0062	0.0015	0.047
3/4/25	0.18	0.082	0.0109	0.0028	0.096
3/5/25	0.10	0.049	0.0064	0.0016	0.057
3/11/25	0.19	0.051	0.0056	0.0037	0.060
3/12/25	0.32	0.088	0.0096	0.0064	0.104
3/13/25	0.21	0.058	0.0063	0.0042	0.068
3/18/25	0.15	0.029	0.0058	0.0018	0.036
3/19/25	0.33	0.063	0.0125	0.0038	0.079
3/20/25	0.08	0.015	0.0030	0.0009	0.019
Total	**3.0**	**1.05**	**0.14**	**0.040**	**1.2**

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

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 - Data presented are based on Monthly Monitoring Reports submitted to the North Carolina Department of Environmental Quality by Chemours.

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-1	LOCK-DAM NORTH
Field Sample ID	CAP1Q25-CFR-BLADEN-010725	CAP1Q25-CFR-KINGS-011325	CAP1Q25-CFR-RM-76-010725	CAP1Q25-CFR-TARHEEL-010825	CAP1Q25-CFR-TARHEEL-24-010925	CAP1Q25-GBC-1-010725	CAP1Q25-LOCK-DAM-NORTH-010725
Sample Date	1/7/2025	1/13/2025	1/7/2025	1/8/2025	1/9/2025	1/7/2025	1/7/2025
QA/QC							
Sample Delivery Group (SDG)	320-118153-1	320-118272-1	320-118153-1	320-118193-1	320-118193-1	320-118153-1	320-118154-1
Lab Sample ID	320-118153-8	320-118272-1	320-118153-6	320-118193-2	320-118193-1	320-118153-7	320-118154-4
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<84
11Cl-PF3OUdS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<86
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
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	<160
9Cl-PF3ONS	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
DONA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
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	<63
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<160
Perfluorobutane Sulfonic Acid	**2.7**	**2.9**	**2.4**	**3.5**	**3.1**	**2.3**	<63
Perfluorobutanoic Acid	<5.0	<5.0	<5.0	<5.0	<5.0	**7.3**	<160
Perfluorodecane Sulfonic Acid	<2.0	**2.1**	<2.0	<2.0	<2.0	<2.0	<63
Perfluorodecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
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	<63
Perfluoroheptanoic Acid	**2.1**	**2.6**	**2.2**	**2.7**	**2.7**	<2.0	<63
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
Perfluorohexane Sulfonic Acid	**3.6**	**3.8**	**3.8**	**4.2**	**4.0**	<2.0	<71
Perfluorohexanoic Acid	**4.4**	**5.2**	**4.5**	**5.3**	**4.9**	**2.2**	<73
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
Perfluorononanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<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	<63
Perfluoropentanoic Acid	**4.6**	**4.6**	**4.7**	**5.5**	**5.4**	**7.0**	**68**
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	<63
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<63
PFOA	**5.3**	**6.2**	**5.6**	**6.4**	**6.0**	**4.6**	<63
PFOS	**8.1**	**8.1**	**8.2**	**9.2**	**9.5**	<2.0	<63

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

Location ID	LOCK-DAM SEEP	OLDOF-1	OUTFALL 002	OUTFALL 002	RIVER WATER INTAKE 2	RIVER WATER INTAKE 2	SEEP-C-EFF
Field Sample ID	CAP1Q25-LOCK-DAM-SEEP-010725	CAP1Q25-OLDOF-1-8-010725	CAP1Q25-OUTFALL-002-24-010825	OUTFALL-002-24-010825D	RIVER-WATER-INTAKE-010825	RIVER-WATER-INTAKE-18-010925	CAP1Q25-SEEP-C-EFF-16-010825
Sample Date	1/7/2025	1/7/2025	1/8/2025	1/8/2025	1/8/2025	1/9/2025	1/8/2025
QA/QC				Field Duplicate			
Sample Delivery Group (SDG)	320-118154-1	320-118153-1	320-118154-1	320-118154-1	320-118193-1	320-118193-1	320-118153-1
Lab Sample ID	320-118154-3	320-118153-5	320-118154-1	320-118154-2	320-118193-4	320-118193-3	320-118153-1
537 Mod (ng/L)							
10:2 Fluorotelomer sulfonate	<84	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<86	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<110	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<180	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
9Cl-PF3ONS	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
DONA	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<110	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	<63	<2.0	**3.4**	**2.8**	**3.6**	**3.9**	<2.0
Perfluorobutanoic Acid	<160	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<69	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	**69**	<2.0	**2.5**	**2.2**	**2.4**	**2.7**	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<71	<2.0	**3.4**	**3.6**	**3.3**	**4.0**	<2.0
Perfluorohexanoic Acid	<73	<2.0	**4.6**	**4.9**	**4.6**	**5.6**	<2.0
Perfluorononanesulfonic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<120	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	**300**	**5.0**	**5.6**	**5.7**	**5.4**	**6.2**	<2.0
Perfluorotetradecanoic Acid	<91	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<63	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PFOA	<63	<2.0	**5.8**	**5.6**	**5.3**	**6.3**	<2.0
PFOS	<63	<2.0	**7.7**	**7.4**	**6.9**	**7.3**	<2.0

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

Location ID	WC-1	EB	EB
Field Sample ID	CAP1Q25-WC-1-21-010825	CAP1Q25-EQBLK-IS-010825	CAP1Q25-EQBLK-PP-010825
Sample Date	1/8/2025	1/8/2025	1/8/2025
QA/QC		Equipment Blank	Equipment Blank
Sample Delivery Group (SDG)	320-118153-1	320-118153-1	320-118153-1
Lab Sample ID	320-118153-2	320-118153-10	320-118153-9
537 Mod (ng/L)			
10:2 Fluorotelomer sulfonate	<2.0	<2.0	<2.0
11Cl-PF3OUdS	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorodecanesulfonate (8:2 FTS)	<2.0	<2.0	<2.0
1H,1H,2H,2H-perfluorohexanesulfonate (4:2 FTS)	<2.0	<2.0	<2.0
2-(N-ethyl perfluoro-1-octanesulfonamido)-ethanol	<2.0	<2.0	<2.0
2-(N-methyl perfluoro-1-octanesulfonamido)-ethanol	<4.0	<4.0	<4.0
6:2 Fluorotelomer sulfonate	<5.0	<5.0	<5.0
9Cl-PF3ONS	<2.0	<2.0	<2.0
DONA	<2.0	<2.0	<2.0
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
N-ethylperfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-methyl perfluoro-1-octanesulfonamide	<2.0	<2.0	<2.0
N-Methyl Perfluorooctane Sulfonamidoacetic Acid	<5.0	<5.0	<5.0
Perfluorobutane Sulfonic Acid	**12**	<2.0	<2.0
Perfluorobutanoic Acid	**5.7**	<5.0	<5.0
Perfluorodecane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorodecanoic Acid	<2.0	<2.0	<2.0
Perfluorododecane Sulfonic Acid (PFDoS)	<2.0	<2.0	<2.0
Perfluorododecanoic Acid	<2.0	<2.0	<2.0
Perfluoroheptane Sulfonic Acid (PFHpS)	<2.0	<2.0	<2.0
Perfluoroheptanoic Acid	<2.0	<2.0	<2.0
Perfluorohexadecanoic Acid (PFHxDA)	<2.0	<2.0	<2.0
Perfluorohexane Sulfonic Acid	<2.0	<2.0	<2.0
Perfluorohexanoic Acid	**5.2**	<2.0	<2.0
Perfluorononanesulfonic Acid	<2.0	<2.0	<2.0
Perfluorononanoic Acid	<2.0	<2.0	<2.0
Perfluorooctadecanoic Acid	<2.0	<2.0	<2.0
Perfluorooctane Sulfonamide	<2.0	<2.0	<2.0
Perfluoropentane Sulfonic Acid (PFPeS)	<2.0	<2.0	<2.0
Perfluoropentanoic Acid	**8.4**	<2.0	<2.0
Perfluorotetradecanoic Acid	<2.0	<2.0	<2.0
Perfluorotridecanoic Acid	<2.0	<2.0	<2.0
Perfluoroundecanoic Acid	<2.0	<2.0	<2.0
PFOA	**5.4**	<2.0	<2.0
PFOS	<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.

B - Analyte detected in an associated blank

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

< - Analyte not detected above associated reporting limit.

-- - Not measured / Not Applicable

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 2025 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 2025	Upstream River Water and Groundwater	01/07/25 9:25	William O Huske Lock and Dam	--	01/07/25 9:25	--	2,710
	Tarheel (Grab Sample)	01/08/25 14:00	William O Huske Lock and Dam	7	01/08/25 7:15	--	2,800
	Tarheel (Composite Sample)	01/09/25 16:42	William O Huske Lock and Dam	6	01/09/25 10:15	1,880	--
	Bladen Bluff	01/07/25 15:30	William O Huske Lock and Dam	5	01/07/25 10:45	--	2,730
	Kings Bluff	01/13/25 10:48	Cape Fear River Lock and Dam #1	--	01/13/25 10:48	--	2,830

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:

ft^3/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 (ft^3/sec)	Flow Volume (gal)	Gage Height (ft)	Precipitation (in)[1]
1/7/2025 0:00	2690	18,110,290	2.45	0
1/7/2025 0:15	2580	17,369,721	2.39	0
1/7/2025 0:30	2620	17,639,019	2.41	0
1/7/2025 0:45	2600	17,504,370	2.40	0
1/7/2025 1:00	2600	17,504,370	2.40	0
1/7/2025 1:15	2600	17,504,370	2.40	0
1/7/2025 1:30	2600	17,504,370	2.40	0
1/7/2025 1:45	2580	17,369,721	2.39	0
1/7/2025 2:00	2600	17,504,370	2.40	0
1/7/2025 2:15	2600	17,504,370	2.40	0
1/7/2025 2:30	2600	17,504,370	2.40	0
1/7/2025 2:45	2600	17,504,370	2.40	0
1/7/2025 3:00	2600	17,504,370	2.40	0
1/7/2025 3:15	2600	17,504,370	2.40	0
1/7/2025 3:30	2600	17,504,370	2.40	0
1/7/2025 3:45	2600	17,504,370	2.40	0
1/7/2025 4:00	2600	17,504,370	2.40	0
1/7/2025 4:15	2600	17,504,370	2.40	0
1/7/2025 4:30	2620	17,639,019	2.41	0
1/7/2025 4:45	2620	17,639,019	2.41	0
1/7/2025 5:00	2620	17,639,019	2.41	0
1/7/2025 5:15	2620	17,639,019	2.41	0
1/7/2025 5:30	2620	17,639,019	2.41	0
1/7/2025 5:45	2640	17,773,668	2.42	0
1/7/2025 6:00	2640	17,773,668	2.42	0
1/7/2025 6:15	2650	17,840,993	2.43	0
1/7/2025 6:30	2640	17,773,668	2.42	0
1/7/2025 6:45	2640	17,773,668	2.42	0
1/7/2025 7:00	2650	17,840,993	2.43	0
1/7/2025 7:15	2650	17,840,992	2.43	0
1/7/2025 7:30	2650	17,840,992	2.43	0
1/7/2025 7:45	2650	17,840,993	2.43	0
1/7/2025 8:00	2670	17,975,641	2.44	0
1/7/2025 8:15	2670	17,975,641	2.44	0
1/7/2025 8:30	2670	17,975,642	2.44	0
1/7/2025 8:45	2670	17,975,641	2.44	0
1/7/2025 9:00	2670	17,975,641	2.44	0
1/7/2025 9:15	2690	18,110,291	2.45	0
1/7/2025 9:30	2710	18,244,939	2.46	0
1/7/2025 9:45	2690	18,110,290	2.45	0
1/7/2025 10:00	2710	18,244,940	2.46	0
1/7/2025 10:15	2690	18,110,290	2.45	0
1/7/2025 10:30	2690	18,110,290	2.45	0
1/7/2025 10:45	2730	18,379,589	2.47	0
1/7/2025 11:00	2710	18,244,939	2.46	0
1/7/2025 11:15	2730	18,379,588	2.47	0
1/7/2025 11:30	2750	18,514,238	2.48	0
1/7/2025 11:45	2730	18,379,588	2.47	0
1/7/2025 12:00	2730	18,379,588	2.47	0
1/7/2025 12:15	2730	18,379,589	2.47	0
1/7/2025 12:30	2730	18,379,588	2.47	0
1/7/2025 12:45	2710	18,244,939	2.46	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]
1/7/2025 13:00	2730	18,379,589	2.47	0
1/7/2025 13:15	2750	18,514,237	2.48	0
1/7/2025 13:30	2750	18,514,237	2.48	0
1/7/2025 13:45	2730	18,379,589	2.47	0
1/7/2025 14:00	2730	18,379,588	2.47	0
1/7/2025 14:15	2750	18,514,237	2.48	0
1/7/2025 14:30	2730	18,379,589	2.47	0
1/7/2025 14:45	2750	18,514,237	2.48	0
1/7/2025 15:00	2750	18,514,237	2.48	0
1/7/2025 15:15	2760	18,581,562	2.49	0
1/7/2025 15:30	2730	18,379,588	2.47	0
1/7/2025 15:45	2750	18,514,237	2.48	0
1/7/2025 16:00	2760	18,581,562	2.49	0
1/7/2025 16:15	2750	18,514,237	2.48	0
1/7/2025 16:30	2750	18,514,237	2.48	0
1/7/2025 16:45	2730	18,379,589	2.47	0
1/7/2025 17:00	2730	18,379,588	2.47	0
1/7/2025 17:15	2730	18,379,588	2.47	0
1/7/2025 17:30	2750	18,514,238	2.48	0
1/7/2025 17:45	2730	18,379,588	2.47	0
1/7/2025 18:00	2730	18,379,588	2.47	0
1/7/2025 18:15	2730	18,379,589	2.47	0
1/7/2025 18:30	2730	18,379,588	2.47	0
1/7/2025 18:45	2730	18,379,588	2.47	0
1/7/2025 19:00	2730	18,379,589	2.47	0
1/7/2025 19:15	2730	18,379,588	2.47	0
1/7/2025 19:30	2730	18,379,588	2.47	0
1/7/2025 19:45	2730	18,379,589	2.47	0
1/7/2025 20:00	2730	18,379,588	2.47	0
1/7/2025 20:15	2750	18,514,237	2.48	0
1/7/2025 20:30	2750	18,514,238	2.48	0
1/7/2025 20:45	2750	18,514,237	2.48	0
1/7/2025 21:00	2750	18,514,237	2.48	0
1/7/2025 21:15	2750	18,514,238	2.48	0
1/7/2025 21:30	2750	18,514,237	2.48	0
1/7/2025 21:45	2750	18,514,237	2.48	0
1/7/2025 22:00	2750	18,514,238	2.48	0
1/7/2025 22:15	2750	18,514,237	2.48	0
1/7/2025 22:30	2760	18,581,562	2.49	0
1/7/2025 22:45	2760	18,581,562	2.49	0
1/7/2025 23:00	2760	18,581,562	2.49	0
1/7/2025 23:15	2760	18,581,562	2.49	0
1/7/2025 23:30	2760	18,581,562	2.49	0
1/7/2025 23:45	2780	18,716,211	2.50	0
1/8/2025 0:00	2760	18,581,562	2.49	0
1/8/2025 0:15	2760	18,581,562	2.49	0
1/8/2025 0:30	2780	18,716,211	2.50	0
1/8/2025 0:45	2780	18,716,211	2.50	0
1/8/2025 1:00	2780	18,716,211	2.50	0
1/8/2025 1:15	2760	18,581,562	2.49	0
1/8/2025 1:30	2780	18,716,211	2.50	0
1/8/2025 1:45	2780	18,716,211	2.50	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]
1/8/2025 2:00	2780	18,716,211	2.50	0
1/8/2025 2:15	2780	18,716,211	2.50	0
1/8/2025 2:30	2780	18,716,211	2.50	0
1/8/2025 2:45	2780	18,716,211	2.50	0
1/8/2025 3:00	2780	18,716,211	2.50	0
1/8/2025 3:15	2780	18,716,211	2.50	0
1/8/2025 3:30	2780	18,716,211	2.50	0
1/8/2025 3:45	2780	18,716,211	2.50	0
1/8/2025 4:00	2780	18,716,211	2.50	0
1/8/2025 4:15	2780	18,716,211	2.50	0
1/8/2025 4:30	2780	18,716,211	2.50	0
1/8/2025 4:45	2780	18,716,211	2.50	0
1/8/2025 5:00	2800	18,850,860	2.51	0
1/8/2025 5:15	2780	18,716,211	2.50	0
1/8/2025 5:30	2800	18,850,860	2.51	0
1/8/2025 5:45	2800	18,850,860	2.51	0
1/8/2025 6:00	2800	18,850,860	2.51	0
1/8/2025 6:15	2800	18,850,860	2.51	0
1/8/2025 6:30	2800	18,850,860	2.51	0
1/8/2025 6:45	2780	18,716,211	2.50	0
1/8/2025 7:00	2800	18,850,860	2.51	0
1/8/2025 7:15	2800	18,850,860	2.51	0
1/8/2025 7:30	2800	18,850,860	2.51	0
1/8/2025 7:45	2800	18,850,860	2.51	0
1/8/2025 8:00	2800	18,850,860	2.51	0
1/8/2025 8:15	2800	18,850,860	2.51	0
1/8/2025 8:30	2800	18,850,860	2.51	0
1/8/2025 8:45	2800	18,850,860	2.51	0
1/8/2025 9:00	2800	18,850,860	2.51	0
1/8/2025 9:15	2800	18,850,860	2.51	0
1/8/2025 9:30	2800	18,850,860	2.51	0
1/8/2025 9:45	2800	18,850,860	2.51	0
1/8/2025 10:00	2820	18,985,509	2.52	0
1/8/2025 10:15	2800	18,850,860	2.51	0
1/8/2025 10:30	2820	18,985,509	2.52	0
1/8/2025 10:45	2820	18,985,509	2.52	0
1/8/2025 11:00	2820	18,985,509	2.52	0
1/8/2025 11:15	2820	18,985,509	2.52	0
1/8/2025 11:30	2820	18,985,509	2.52	0
1/8/2025 11:45	2840	19,120,158	2.53	0
1/8/2025 12:00	2820	18,985,509	2.52	0
1/8/2025 12:15	2820	18,985,509	2.52	0
1/8/2025 12:30	2840	19,120,158	2.53	0
1/8/2025 12:45	2840	19,120,158	2.53	0
1/8/2025 13:00	2840	19,120,158	2.53	0
1/8/2025 13:15	2820	18,985,509	2.52	0
1/8/2025 13:30	2840	19,120,158	2.53	0
1/8/2025 13:45	2820	18,985,509	2.52	0
1/8/2025 14:00	2840	19,120,158	2.53	0
1/8/2025 14:15	2840	19,120,158	2.53	0
1/8/2025 14:30	2840	19,120,158	2.53	0
1/8/2025 14:45	2840	19,120,158	2.53	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]
1/8/2025 15:00	2840	19,120,158	2.53	0
1/8/2025 15:15	2840	19,120,158	2.53	0
1/8/2025 15:30	2840	19,120,158	2.53	0
1/8/2025 15:45	2840	19,120,158	2.53	0
1/8/2025 16:00	2860	19,254,807	2.54	0
1/8/2025 16:15	2840	19,120,158	2.53	0
1/8/2025 16:30	2860	19,254,807	2.54	0
1/8/2025 16:45	2860	19,254,807	2.54	0
1/8/2025 17:00	2860	19,254,807	2.54	0
1/8/2025 17:15	2860	19,254,807	2.54	0
1/8/2025 17:30	2860	19,254,807	2.54	0
1/8/2025 17:45	2860	19,254,807	2.54	0
1/8/2025 18:00	2880	19,389,456	2.55	0
1/8/2025 18:15	2880	19,389,456	2.55	0
1/8/2025 18:30	2880	19,389,456	2.55	0
1/8/2025 18:45	2880	19,389,456	2.55	0
1/8/2025 19:00	2880	19,389,456	2.55	0
1/8/2025 19:15	2880	19,389,456	2.55	0
1/8/2025 19:30	2880	19,389,456	2.55	0
1/8/2025 19:45	2900	19,524,105	2.56	0
1/8/2025 20:00	2900	19,524,105	2.56	0
1/8/2025 20:15	2900	19,524,105	2.56	0
1/8/2025 20:30	2900	19,524,105	2.56	0
1/8/2025 20:45	2900	19,524,105	2.56	0
1/8/2025 21:00	2900	19,524,105	2.56	0
1/8/2025 21:15	2900	19,524,105	2.56	0
1/8/2025 21:30	2900	19,524,105	2.56	0
1/8/2025 21:45	2900	19,524,105	2.56	0
1/8/2025 22:00	2920	19,658,754	2.57	0
1/8/2025 22:15	2920	19,658,754	2.57	0
1/8/2025 22:30	2930	19,726,078	2.58	0
1/8/2025 22:45	2920	19,658,754	2.57	0
1/8/2025 23:00	2920	19,658,754	2.57	0
1/8/2025 23:15	2930	19,726,078	2.58	0
1/8/2025 23:30	2920	19,658,754	2.57	0
1/8/2025 23:45	2920	19,658,754	2.57	0
1/9/2025 0:00	2920	19,658,754	2.57	0
1/9/2025 0:15	2920	19,658,754	2.57	0
1/9/2025 0:30	2930	19,726,078	2.58	0
1/9/2025 0:45	2920	19,658,754	2.57	0
1/9/2025 1:00	2920	19,658,754	2.57	0
1/9/2025 1:15	2920	19,658,754	2.57	0
1/9/2025 1:30	2920	19,658,754	2.57	0
1/9/2025 1:45	2930	19,726,079	2.58	0
1/9/2025 2:00	2920	19,658,754	2.57	0
1/9/2025 2:15	2920	19,658,754	2.57	0
1/9/2025 2:30	2920	19,658,754	2.57	0
1/9/2025 2:45	2920	19,658,754	2.57	0
1/9/2025 3:00	2950	19,860,727	2.59	0
1/9/2025 3:15	2930	19,726,079	2.58	0
1/9/2025 3:30	2930	19,726,078	2.58	0
1/9/2025 3:45	2930	19,726,078	2.58	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]
1/9/2025 4:00	2930	19,726,079	2.58	0
1/9/2025 4:15	2930	19,726,078	2.58	0
1/9/2025 4:30	2930	19,726,078	2.58	0
1/9/2025 4:45	2930	19,726,079	2.58	0
1/9/2025 5:00	2950	19,860,727	2.59	0
1/9/2025 5:15	2950	19,860,727	2.59	0
1/9/2025 5:30	2930	19,726,079	2.58	0
1/9/2025 5:45	2930	19,726,078	2.58	0
1/9/2025 6:00	2950	19,860,727	2.59	0
1/9/2025 6:15	2950	19,860,728	2.59	0
1/9/2025 6:30	2950	19,860,727	2.59	0
1/9/2025 6:45	2950	19,860,727	2.59	0
1/9/2025 7:00	2950	19,860,728	2.59	0
1/9/2025 7:15	2950	19,860,727	2.59	0
1/9/2025 7:30	2970	19,995,376	2.60	0
1/9/2025 7:45	2950	19,860,728	2.59	0
1/9/2025 8:00	2950	19,860,727	2.59	0
1/9/2025 8:15	2950	19,860,727	2.59	0
1/9/2025 8:30	2950	19,860,728	2.59	0
1/9/2025 8:45	2970	19,995,376	2.60	0
1/9/2025 9:00	2970	19,995,376	2.60	0
1/9/2025 9:15	2950	19,860,728	2.59	0
1/9/2025 9:30	2970	19,995,376	2.60	0
1/9/2025 9:45	2990	20,130,025	2.61	0
1/9/2025 10:00	2990	20,130,026	2.61	0
1/9/2025 10:15	2970	19,995,376	2.60	0
1/9/2025 10:30	2990	20,130,025	2.61	0
1/9/2025 10:45	3010	20,264,675	2.62	0
1/9/2025 11:00	2990	20,130,025	2.61	0
1/9/2025 11:15	3010	20,264,674	2.62	0
1/9/2025 11:30	2970	19,995,377	2.60	0
1/9/2025 11:45	3030	20,399,323	2.63	0
1/9/2025 12:00	3030	20,399,323	2.63	0
1/9/2025 12:15	3010	20,264,675	2.62	0
1/9/2025 12:30	3010	20,264,674	2.62	0
1/9/2025 12:45	3010	20,264,674	2.62	0
1/9/2025 13:00	2990	20,130,026	2.61	0
1/9/2025 13:15	3010	20,264,674	2.62	0
1/9/2025 13:30	3010	20,264,674	2.62	0
1/9/2025 13:45	3010	20,264,675	2.62	0
1/9/2025 14:00	3010	20,264,674	2.62	0
1/9/2025 14:15	2990	20,130,025	2.61	0
1/9/2025 14:30	2990	20,130,026	2.61	0
1/9/2025 14:45	2990	20,130,025	2.61	0
1/9/2025 15:00	3010	20,264,674	2.62	0
1/9/2025 15:15	2990	20,130,026	2.61	0
1/9/2025 15:30	2990	20,130,025	2.61	0
1/9/2025 15:45	2990	20,130,025	2.61	0
1/9/2025 16:00	3010	20,264,675	2.62	0
1/9/2025 16:15	2990	20,130,025	2.61	0
1/9/2025 16:30	3010	20,264,674	2.62	0
1/9/2025 16:45	3010	20,264,675	2.62	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]
1/9/2025 17:00	3010	20,264,674	2.62	0
1/9/2025 17:15	2990	20,130,025	2.61	0
1/9/2025 17:30	2990	20,130,026	2.61	0
1/9/2025 17:45	2990	20,130,025	2.61	0
1/9/2025 18:00	2990	20,130,025	2.61	0
1/9/2025 18:15	2990	20,130,026	2.61	0
1/9/2025 18:30	2990	20,130,025	2.61	0
1/9/2025 18:45	2990	20,130,025	2.61	0
1/9/2025 19:00	2990	20,130,026	2.61	0
1/9/2025 19:15	2990	20,130,025	2.61	0
1/9/2025 19:30	2990	20,130,025	2.61	0
1/9/2025 19:45	3010	20,264,675	2.62	0
1/9/2025 20:00	3010	20,264,674	2.62	0
1/9/2025 20:15	2990	20,130,025	2.61	0
1/9/2025 20:30	3010	20,264,675	2.62	0
1/9/2025 20:45	3010	20,264,674	2.62	0
1/9/2025 21:00	3010	20,264,674	2.62	0
1/9/2025 21:15	3010	20,264,675	2.62	0
1/9/2025 21:30	3010	20,264,674	2.62	0
1/9/2025 21:45	3030	20,399,323	2.63	0
1/9/2025 22:00	3010	20,264,675	2.62	0
1/9/2025 22:15	3010	20,264,674	2.62	0
1/9/2025 22:30	3010	20,264,674	2.62	0
1/9/2025 22:45	3010	20,264,675	2.62	0
1/9/2025 23:00	3010	20,264,674	2.62	0
1/9/2025 23:15	3010	20,264,674	2.62	0
1/9/2025 23:30	3010	20,264,675	2.62	0
1/9/2025 23:45	3010	20,264,675	2.62	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.

ft^3/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)
1/13/2025	0:00	2,750	900	18,514,237
1/13/2025	0:15	2,750	900	18,514,238
1/13/2025	0:30	2,750	900	18,514,237
1/13/2025	0:45	2,750	900	18,514,237
1/13/2025	1:00	2,730	900	18,379,589
1/13/2025	1:15	2,750	900	18,514,237
1/13/2025	1:30	2,750	900	18,514,237
1/13/2025	1:45	2,730	900	18,379,589
1/13/2025	2:00	2,730	900	18,379,588
1/13/2025	2:15	2,750	900	18,514,237
1/13/2025	2:30	2,750	900	18,514,238
1/13/2025	2:45	2,750	900	18,514,237
1/13/2025	3:00	2,750	900	18,514,237
1/13/2025	3:15	2,750	900	18,514,238
1/13/2025	3:30	2,750	900	18,514,237
1/13/2025	3:45	2,750	900	18,514,237
1/13/2025	4:00	2,750	900	18,514,238
1/13/2025	4:15	2,750	900	18,514,237
1/13/2025	4:30	2,750	900	18,514,237
1/13/2025	4:45	2,750	900	18,514,238
1/13/2025	5:00	2,750	900	18,514,237
1/13/2025	5:15	2,750	900	18,514,237
1/13/2025	5:30	2,750	900	18,514,238
1/13/2025	5:45	2,750	900	18,514,237
1/13/2025	6:00	2,750	900	18,514,237
1/13/2025	6:15	2,750	900	18,514,238
1/13/2025	6:30	2,750	900	18,514,237
1/13/2025	6:45	2,750	900	18,514,237
1/13/2025	7:00	2,750	900	18,514,238
1/13/2025	7:15	2,750	900	18,514,237
1/13/2025	7:30	2,750	900	18,514,237
1/13/2025	7:45	2,750	900	18,514,238
1/13/2025	8:00	2,750	900	18,514,237
1/13/2025	8:15	2,750	900	18,514,237
1/13/2025	8:30	2,750	900	18,514,238
1/13/2025	8:45	2,750	900	18,514,237
1/13/2025	9:00	2,750	900	18,514,237
1/13/2025	9:15	2,770	900	18,648,887
1/13/2025	9:30	2,750	900	18,514,237
1/13/2025	9:45	2,770	900	18,648,886
1/13/2025	10:00	2,770	900	18,648,887
1/13/2025	10:15	2,770	900	18,648,886
1/13/2025	10:30	2,810	900	18,918,184
1/13/2025	10:45	2,830	900	19,052,834
1/13/2025	11:00	2,830	900	19,052,833
1/13/2025	11:15	2,850	900	19,187,482
1/13/2025	11:30	2,850	900	19,187,483
1/13/2025	11:45	2,850	900	19,187,482
1/13/2025	12:00	2,850	900	19,187,482
1/13/2025	12:15	2,870	900	19,322,132
1/13/2025	12:30	2,870	900	19,322,131
1/13/2025	12:45	2,870	900	19,322,131
1/13/2025	13:00	2,870	900	19,322,132

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

Date	Time	Discharge (cubic ft/sec)	Seconds	Volume (gal)
1/13/2025	13:15	2,890	900	19,456,780
1/13/2025	13:30	2,890	900	19,456,780
1/13/2025	13:45	2,890	900	19,456,781
1/13/2025	14:00	2,890	900	19,456,780
1/13/2025	14:15	2,890	900	19,456,780
1/13/2025	14:30	2,890	900	19,456,781
1/13/2025	14:45	2,890	900	19,456,780
1/13/2025	15:00	2,890	900	19,456,780
1/13/2025	15:15	2,910	900	19,591,430
1/13/2025	15:30	2,910	900	19,591,429
1/13/2025	15:45	2,910	900	19,591,429
1/13/2025	16:00	2,890	900	19,456,781
1/13/2025	16:15	2,910	900	19,591,429
1/13/2025	16:30	2,910	900	19,591,429
1/13/2025	16:45	2,910	900	19,591,430
1/13/2025	17:00	2,910	900	19,591,429
1/13/2025	17:15	2,930	900	19,726,078
1/13/2025	17:30	2,930	900	19,726,079
1/13/2025	17:45	2,930	900	19,726,078
1/13/2025	18:00	2,930	900	19,726,078
1/13/2025	18:15	2,930	900	19,726,079
1/13/2025	18:30	2,930	900	19,726,078
1/13/2025	18:45	2,930	900	19,726,078
1/13/2025	19:00	2,930	900	19,726,079
1/13/2025	19:15	2,930	900	19,726,078
1/13/2025	19:30	2,930	900	19,726,078
1/13/2025	19:45	2,950	900	19,860,728
1/13/2025	20:00	2,930	900	19,726,078
1/13/2025	20:15	2,930	900	19,726,078
1/13/2025	20:30	2,950	900	19,860,728
1/13/2025	20:45	2,930	900	19,726,078
1/13/2025	21:00	2,950	900	19,860,727
1/13/2025	21:15	2,950	900	19,860,728
1/13/2025	21:30	2,950	900	19,860,727
1/13/2025	21:45	2,950	900	19,860,727
1/13/2025	22:00	2,950	900	19,860,728
1/13/2025	22:15	2,950	900	19,860,727
1/13/2025	22:30	2,950	900	19,860,727
1/13/2025	22:45	2,970	900	19,995,377
1/13/2025	23:00	2,970	900	19,995,376
1/13/2025	23:15	2,950	900	19,860,727
1/13/2025	23:30	2,950	900	19,860,728
1/13/2025	23:45	2,950	900	19,860,728

Notes

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

ft^3/sec - cubic feet per second

ft - feet

gal - gallons

USGS - United States Geological Survey

Appendix C

Field Forms

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	BLADEN-1DR	Well Diameter:	2 Inches
Samplers:	BRANDON WEIDNER|SAIRA BOHAM	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 42
Pump Loc: within screen
Method: Peristaltic Pump Date: 01-16-2025 Time: 9:57

WATER VOLUME CALCULATION

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

Water Volume = 4.456

Initial Depth to Water (ft.): 19.55 Depth to Well Bottom (ft.): 47.4

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			
10:40	20.06	240.00	2400.00	5.41	0.73	148.90	21.70	70.70	16.40	Clear	No	
10:45	20.06	240.00	1200.00	5.42	0.31	104.10	20.46	72.10	16.40	Clear	Eggy	
10:55	20.04	240.00	2400.00	5.46	0.22	1.00	21.50	70.80	16.70	Clear	Eggy	Missed 10:50 reading due an equipment change.
11:00	20.15	240.00	1200.00	5.45	0.09	3.80	18.93	70.50	16.90	Clear	Eggy	
11:05	20.15	240.00	1200.00	5.44	0.04	-5.20	16.71	70.60	16.80	Clear	Eggy	
11:10	20.15	240.00	1200.00	5.44	0.03	-4.40	12.03	70.40	17.10	Clear	Eggy	
11:15	20.15	240.00	1200.00	5.44	0.03	-5.70	10.65	70.20	17.00	Clear	Eggy	
11:20	20.15	240.00	1200.00	5.43	0.03	-9.70	8.31	70.20	17.20	Clear	Eggy	
11:25	20.15	240.00	1200.00	5.4	0.02	-7.70	8.16	70.00	17.20	Clear	Eggy	
11:30	20.15	240.00	1200.00	5.38	0.01	-10.90	5.95	70.00	17.40	Clear	Eggy	
11:35	20.10	240.00	1200.00	5.35	0.00	-10.00	6.81	70.00	17.40	Clear	Eggy	
11:40	20.15	240.00	1200.00	5.36	0.00	-15.40	5.40	69.90	17.20	Clear	Eggy	
11:45	20.15	240.00	1200.00	5.37	0.00	-17.70	5.14	70.00	17.30	Clear	Eggy	
11:50	20.15	240.00	1200.00	5.37	0.00	-19.10	4.96	69.90	17.10	Clear	Eggy	
11:55	20.15	240.00	1200.00	5.38	0.00	-23.20	4.55	69.90	17.20	Clear	Eggy	
12:00	20.15	240.00	1200.00	5.38	0.00	-24.60	6.29	69.80	17.20	Clear	Eggy	
12:05	20.15	240.00	1200.00	5.39	0.00	-26.70	6.61	69.90	16.90	Clear	Eggy	
12:10	20.15	240.00	1200.00	5.39	0.00	-26.70	8.73	70.00	17.30	Clear	Eggy	

Screen Interval: 37-47

Sampling Data

Purge Start Time: 10:30
Method: Low Flow Date: 01-16-2025 Time: 12:10 Total Volume Purged (mL): 24000
Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	5.39
Spec. Cond.(µS/cm)	70.00
Turbidity (NTU)	8.73
Temp.(°C)	17.30
DO (mg/L)	0.00
ORP (mV)	-26.70

Sample ID: CAP1Q25-BLADEN-1DR-011625
DuplicateID: CAP1Q25-BLADEN-1DR-011625-D
QA/QC: Dup|MS|MSD

WEATHER CONDITIONS	
Temperature (F):	38.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Parsons PLUS
creating a safer world

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: LTW-01 | Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|ZACHARY TOMEK | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 22

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-28-2025 | Time: 13:44

WATER VOLUME CALCULATION

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

Water Volume = 1.67

Initial Depth to Water (ft.): 18.31 | 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			
14:15	19.13	180.00	2700.00	4.17	2.31	74.30	46.90	101.00	16.96	Clear with particulates	No	
14:20	19.58	180.00	900.00	4.24	5.18	164.50	47.10	98.49	16.96	Clear with particulates	No	
14:25	19.68	180.00	900.00	4.16	1.31	161.70	40.20	66.24	16.88	Clear with particulates	No	
14:30	20.22	100.00	500.00	4.15	1.14	168.10	40.00	71.82	16.66	Clear with particulates	No	Flow changed to 100mL/min
14:35	20.58	100.00	500.00	4.15	1.40	163.30	37.30	69.33	16.83	Clear with particulates	No	
14:40	20.81	100.00	500.00	4.13	1.81	167.30	32.70	99.27	16.93	Clear with particulates	No	
14:45	20.94	100.00	500.00	4.11	0.93	161.70	43.00	83.10	17.03	Clear with particulates	No	
14:50	21.08	100.00	500.00	4.12	1.02	158.10	49.90	72.71	16.86	Clear with particulates	No	
14:55	21.12	100.00	500.00	4.13	1.32	157.00	36.60	92.10	16.54	Clear with particulates	No	
15:00	21.13	100.00	500.00	4.12	1.30	158.80	29.70	82.46	16.64	Clear with particulates	No	
15:05	21.13	100.00	500.00	4.11	1.24	160.70	24.00	24.09	16.60	Clear with particulates	No	
15:10	21.13	100.00	500.00	4.1	1.24	163.30	20.30	102.10	16.82	Clear with particulates	No	
15:15	21.13	100.00	500.00	4.08	1.15	166.00	22.00	86.11	16.57	Clear with particulates	No	
15:20	21.13	100.00	500.00	4.09	1.23	169.80	19.72	83.26	16.40	Clear with particulates	No	
15:25	21.13	100.00	500.00	4.08	1.17	172.30	15.48	90.42	16.35	Clear	No	
15:30	21.13	100.00	500.00	4.08	1.22	174.90	10.66	87.46	16.34	Clear	No	

Screen Interval: 11.0-26.0

Sampling Data

Purge Start Time: 14:00

Method: Low Flow | Date: 01-28-2025 | Time: 15:30 | Total Volume Purged (mL): 11000

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.08
Spec. Cond.(µS/cm)	87.46
Turbidity (NTU)	10.66
Temp.(°C)	16.34
DO (mg/L)	1.22
ORP (mV)	174.90

Sample ID: CAP1Q25-LTW-01-012825

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	55.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Parsons PLUS
creating a safer world

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: LTW-02 | Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 35

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-21-2025 | Time: 10:22

WATER VOLUME CALCULATION

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

Water Volume = 4.485

Initial Depth to Water (ft.): 12.66 | Depth to Well Bottom (ft.): 40.69

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			
10:50	12.79	300.00	1500.00	4.77	0.19	21.40	7.80	108.41	14.97	Clear	No	
10:55	12.79	300.00	1500.00	4.66	0.14	20.90	9.92	106.95	14.99	Clear	No	
11:00	12.79	300.00	1500.00	4.58	0.10	20.80	14.60	105.42	15.17	Clear	No	
11:05	12.79	300.00	1500.00	4.46	0.08	24.40	5.57	105.37	15.08	Clear	No	
11:10	12.79	300.00	1500.00	4.44	0.07	26.70	4.46	105.16	15.29	Cloudy	No	
11:15	12.79	300.00	1500.00	4.43	0.06	29.00	5.53	105.60	15.24	Clear	No	
11:20	12.79	300.00	1500.00	4.42	0.05	31.80	5.17	105.06	15.21	Clear	No	
11:25	12.79	300.00	1500.00	4.41	0.05	34.50	1.64	105.23	15.27	Clear	No	
11:30	12.79	300.00	1500.00	4.41	0.05	37.90	3.78	105.54	15.27	Clear	No	
11:35	12.79	300.00	1500.00	4.42	0.04	40.50	1.03	105.37	15.05	Clear	No	
11:40	12.79	300.00	1500.00	4.4	0.04	43.30	1.49	105.84	15.33	Clear	No	
11:45	12.79	300.00	1500.00	4.41	0.04	45.70	1.46	105.60	15.12	Clear	No	
11:50	12.79	300.00	1500.00	4.4	0.05	49.70	1.84	106.02	15.14	Clear	No	
11:55	12.79	300.00	1500.00	4.4	0.05	51.00	1.43	105.79	15.22	Clear	No	
12:00	12.79	300.00	1500.00	4.4	0.05	53.00	0.74	105.76	15.33	Clear	No	
12:05	12.79	300.00	1500.00	4.39	0.05	54.90	0.58	105.66	15.22	Clear	No	

Screen Interval: 28.0-38.0

Sampling Data

Purge Start Time: 10:45

Method: Low Flow | Date: 01-21-2025 | Time: 12:05 | Total Volume Purged (mL): 24000

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.39
Spec. Cond.(µS/cm)	105.66
Turbidity (NTU)	0.58
Temp.(°C)	15.22
DO (mg/L)	0.05
ORP (mV)	54.90

Sample ID: CAP1Q25-LTW-02-012125

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	27.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	10

Parsons PLUS
creating a safer world

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: LTW-03 | Well Diameter: 2 Inches

Samplers: BROCK SHATTUCK|DEBORAH AYERS | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 25

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-29-2025 | Time: 15:26

WATER VOLUME CALCULATION

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

Water Volume = 2.797

Initial Depth to Water (ft.): 15.28 | Depth to Well Bottom (ft.): 32.76

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			
15:45	15.71	280.00	1400.00	4.23	0.37	351.80	28.40	113.26	17.34	Clear with particulate	No	
15:50	15.83	280.00	1400.00	4.17	0.26	337.50	22.70	107.61	17.30	Clear with particulate	No	
15:55	15.93	280.00	1400.00	4.17	0.19	320.70	16.40	107.17	17.11	Clear with particulate	No	
16:00	15.98	280.00	1400.00	4.19	0.17	313.10	10.53	107.82	17.01	Clear	No	
16:05	16.02	280.00	1400.00	4.22	0.17	305.80	9.66	107.66	16.91	Clear	No	
16:10	16.06	280.00	1400.00	4.25	0.17	301.30	6.72	106.68	16.77	Clear	No	

Screen Interval: 15.0-30.0

Sampling Data

Purge Start Time: 15:40

Method: Low Flow | Date: 01-29-2025 | Time: 16:10 | Total Volume Purged (mL): 8400

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.25
Spec. Cond.(µS/cm)	106.68
Turbidity (NTU)	6.72
Temp.(°C)	16.77
DO (mg/L)	0.17
ORP (mV)	301.30

Sample ID: CAP1Q25-LTW-03-012925

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	66.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: LTW-04 | Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|ZACHARY TOMEK | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 21

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-27-2025 | Time: 14:42

WATER VOLUME CALCULATION

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

Water Volume = 2.477

Initial Depth to Water (ft.): 13 | Depth to Well Bottom (ft.): 28.48

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			
15:05	14.38	240.00	1200.00	4.36	1.75	96.90	79.60	97.00	15.03	Cloudy	No	
15:10	14.41	140.00	700.00	4.61	1.10	96.50	63.80	89.37	16.55	Cloudy	No	Flow changed to 140mL/min
15:15	14.39	140.00	700.00	4.75	1.02	99.70	61.80	88.74	13.81	Cloudy	No	
15:20	14.37	140.00	700.00	4.84	0.84	100.50	50.10	88.64	13.58	Cloudy	Now	
15:25	14.37	140.00	700.00	4.94	0.60	100.70	52.70	85.87	13.58	Cloudy	No	
15:30	14.37	140.00	700.00	4.97	0.50	104.00	48.90	85.54	13.55	Clear with particulates	No	
15:35	14.37	140.00	700.00	4.97	0.62	108.10	47.00	85.07	13.15	Clear with particulates	No	
15:40	14.37	140.00	700.00	5.02	0.51	105.90	42.90	84.12	13.07	Clear with particulates	No	
15:45	14.37	140.00	700.00	5.05	0.40	109.30	42.60	84.48	13.36	Clear with particulates	No	
15:50	14.37	140.00	700.00	5.02	0.46	113.90	42.50	84.18	13.03	Clear with particulates	No	
15:55	14.37	140.00	700.00	5.05	0.48	115.20	42.40	84.12	13.29	Clear with particulates	No	
			0.00									
10:20	14.65	240.00	1200.00	4.65	0.95	243.30	36.50	87.32	15.75	Clear with particulates	No	Resumed purging at 1013 on 1/28
10:25	15.01	240.00	1200.00	4.67	0.85	267.00	25.50	80.65	15.45	Clear with particulates	No	Reduced flow to 180
10:30	14.94	180.00	900.00	4.88	0.63	229.00	23.60	79.40	15.21	Clear with particulates	No	
10:35	14.86	180.00	900.00	5.05	0.44	202.50	23.30	77.55	15.29	Clear	No	
10:40	14.79	180.00	900.00	5.12	0.39	176.60	24.50	74.65	15.07	Clear	No	
10:45	14.79	180.00	900.00	5.15	0.34	164.90	23.10	69.94	15.37	Clear	No	
10:50	14.79	180.00	900.00	5.28	0.21	146.30	19.39	70.45	15.75	Clear	No	
10:55	14.79	180.00	900.00	5.24	0.22	144.80	17.84	66.06	15.93	Clear	No	
11:00	14.79	180.00	900.00	5.22	0.23	141.00	19.31	64.77	16.23	Clear	No	
11:05	14.79	180.00	900.00	5.28	0.21	131.30	17.13	54.34	16.68	Clear	No	
11:10	14.79	180.00	900.00	5.27	0.21	126.70	16.76	62.11	16.52	Clear	No	
11:15	14.79	180.00	900.00	5.26	0.20	121.50	15.19	72.66	16.63	Clear	No	
11:20	14.79	180.00	900.00	5.26	0.21	86.80	16.54	72.18	16.62	Clear	No	
11:25	14.79	180.00	900.00	5.26	0.20	91.60	15.48	73.41	17.09	Clear	No	
11:30	14.79	180.00	900.00	5.24	0.20	92.70	17.26	66.92	16.89	Clear	No	

Screen Interval: 12.0-27.0

Sampling Data

Method: Low Flow | Date: 01-28-2025 | Time: 11:30

Field Filtered: No

Purge Start Time: 15:00

Total Volume Purged (mL): 22300

Field Parameters

STABILIZED PARAMETERS	
pH	5.24
Spec. Cond.(µS/cm)	66.92
Turbidity (NTU)	17.26
Temp.(°C)	16.89
DO (mg/L)	0.20
ORP (mV)	92.70

Sample ID: CAP1Q25-LTW-04-012825

DuplicateID:

QA/QC:

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Cloudy
Precipitation:	Rain
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: LTW-05 | Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|ZACHARY TOMEK | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 34

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-27-2025 | Time: 12:27

WATER VOLUME CALCULATION

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

Water Volume = 5.373

Initial Depth to Water (ft.): 13.62 | Depth to Well Bottom (ft.): 47.2

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			
13:05	13.96	240.00	1200.00	4.87	0.16	-0.10	37.30	136.95	15.96	Clear with particulates	Eggy	
13:10	13.96	240.00	1200.00	4.84	0.11	-9.90	33.30	133.03	16.09	Clear with particulates	Eggy	
13:15	13.96	240.00	1200.00	4.78	0.08	-26.50	29.70	126.66	16.11	Clear with particulates	Eggy	
13:20	13.96	240.00	1200.00	4.93	0.09	-43.40	30.20	132.61	15.82	Clear with particulates	Eggy	
13:25	13.96	240.00	1200.00	4.89	0.11	-38.20	28.50	131.03	15.39	Clear with particulates	Eggy	
13:30	13.96	240.00	1200.00	4.95	0.08	-44.30	28.10	128.95	15.63	Clear with particulates	Eggy	
13:35	13.96	240.00	1200.00	4.91	0.05	-52.70	27.00	128.22	16.00	Clear with particulates	Eggy	
13:40	13.96	240.00	1200.00	4.9	0.04	-58.80	24.20	128.42	15.92	Clear with particulates	Eggy	
13:45	13.96	240.00	1200.00	4.85	0.04	-61.50	22.60	128.82	16.03	Clear with particulates	Eggy	
13:50	13.96	240.00	1200.00	4.87	0.03	-65.30	17.84	128.39	16.10	Clear with particulates	Eggy	
13:55	13.96	240.00	1200.00	4.87	0.03	-68.20	17.87	128.84	15.88	Clear with particulates	Eggy	
14:00	13.96	240.00	1200.00	4.88	0.03	-69.70	13.17	128.30	15.57	Clear with particulates	Eggy	

Screen Interval: 25.0-40.0

Sampling Data

Method: Low Flow | Date: 01-27-2025 | Time: 14:00

Field Filtered: No

Purge Start Time: 13:00

Total Volume Purged (mL): 14400

Field Parameters

STABILIZED PARAMETERS	
pH	4.88
Spec. Cond.(µS/cm)	128.30
Turbidity (NTU)	13.17
Temp.(°C)	15.57
DO (mg/L)	0.03
ORP (mV)	-69.70

Sample ID: CAP1Q25-LTW-05-012725

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: OW-28 | Well Diameter: 2 Inches

Samplers: FELIPE SILVA|SAIRA BOHAM | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 28

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-09-2025 | Time: 14:00

WATER VOLUME CALCULATION

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

Water Volume = 3.776

Initial Depth to Water (ft.): 9.97 | Depth to Well Bottom (ft.): 33.57

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			
14:15	10.25	250.00	1250.00	4.51	0.32	12.60	26.00	54.09	14.54	Clear with particles	Eggy	
14:20	10.25	250.00	1250.00	4.57	0.29	1.50	20.20	51.83	14.22	Clear	Eggy	
14:25	10.28	250.00	1250.00	4.52	0.14	-15.80	8.64	51.55	14.61	Clear	Eggy	
14:30	10.20	250.00	1000.00	4.51	0.18	-11.00	8.13	51.32	14.27	Clear	Eggy	
14:35	10.17	250.00	1250.00	4.5	0.23	-26.50	7.27	51.46	13.07	Clear	Eggy	
14:40	10.17	250.00	1250.00	4.51	0.20	-25.90	2.50	51.46	12.87	Clear	Eggy	
14:45	10.17	250.00	1250.00	4.51	0.18	-43.00	2.24	51.56	13.30	Clear	Eggy	
14:50	10.17	250.00	1250.00	4.49	0.12	-54.80	1.84	51.54	14.02	Clear	Eggy	
14:55	10.17	250.00	1250.00	4.48	0.11	-59.50	1.75	51.69	14.22	Clear	Eggy	
15:00	10.17	250.00	1250.00	4.52	0.10	-69.80	0.85	51.68	14.51	Clear	Eggy	
15:05	10.17	250.00	1250.00	4.52	0.09	-77.80	1.29	51.66	14.62	Clear	Eggy	
15:10	10.17	250.00	1250.00	4.51	0.08	-83.80	0.76	51.48	14.41	Clear	Eggy	
15:14	10.17	250.00	1000.00	4.51	0.07	-83.70	0.86	51.60	14.59	Clear	Eggy	
15:20	10.17	250.00	1500.00	4.5	0.07	-89.60	0.06	51.62	14.46	Clear	Eggy	
15:25	10.17	250.00	1250.00	4.49	0.07	-90.30	1.38	51.62	14.48	Clear	Eggy	

Screen Interval: 20-30

Sampling Data

Purge Start Time: 14:10

Method: Low Flow | Date: 01-09-2025 | Time: 15:25 | Total Volume Purged (mL): 18500

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.49
Spec. Cond.(µS/cm)	51.62
Turbidity (NTU)	1.38
Temp.(°C)	14.48
DO (mg/L)	0.07
ORP (mV)	-90.30

Sample ID: CAP1Q25-OW-28-010925

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	39.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

Parsons PLUS
creating a safer world

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	OW-33	Well Diameter:	2 Inches
Samplers:	FELIPE SILVA|SAIRA BOHAM	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 27
Pump Loc: within screen
Method: Peristaltic Pump Date: 01-09-2025 Time: 12:20

WATER VOLUME CALCULATION

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

Water Volume = 3.624

Initial Depth to Water (ft.): 9.38 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			
12:45	9.40	160.00	800.00	4.36	0.35	239.20	34.90	67.01	13.42	Clear with particles	No	
12:50	9.40	160.00	800.00	4.38	0.23	242.60	26.30	66.46	12.88	Clear with particles	No	
12:55	9.40	160.00	800.00	4.41	0.24	245.90	25.30	66.29	13.39	Clear with particles	No	
13:00	9.40	160.00	800.00	4.42	0.30	249.40	23.70	66.30	13.34	Clear with particles	No	
13:05	9.40	160.00	800.00	4.43	0.36	251.30	19.88	66.44	13.41	Clear	No	
13:10	9.40	160.00	800.00	4.41	0.43	252.80	16.70	68.83	13.67	Clear	No	
13:15	9.40	160.00	800.00	4.4	0.54	253.60	15.35	65.78	13.74	Clear	No	
13:20	9.40	160.00	800.00	4.39	0.68	253.90	12.32	66.03	14.38	Clear	No	
13:25	9.40	160.00	800.00	4.41	0.68	253.80	10.96	66.00	14.76	Clear	No	
13:30	9.40	160.00	800.00	4.4	0.65	253.80	9.50	66.15	14.63	Clear	No	

Screen Interval: 19-29

Sampling Data

Purge Start Time: 12:40
Method: Low Flow Date: 01-09-2025 Time: 13:30 Total Volume Purged (mL): 8000
Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.40
Spec. Cond.(µS/cm)	66.15
Turbidity (NTU)	9.50
Temp.(°C)	14.63
DO (mg/L)	0.65
ORP (mV)	253.80

Sample ID: CAP1Q25-OW-33-010925
DuplicateID:
QA/QC:

WEATHER CONDITIONS	
Temperature (F):	35.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville		Well ID:	PIW-1D	Well Diameter:	2	Inches
Samplers:	BRANDON WEIDNER|FELIPE SILVA		Event:	Quarterly CAP	Project Manager:	Tracy Ovbey	

Purging Data

Pump Depth: 28
Pump Loc: within screen
Method: Peristaltic Pump Date: 01-23-2025 Time: 13:25

WATER VOLUME CALCULATION

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

Water Volume = 1.73

Initial Depth to Water (ft.): 20.92 Depth to Well Bottom (ft.): 31.73

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			
15:05	20.92	250.00	21250.00	3.07	0.01	470.10	12.81	249.03	16.20	Clear	none	Due to Forms on Fire Error, the 5 minute purge parameters were lost. This parameter reading is the last observed and recorded as the final stabilized parameters for the well.

Screen Interval:

Sampling Data

Purge Start Time: 13:40
Method: Low Flow Date: 01-23-2025 Time: 15:05 Total Volume Purged (mL): 21250
Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	3.07
Spec. Cond.(µS/cm)	249.03
Turbidity (NTU)	12.81
Temp.(°C)	16.20
DO (mg/L)	1.01
ORP (mV)	470.10

Sample ID: CAP1Q25-PIW-1D-012325
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	37.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	9

Parsons PLUS
creating a safer world

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PIW-1S	Well Diameter:	2	Inches	
Samplers:	BRANDON WEIDNER|FELIPE SILVA	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey		

Purging Data

Pump Depth: --
Pump Loc: --
Method: -- Date: 01-23-2025 Time: 13:20

WATER VOLUME CALCULATION

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

Water Volume = 0.058

Initial Depth to Water (ft.): 21.59 Depth to Well Bottom (ft.): 21.95

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			
13:20	--	--	0.00	--	--	--	--	--	--	--	--	Well is dry

Screen Interval: --

Sampling Data

Purge Start Time: 13:20
Method: -- Date: -- Time: -- Total Volume Purged (mL): 0
Field Filtered: --

Field Parameters

STABILIZED PARAMETERS	
pH	--
Spec. Cond.(µS/cm)	--
Turbidity (NTU)	--
Temp.(°C)	--
DO (mg/L)	--
ORP (mV)	--

Sample ID: --
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	36.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-3D | Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|KEN STUART | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 24

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-16-2025 | Time: 10:06

WATER VOLUME CALCULATION

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

Water Volume = 1.234

Initial Depth to Water (ft.): 19.07 | Depth to Well Bottom (ft.): 26.78

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			
10:25	19.21	180.00	900.00	4.82	1.45	210.60	10.70	115.83	13.68	Clear	No	
10:30	19.19	180.00	900.00	4.68	0.53	33.90	5.63	109.62	13.37	Clear	No	
10:35	19.19	180.00	900.00	4.68	0.23	19.20	3.75	102.06	13.52	Clear	No	
10:40	19.11	180.00	900.00	4.68	0.21	10.70	2.80	99.15	11.57	Clear	No	
10:45	19.21	180.00	900.00	5.06	1.50	16.30	5.59	109.39	10.36	Clear	No	@1044 changed silicone
10:50	19.21	180.00	900.00	4.64	0.19	6.90	2.19	99.78	14.62	Clear	No	
10:55	19.21	180.00	900.00	4.64	0.15	-2.20	2.06	99.38	14.79	Clear	No	
11:00	19.21	180.00	900.00	4.63	0.12	-7.70	1.50	99.10	15.11	Clear	No	
11:05	19.21	180.00	900.00	4.66	0.12	-10.60	1.57	99.32	15.14	Clear	No	
11:10	19.21	180.00	900.00	4.64	0.11	-11.80	1.74	99.02	15.30	Clear	No	
11:15	19.21	180.00	900.00	4.7	0.11	-15.30	1.54	98.33	15.15	Clear	No	
11:20	19.21	180.00	900.00	4.71	0.10	-17.60	1.40	97.94	15.25	Clear	No	
11:25	19.21	180.00	900.00	4.75	0.10	-20.50	1.21	97.56	15.09	Clear	No	
11:30	19.21	180.00	900.00	4.79	0.10	-23.80	1.44	98.05	15.51	Clear	No	
11:35	19.21	180.00	900.00	4.79	0.11	-24.70	1.52	97.64	15.27	Clear	No	
11:40	19.21	180.00	900.00	4.81	0.10	-25.30	1.48	97.77	15.50	Clear	No	
11:45	19.21	180.00	900.00	4.83	0.11	-26.70	1.37	97.79	15.69	Clear	No	
11:50	19.21	180.00	900.00	4.93	0.11	-29.30	1.41	97.96	15.49	Clear	No	
11:55	19.21	180.00	900.00	4.97	0.10	-30.30	1.49	98.65	15.78	Clear	No	
12:00	19.21	180.00	900.00	4.99	0.10	-29.90	1.45	99.32	16.10	Clear	No	

Screen Interval: 20-25

Sampling Data

Purge Start Time: 10:20

Method: Low Flow | Date: 01-16-2025 | Time: 12:00

Total Volume Purged (mL): 18000

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.99
Spec. Cond.(µS/cm)	99.32
Turbidity (NTU)	1.45
Temp.(°C)	16.10
DO (mg/L)	0.10
ORP (mV)	-29.90

Sample ID: CAP1Q25-PIW-3D-011625

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	37.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

Parsons PLUS
creating a safer world

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PIW-7D	Well Diameter:	2 Inches
Samplers:	ERIN JANIGA|ZACHARY TOMEK	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 32
Pump Loc: within screen
Method: Peristaltic Pump Date: 01-09-2025 Time: 12:39

WATER VOLUME CALCULATION

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

Water Volume = 4.19

Initial Depth to Water (ft.): 10.91 Depth to Well Bottom (ft.): 37.1

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			
13:00	10.95	160.00	800.00	6.05	0.48	-157.80	12.20	117.08	14.38	Clear	Yes	
13:05	10.95	160.00	800.00	5.9	0.13	-190.00	10.30	107.33	14.73	Clear	Yes	
13:10	10.95	160.00	800.00	5.93	0.08	-190.70	10.40	105.50	14.75	Clear	Yes	
13:15	10.95	160.00	800.00	5.96	0.06	-193.40	12.30	104.63	14.69	Clear	Yes	
13:20	10.95	160.00	800.00	5.96	0.05	189.90	14.40	104.44	14.72	Clear	Yes	
13:25	10.95	160.00	800.00	6.09	0.06	-191.70	18.10	102.25	13.21	Clear	No	
13:30	10.95	160.00	800.00	6.12	0.11	-185.50	22.50	103.07	13.65	Clear	Yes	
13:35	10.95	160.00	800.00	6.21	0.13	-181.90	24.90	104.00	12.46	Clear	No	
13:40	10.95	160.00	800.00	6.31	0.89	-145.00	17.40	94.24	12.27	Clear	Yes	
13:45	10.95	160.00	800.00	6.21	0.42	-134.00	20.80	103.59	12.58	Clear	Yes	
13:50	10.95	160.00	800.00	6.18	0.14	-152.80	22.40	105.31	12.50	Clear	Yes	
13:55	10.95	160.00	800.00	6.1	0.12	-159.10	23.00	104.19	13.02	Clear	Yes	
14:00	10.95	160.00	800.00	6.11	0.06	-162.10	18.80	104.84	12.83	Clear	Yes	
14:05	10.95	160.00	800.00	6.06	0.06	-164.20	19.30	104.26	13.13	Clear	Yes	
14:10	10.95	160.00	800.00	6.03	0.06	-164.80	19.60	104.43	13.48	Clear	Yes	

Screen Interval: 29-34

Sampling Data

Method: Low Flow Date: 01-09-2025 Time: 14:10
Field Filtered: No

Purge Start Time: 12:55
Total Volume Purged (mL): 12000

Field Parameters

STABILIZED PARAMETERS	
pH	6.03
Spec. Cond.(µS/cm)	104.43
Turbidity (NTU)	19.60
Temp.(°C)	13.48
DO (mg/L)	0.06
ORP (mV)	-164.80

Sample ID: CAP1Q25-PIW-7D-010925
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	41.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PIW-7S | Well Diameter: 2 Inches

Samplers: BRANDON WEIDNER|DEBORAH AYERS | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 15

Pump Loc: above screen

Method: Double valve pump | Date: 01-15-2025 | Time: 13:10

WATER VOLUME CALCULATION

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

Water Volume = 36.066

Initial Depth to Water (ft.): 10.59 | Depth to Well Bottom (ft.): 20.26

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			
13:40	11.06	240.00	2400.00	4.88	0.35	155.60	103.00	165.40	14.60	Clear with particulates	Slight woody	
13:45	10.95	240.00	1200.00	4.91	0.03	132.20	85.00	139.50	13.20	Clear with particulates	None	
13:50	10.95	240.00	1200.00	4.88	0.03	114.50	66.90	133.30	11.70	Clear with particulates	None	
13:55	10.84	240.00	1200.00	4.86	0.04	106.60	40.80	131.10	10.70	Clear with fine particulates	None	
14:00	10.84	240.00	1200.00	4.85	0.04	98.10	33.00	129.90	10.40	Clear	None	
14:05	10.84	240.00	1200.00	4.86	0.03	82.60	29.10	129.40	10.70	Clear	None	
14:10	10.84	240.00	1200.00	4.85	0.01	66.50	29.30	128.50	10.30	Clear	None	
14:15	10.84	240.00	1200.00	4.88	0.00	37.10	21.60	128.00	10.70	Clear	None	
14:20	10.84	240.00	1200.00	4.88	0.00	21.90	17.20	129.00	10.40	Clear	None	
14:25	11.10	240.00	1200.00	4.85	0.04	12.20	24.40	125.40	13.00	Clear	None	Fixed issue with silicone
14:30	11.12	240.00	1200.00	4.93	0.00	-0.70	15.14	127.50	14.30	Clear	None	
14:35	11.15	240.00	1200.00	5.01	0.00	-35.00	12.63	125.50	14.80	Clear	None	
14:40	10.96	240.00	1200.00	5.02	0.00	-37.70	10.33	128.20	12.90	Clear	None	
14:45	10.90	240.00	1200.00	5.03	0.00	-48.50	10.49	127.80	11.40	Clear	None	
15:00	11.05	240.00	3600.00	5.23	2.63	88.60	10.81	120.20	12.60	Clear	None	Missed reading due to silicone malfunction. Replaced silicone and moved equipment inside of truck. New peri
15:05	11.15	240.00	1200.00	5.24	0.16	29.80	8.18	127.00	14.60	Clear	None	
15:10	11.12	240.00	1200.00	5.27	0.00	-24.20	6.41	129.50	14.20	Clear	None	
15:15	10.91	240.00	1200.00	5.26	0.00	-40.70	6.02	128.90	12.80	Clear	None	
15:20	10.92	240.00	1200.00	5.26	0.00	-45.20	6.86	128.60	12.20	Clear	None	
15:25	10.92	240.00	960.00	5.33	0.00	-54.40	4.70	129.10	12.40	Clear	None	
15:30	10.91	240.00	1200.00	5.31	0.00	-52.90	4.58	128.60	12.40	Clear	None	
15:35	10.92	240.00	1200.00	5.32	0.00	-55.60	4.41	128.90	12.80	Clear	None	

Screen Interval: 7-17

Sampling Data

Method: Low Flow | Date: 01-15-2025 | Time: 15:35

Field Filtered: No

Purge Start Time: 13:30

Total Volume Purged (mL): 29760

Field Parameters

STABILIZED PARAMETERS	
pH	5.32
Spec. Cond.(µS/cm)	128.90
Turbidity (NTU)	4.41
Temp.(°C)	12.80
DO (mg/L)	0.00
ORP (mV)	-55.60

Sample ID: CAP1Q25-PIW-7S-011525

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	38.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PW-04	Well Diameter:	2 Inches
Samplers:	DEBORAH AYERS|SAIRA BOHAM	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: --
Pump Loc: --
Method: Bailer Date: 01-20-2025 Time: 12:10

WATER VOLUME CALCULATION

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

Water Volume = 0.43

Initial Depth to Water (ft.): 28.13 Depth to Well Bottom (ft.): 30.82

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			
14:00	28.13		0.00	5.68	0.16	33.20	49.00	1146.70	15.62	Clear	No	Purged approximately 3000 mL
12:50	28.13		0.00	3.26	9.41	366.10	280.00	548.48	14.58	Murky	No	Purged approximately 2010 mL
10:43	28.17		0.00	3.07	7.79	382.00	43.90	490.67	12.28	Clear with particulates	No	Purged approximately 2100 mL
15:48	28.29		0.00	3.44	3.46	429.30	19.29	495.67	15.57	Clear	No	Purged approximately 1150 mL

Screen Interval: 56-66

Sampling Data

Purge Start Time: 13:43
Method: Low Flow Date: 01-23-2025 Time: 15:48 Total Volume Purged (mL): 0
Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	3.44
Spec. Cond.(µS/cm)	495.67
Turbidity (NTU)	19.29
Temp.(°C)	15.57
DO (mg/L)	3.46
ORP (mV)	429.30

Sample ID: CAP1Q25-PW-04-012325
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	37.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville		Well ID:	PW-06	Well Diameter:	2	Inches
Samplers:	BRANDON WEIDNER|FELIPE SILVA		Event:	Quarterly CAP	Project Manager:	Tracy Ovbey	

Purging Data

Pump Depth: 27
Pump Loc: within screen
Method: Peristaltic Pump Date: 01-23-2025 Time: 15:35

WATER VOLUME CALCULATION

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

Water Volume = 2.048

Initial Depth to Water (ft.): 20.05 Depth to Well Bottom (ft.): 32.85

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			
16:15	20.05	280.00	8400.00	3.99	5.80	322.20	3.25	49.62	15.72	Clear	None	Due to Forms on Fire Error, the 5 minute purge parameters were lost. This parameter reading is the last observed and recorded as the final stabilized parameters for the well.

Screen Interval: 35-45

Sampling Data

Method: Low Flow Date: 01-23-2025 Time: 16:15
Field Filtered: No

Purge Start Time: 15:45
Total Volume Purged (mL): 8400

Field Parameters

STABILIZED PARAMETERS	
pH	3.99
Spec. Cond.(µS/cm)	49.62
Turbidity (NTU)	3.25
Temp.(°C)	15.72
DO (mg/L)	5.80
ORP (mV)	322.20

Sample ID: CAP1Q25-PW-06-012325
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	38.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Parsons PLUS
creating a safer world

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PW-07	Well Diameter:	2 Inches
Samplers:	FELIPE SILVA|SAIRA BOHAM	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: --
Pump Loc: --

Method: Bailer Date: 01-20-2025 Time: 9:00

WATER VOLUME CALCULATION

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

Water Volume = 0.469

Initial Depth to Water (ft.): 38.82 Depth to Well Bottom (ft.): 41.75

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			
09:05	38.82		0.00	6.08	9.39	78.70	261.00	152.09	14.96	Cloudy with particles	No	pulled 4480 mL
09:41	38.78		0.00	7.84	11.70	-16.40	45.90	217.51	12.19	Hazy	No	pulled 3320 mL
10:00	38.72		0.00	5.63	9.47	194.40	4.80	282.98	13.48	Clear	No	pulled 1600mL - removed 5 well volumes, will sample after recharge

Screen Interval: 90-100

Sampling Data

Purge Start Time: 09:00

Method: Low Flow Date: 01-20-2025 Time: 10:00 Total Volume Purged (mL): 0

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	5.63
Spec. Cond.(µS/cm)	282.98
Turbidity (NTU)	4.80
Temp.(°C)	13.48
DO (mg/L)	9.47
ORP (mV)	194.40

Sample ID:	CAP1Q25-PW-07-012025
DuplicateID:	--
QA/QC:	--

WEATHER CONDITIONS	
Temperature (F):	31.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	13

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	PW-09	Well Diameter:	2 Inches
Samplers:	DEBORAH AYERS|KEN STUART	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 53
Pump Loc: within screen
Method: Double valve pump Date: 01-16-2025 Time: 9:17

WATER VOLUME CALCULATION

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

Water Volume = 9.429

Initial Depth to Water (ft.): 25.24 Depth to Well Bottom (ft.): 58.93

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			
12:40	26.00	150.00	750.00	10.67	1.21	-100.20	19.07	204.37	14.87	Clear	No	
12:45	26.28	150.00	750.00	10.81	0.92	-87.50	17.09	201.28	15.15	Clear	No	
12:50	26.42	150.00	750.00	10.88	0.84	-82.20	15.86	201.92	15.41	Clear	No	
12:55	26.49	150.00	750.00	10.91	0.71	-78.00	15.15	193.63	15.49	Clear	No	
13:00	26.49	150.00	750.00	10.6	0.58	-75.90	16.63	164.74	15.56	Clear	No	
13:05	26.55	150.00	750.00	10.15	0.50	-78.60	20.30	140.48	15.95	Clear	No	
13:10	26.58	150.00	750.00	10.08	0.48	-85.70	19.05	141.58	15.57	Clear	No	
13:15	26.59	150.00	750.00	9.95	0.45	-93.50	20.00	134.71	15.71	Clear	No	
13:20	26.56	150.00	750.00	9.94	0.45	-102.80	19.74	133.26	15.76	Clear	No	

Screen Interval: 44 - 54

Sampling Data

Purge Start Time: 12:35
Method: Low Flow Date: 01-16-2025 Time: 13:20 Total Volume Purged (mL): 6750
Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	9.94
Spec. Cond.(µS/cm)	133.26
Turbidity (NTU)	19.74
Temp.(°C)	15.76
DO (mg/L)	0.45
ORP (mV)	-102.80

Sample ID: CAP1Q25-PW-09-011625
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	29.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	6

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: PZ-22 | Well Diameter: 1 Inches

Samplers: DEBORAH AYERS|ZACHARY TOMEK | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 46

Pump Loc: within screen

Method: Peristaltic Pump | Date: 01-28-2025 | Time: 11:42

WATER VOLUME CALCULATION

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

Water Volume = 1.555

Initial Depth to Water (ft.): 12.87 | Depth to Well Bottom (ft.): 50.79

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			
12:05		200.00	1000.00	4.23	1.81	274.40	142.00	73.12	16.20	Cloudy	No	Unable to take DTW due to 1 inch well
12:10		200.00	1000.00	4.53	0.56	128.80	85.50	97.79	16.45	Cloudy	No	
12:15		200.00	1000.00	4.49	0.43	102.70	28.40	80.97	16.44	Clearish	No	
12:20		200.00	1000.00	4.46	0.36	90.70	17.51	59.38	16.61	Clear	No	
12:25		200.00	1000.00	4.43	0.30	85.00	10.12	93.86	16.74	Clear	No	
12:30		200.00	1000.00	4.46	0.26	79.60	6.32	82.59	16.54	Clear	No	
12:35		200.00	1000.00	4.45	0.22	74.40	5.22	65.62	16.79	Clear	No	
12:40		200.00	1000.00	4.44	0.18	68.30	6.90	35.38	16.73	Clear	No	
12:45		200.00	1000.00	4.44	0.25	64.10	6.72	34.21	16.73	Clear	No	
12:50		200.00	1000.00	4.41	0.14	63.80	7.91	114.12	16.78	Clear	No	
12:55		200.00	1000.00	4.43	0.12	60.50	4.23	114.27	16.84	Clear	No	
13:00		200.00	1000.00	4.42	0.11	59.80	3.84	113.92	16.70	Clear	No	
13:05		200.00	1000.00	4.43	0.11	56.50	1.92	113.43	16.89	Clear	No	

Screen Interval: 42.5-47.5

Sampling Data

Purge Start Time: 12:00

Method: Low Flow | Date: 01-28-2025 | Time: 13:05 | Total Volume Purged (mL): 13000

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	4.43
Spec. Cond.(µS/cm)	113.43
Turbidity (NTU)	1.92
Temp.(°C)	16.89
DO (mg/L)	0.11
ORP (mV)	56.50

Sample ID: CAP1Q25-PZ-22-012825

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	45.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	SMW-10	Well Diameter:	2 Inches
Samplers:	CHARLES PACE|ERIN JANIGA	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 35
Pump Loc: above screen
Method: Peristaltic Pump Date: 01-15-2025 Time: 11:05

WATER VOLUME CALCULATION

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

Water Volume = 3.573

Initial Depth to Water (ft.): 29.73 Depth to Well Bottom (ft.): 52.06

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			
11:55	29.71	120.00	480.00	6.66	3.32	56.50	4.81	158.17	14.81	Clear	No	
12:00	29.72	120.00	600.00	5.67	4.31	75.00	4.82	139.90	14.31	Clear	No	
12:05	29.72	120.00	600.00	4.96	4.10	82.50	4.03	82.73	15.02	Clear	No	
12:10	29.72	120.00	600.00	4.88	3.82	115.10	4.38	83.03	14.67	Clear	No	
12:15	29.72	120.00	600.00	4.77	3.47	182.40	7.93	178.50	14.85	Clear	No	
12:20	29.72	120.00	600.00	4.95	2.51	131.00	9.56	88.70	15.37	Clear	No	
12:25	29.72	120.00	600.00	5.06	0.93	73.90	7.36	82.85	15.15	Clear	No	
12:30	29.72	120.00	600.00	5.03	0.64	41.00	6.22	83.81	15.57	Clear	No	
12:35	29.72	120.00	600.00	5.05	0.44	17.30	5.42	84.23	15.72	Clear	No	
12:40	29.72	120.00	600.00	5.09	0.35	2.40	4.50	84.68	15.72	Clear	No	
12:45	29.72	120.00	600.00	5.09	0.29	-0.40	4.14	84.56	15.52	Clear	No	
12:50	29.72	120.00	600.00	5.12	0.27	0.70	4.91	86.08	15.21	Clear	No	
12:55	29.72	120.00	600.00	5.11	0.21	-1.80	4.14	85.42	15.35	Clear	No	
13:00	29.72	120.00	600.00	5.07	0.19	-4.20	3.96	84.70	15.40	Clear	No	
13:05	29.72	120.00	600.00	5.09	0.15	-6.20	4.03	84.10	15.45	Clear	No	
13:10	29.72	120.00	600.00	5.09	0.14	-7.90	3.16	83.88	15.24	Clear	No	
13:15	29.72	120.00	600.00	5.09	0.12	-10.10	3.63	84.10	15.27	Clear	No	
13:20	29.72	120.00	600.00	5.07	0.12	-11.00	2.69	83.66	15.03	Clear	No	
13:25	29.72	120.00	480.00	5.05	0.11	-12.50	2.66	83.12	15.07	Clear	No	
13:30	29.72	120.00	480.00	5.05	0.11	-14.10	2.93	83.13	15.42	Clear	No	
13:35	29.72	120.00	600.00	5.07	0.10	-15.50	2.75	82.95	15.09	Clear	No	
13:40	29.72	120.00	600.00	5.04	0.09	-17.10	2.78	83.55	15.27	Clear	No	
13:45	29.72	120.00	600.00	5.06	0.08	-19.40	2.23	84.35	15.27	Clear	No	
13:50	29.72	120.00	600.00	5.11	0.08	-20.00	2.12	84.92	14.62	Clear	No	
14:00	29.71	200.00	2000.00	5.86	10.12	35.40	4.02	0.07	14.21	Clear	No	Troubleshooting pump

Screen Interval: 35-45

Sampling Data

Method: Low Flow Date: 01-15-2025 Time: --
Field Filtered: No

Purge Start Time: 11:51
Total Volume Purged (mL): 16040

Field Parameters

STABILIZED PARAMETERS	
pH	--
Spec. Cond.(µS/cm)	--
Turbidity (NTU)	--
Temp.(°C)	--
DO (mg/L)	--
ORP (mV)	--

Sample ID: CAP1Q25-SMW-10-011525
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	34.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	8

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: SMW-10 | Well Diameter: 2 Inches

Samplers: CHARLES PACE|ERIN JANIGA|SAIRA BOHAM | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 35

Pump Loc: above screen

Method: Double valve pump | Date: 01-15-2025 | Time: 11:05

WATER VOLUME CALCULATION

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

Water Volume = 3.573

Initial Depth to Water (ft.): 29.73 | Depth to Well Bottom (ft.): 52.06

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			
15:10	29.68	300.00	1500.00	4.73	0.50	46.50	10.50	85.09	15.67	Clear	No	
15:15	29.66	300.00	1500.00	4.98	0.56	18.40	10.00	85.11	15.74	Clear	No	
15:20	29.68	300.00	1500.00	4.96	0.56	7.50	8.06	84.53	15.90	Clear	No	
15:25	29.68	300.00	1500.00	4.97	0.54	3.60	8.24	84.15	15.93	Clear	No	
15:30	29.68	300.00	1500.00	4.95	0.50	-0.30	8.92	84.06	15.97	Clear	No	
15:35	29.68	300.00	1500.00	4.96	0.48	-2.00	8.68	83.85	15.84	Clear	No	
15:40	29.68	300.00	1500.00	4.95	0.47	-5.00	8.36	83.22	82.88	Clear	No	
15:45	29.68	300.00	1500.00	4.95	0.39	-7.50	8.44	83.49	16.09	Clear	No	
15:50	29.68	300.00	1500.00	4.94	0.34	-9.70	7.12	82.77	16.01	Clear	No	
15:55	29.68	300.00	1500.00	4.92	0.35	-11.80	6.46	82.61	16.06	Clear	No	
16:00	29.68	300.00	1500.00	4.94	0.33	-13.00	5.58	82.52	16.07	Clear	No	
16:05	29.68	300.00	1500.00	4.93	0.29	-15.85	6.11	82.58	16.02	Clear	No	
16:10	29.68	300.00	1500.00	4.55	0.29	-17.40	5.46	82.55	16.12	Clear	No	
16:15	29.68	300.00	1500.00	4.95	0.28	-17.10	3.60	82.48	15.96	Clear	No	

Screen Interval: 35-45

Sampling Data

Method: Low Flow | Date: 01-15-2025 | Time: 16:15

Field Filtered: No

Purge Start Time: 15:05

Total Volume Purged (mL): 21000

Field Parameters

STABILIZED PARAMETERS	
pH	4.95
Spec. Cond.(µS/cm)	82.48
Turbidity (NTU)	3.60
Temp.(°C)	15.96
DO (mg/L)	0.28
ORP (mV)	-17.10

Sample ID: CAP1Q25-SMW-10-011525

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	40.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

RECORD OF WELL SAMPLING

Site Name:	Chemours Fayetteville	Well ID:	SMW-11	Well Diameter:	2 Inches
Samplers:	KEN STUART|SAIRA BOHAM	Event:	Quarterly CAP	Project Manager:	Tracy Ovbey

Purging Data

Pump Depth: 20
Pump Loc: within screen
Method: Peristaltic Pump Date: 01-15-2025 Time: 12:09

WATER VOLUME CALCULATION

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

Water Volume = 1.627

Initial Depth to Water (ft.): 15.63 Depth to Well Bottom (ft.): 25.8

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			
12:40	15.66	170.00	1360.00	4.2	4.43	200.50	22.00	3337.00	13.09	Clear	No	
12:45	15.66	170.00	850.00	4.13	4.30	221.60	20.90	3211.00	12.85	Clear	No	
12:50	15.69	170.00	850.00	4.09	4.32	233.50	8.67	3081.00	12.76	Clear	No	
12:55	15.69	170.00	850.00	4.08	4.32	242.30	4.43	3115.00	12.65	Clear	No	
12:58	15.68	170.00	510.00	4.13	4.26	241.60	4.48	3155.00	12.84	Clear	No	

Screen Interval: 13-23

Sampling Data

Method: Low Flow Date: 01-15-2025 Time: 13:00
Field Filtered: No

Purge Start Time: 12:32
Total Volume Purged (mL): 4420

Field Parameters

STABILIZED PARAMETERS	
pH	4.13
Spec. Cond.(µS/cm)	3155.00
Turbidity (NTU)	4.48
Temp.(°C)	12.84
DO (mg/L)	4.26
ORP (mV)	241.60

Sample ID: CAP1Q25-SMW-11-011525
DuplicateID: --
QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	36.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

RECORD OF WELL SAMPLING

Site Name: Chemours Fayetteville | Well ID: SMW-12 | Well Diameter: 2 Inches

Samplers: DEBORAH AYERS|SAIRA BOHAM | Event: Quarterly CAP | Project Manager: Tracy Ovbey

Purging Data

Pump Depth: 98

Pump Loc: within screen

Method: Double valve pump | Date: 01-24-2025 | Time: 10:09

WATER VOLUME CALCULATION

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

Water Volume = 3.558

Initial Depth to Water (ft.): 90.28 | Depth to Well Bottom (ft.): 103.42

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			
10:50	90.28	200.00	2000.00	3.71	0.44	146.20	256.00	174.13	14.53	Cloudy	Eggy	
10:55	90.30	200.00	1000.00	3.57	1.69	164.70	66.10	172.46	14.89	Cloudy	Eggy	
11:00	90.30	200.00	1000.00	3.65	1.73	177.60	42.60	169.40	14.71	Clear with particles	Eggy	
11:05	90.30	200.00	1000.00	3.66	1.60	196.10	37.20	168.68	14.67	Clear with particles	Slightly eggy	
11:10	90.30	200.00	1000.00	3.68	1.37	222.50	29.10	168.77	14.75	Clear with particles	Slightly eggy	
11:15	90.30	200.00	1000.00	3.67	1.38	238.50	28.00	168.49	14.69	Clear with particles	Slightly eggy	
11:20	90.30	200.00	1000.00	3.71	1.37	249.60	26.70	168.31	14.62	Clear	No	
11:25	90.30	200.00	1000.00	3.68	1.32	254.00	25.40	169.02	14.87	Clear	No	
11:30	90.30	200.00	1000.00	3.73	1.24	258.10	23.70	168.28	14.42	Clear	No	
11:35	90.30	200.00	1000.00	3.71	1.19	261.60	22.40	167.82	14.52	Clear	No	
11:40	90.30	200.00	1000.00	3.75	1.12	264.60	21.40	168.45	14.03	Clear	No	
11:45	90.30	200.00	1000.00	3.72	1.07	264.90	20.70	168.39	14.14	Clear	No	
11:50	90.30	200.00	1000.00	3.71	1.03	268.60	20.40	168.46	14.11	Clear	No	
11:55	90.30	200.00	1000.00	3.7	1.00	269.90	19.62	168.11	14.23	Clear	No	
12:00	90.30	200.00	1000.00	3.69	1.00	271.40	18.01	168.31	14.20	Clear	No	
12:05	90.30	200.00	1000.00	3.69	1.00	272.30	15.39	168.02	14.00	Clear	No	

Screen Interval: 88 to 98

Sampling Data

Purge Start Time: 10:40

Method: Low Flow | Date: 01-24-2025 | Time: 12:05 | Total Volume Purged (mL): 17000

Field Filtered: No

Field Parameters

STABILIZED PARAMETERS	
pH	3.69
Spec. Cond.(µS/cm)	168.02
Turbidity (NTU)	15.39
Temp.(°C)	14.00
DO (mg/L)	1.00
ORP (mV)	272.30

Sample ID: CAP1Q25-SMW-12-012425

DuplicateID: --

QA/QC: --

WEATHER CONDITIONS	
Temperature (F):	34.00
Sky:	Partly Sunny
Precipitation:	None
Wind (mph)	5

Parsons PLUS creating a safer world

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	CFR-BLADEN	Project Manager:	Tracy Ovbey
Samplers:	BRANDON WEIDNER|CHARLES PACE|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	15:17		

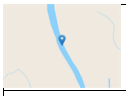
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-CFR-BLADEN-010725	01-07-2025 15:30		6.74	12.41	214.80	8.46	129.30	6.80	Clear	No	--

Sampling Data

Sampling Method:	Peri Pump Grab	Tubing Depth (ft):	8	Distance to River Right:	42
Sampling Location:	Thalweg	Multi Meter Used:	YSI Pro	Distance to River Left:	36
Total Depth to Bottom of Channel (ft):	16	Multi Meter ID:	24k105102	Distance to River (Right/Left) Units:	m

WEATHER CONDITIONS	
Temperature (F):	42.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	12

Latitude: 34.772756392405
Longitude: -78.7981776633199



GPS Location (if collected)

General Comments:	
Sample Comments:	

River left

River right

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	CFR-KINGS	Project Manager:	Tracy Ovbey
Samplers:	CHARLES PACE|DEBORAH AYERS|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-13-2025	Time:	10:39		

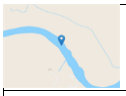
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-CFR-KINGS-011325	01-13-2025 10:48		7.02	11.78	199.30	22.50	245.07	7.10	Clear	No	--

Sampling Data

Sampling Method:	Peri Pump Grab	Tubing Depth (ft):	9	Distance to River Right:	57
Sampling Location:	Thalweg	Multi Meter Used:	Insitu Aqua Troll	Distance to River Left:	43
Total Depth to Bottom of Channel (ft):	18.1	Multi Meter ID:	1172835	Distance to River (Right/Left) Units:	m

WEATHER CONDITIONS	
Temperature (F):	43.00
Sky:	Cloudy
Precipitation:	None
Wind (mph)	4

Latitude:	34.4071255633814
Longitude:	-78.2951357493668



GPS Location (if collected)

General Comments:	
Sample Comments:	

River Right

River Left

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	CFR-RM-76	Project Manager:	Tracy Ovbey
Samplers:	BRANDON WEIDNER|CHARLES PACE|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	09:18		

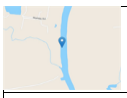
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-CFR-RM-76-010725	01-07-2025 09:25		8.49	12.16	74.50	9.93	1457.00	6.80	Clear	No	

Sampling Data

Sampling Method:	Peri Pump Grab	Tubing Depth (ft):	12	Distance to River Right:	13
Sampling Location:	Thalweg	Multi Meter Used:	YSI Pro	Distance to River Left:	69
Total Depth to Bottom of Channel (ft):	24	Multi Meter ID:	24k105102	Distance to River (Right/Left) Units:	m

WEATHER CONDITIONS	
Temperature (F):	34.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	3

Latitude:	34.8533856375276
Longitude:	-78.8270638026805



GPS Location (if collected)

General Comments:	
Sample Comments:	

River Right

River left

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	CFR-TARHEEL	Project Manager:	Tracy Ovbey
Samplers:	BRANDON WEIDNER|CHARLES PACE|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	13:19		

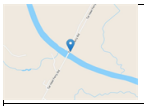
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-CFR-TARHEEL-24-010925	01-09-2025 16:42		7.95	8.34	171.30	22.50	124.52	11.45	Clear	None	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	Insitu Aqua Troll
ISCO Start Date and Time:	01-08-2025 17:42	Multi Meter ID:	706770
ISCO End Date and Time:	01-09-2025 16:42		

WEATHER CONDITIONS	
Temperature (F):	39.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:	34.7449252587556
Longitude:	-78.785183500913



GPS Location (if collected)

General Comments:	
Sample Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	CFR-TARHEEL	Project Manager:	Tracy Ovbey
Samplers:	BROCK SHATTUCK|CHARLES PACE|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	13:50		

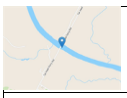
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-CFR-TARHEEL-010825	01-08-2025 14:00		8.03	5.84	160.20	22.60	146.67	8.41	Clear	No	--

Sampling Data

Sampling Method:	Peri Pump Grab	Tubing Depth (ft):	8	Distance to River Right:	30
Sampling Location:	Thalweg	Multi Meter Used:	Insitu Aqua Troll	Distance to River Left:	52
Total Depth to Bottom of Channel (ft):	16	Multi Meter ID:	1172835	Distance to River (Right/Left) Units:	m

WEATHER CONDITIONS	
Temperature (F):	39.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	5

Latitude:	34.7443707771815
Longitude:	-78.7854245030468



GPS Location (if collected)

General Comments:	
Sample Comments:	

River right

River left

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	GBC-1	Project Manager:	Tracy Ovbey
Samplers:	BRANDON WEIDNER|CHARLES PACE|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	14:05		

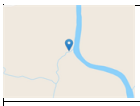
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP0125-GBC-1-010725	01-07-2025	14:40	4.31	11.41	281.30	11.82	159.90	7.20	Clear	No	--

Sampling Data

Sampling Method:	Bottle Grab	Multi Meter Used:	YSI Pro	Flow Rate:	
Water Quality Condition:		Multi Meter ID:	24k105102	Flow Rate Units:	

WEATHER CONDITIONS	
Temperature (F):	40.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	10

Latitude: 34.8144846375172
Longitude: -78.8219893709884



GPS Location (if collected)

General Comments:	Moved slightly upstream to avoid river influence
Sampling Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	Lock and Dam North	Project Manager:	Tracy Ovbey
Samplers:	BRANDON WEIDNER|CHARLES PACE|KEN STUART|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	11:12		

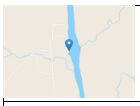
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP0125-Lock and Dam North-010725	01-07-2025 11:15		7.68	7.15	112.80	66.50	119.00	12.10	Hazy	No	--

Sampling Data

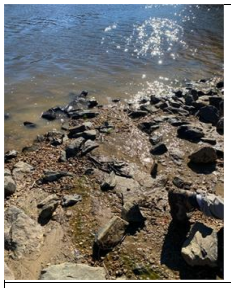
Sampling Method:	Bottle Grab	Multi Meter Used:	YSI Pro	Flow Rate:	4.33
Water Quality Condition:		Multi Meter ID:	24k105102	Flow Rate Units:	L/min

WEATHER CONDITIONS	
Temperature (F):	36.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

Latitude:	34.8338004576922
Longitude:	-78.8235026064263



GPS Location (if collected)



General Comments:	

Sampling Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	Lock-Dam Seep	Project Manager:	Tracy Ovbey
Samplers:	BRANDON WEIDNER|CHARLES PACE|KEN STUART|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	10:55		

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP0125-Lock-Dam Seep-010725	01-07-2025 11:00		7.52	9.21	109.60	52.00	187.34	3.80	Clear with particulates	No	--

Sampling Data

Sampling Method:	Bottle Grab	Multi Meter Used:	YSI Pro	Flow Rate:	13.2
Water Quality Condition:		Multi Meter ID:	24K105102	Flow Rate Units:	L/min

WEATHER CONDITIONS	
Temperature (F):	36.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	15

Latitude: 34.8338754922722
Longitude: -78.82378372692

GPS Location (if collected)

General Comments:	
Sampling Comments:	No smell, clear with particles

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	OLDOF-1	Project Manager:	Tracy Ovbey
Samplers:	DEBORAH AYERS|SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	12:40		

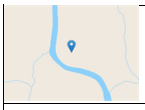
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-OLDOF-1-8-010725	01-07-2025 16:36		8.11	10.54	226.30	14.27	323.49	8.37	Clear	No	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	Insitu Aqua Troll
ISCO Start Date and Time:	01-07-2025 09:36	Multi Meter ID:	1172835
ISCO End Date and Time:	01-07-2025 16:36		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:	34.8145200290016
Longitude:	-78.8186140794081



GPS Location (if collected)

General Comments:	Power failed after sample 8
Sample Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	OUTFALL 002	Project Manager:	Tracy Ovbey
Samplers:	DEBORAH AYERS|SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	11:14		

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25OUTFALL 002-24-010825	01-08-2025 08:00		8.34	10.62	189.20	24.00	313.88	9.80	Clear	No	DUP|MS|MSD

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	Insitu Aqua Troll
ISCO Start Date and Time:	01-07-2025 09:00	Multi Meter ID:	1172835
ISCO End Date and Time:	01-08-2025 08:00		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:	34.8382686435699
Longitude:	-78.8263181444203

GPS Location (if collected)

General Comments:	
Sample Comments:	

ISCO

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	RIVER-WATER-INTAKE	Project Manager:	Tracy Ovbey
Samplers:	DEBORAH AYERS|SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	10:27		

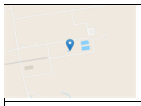
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP0125-RIVER-WATER-INTAKE-010925	1/8/2025	10:30	8.72	11.80	57.50	28.50	688.48	5.05	Clear	No	--

Sampling Data

Sampling Method:	ISCO grab	Multi Meter Used:	Insitu Aqua Troll	Flow Rate:	
Water Quality Condition:		Multi Meter ID:	1172835	Flow Rate Units:	

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:	34.84347719754371
Longitude:	-78.83538425246633



GPS Location (if collected)

ISCO

General Comments:	
Sampling Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	RIVER- WATER-INTAKE	Project Manager:	Tracy Ovbey
Samplers:	DEBORAH AYERS|SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	9:11		

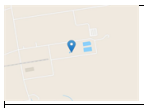
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-RIVER- WATER-INTAKE-18-010925	01-09-2025 03:32		8.72	11.80	57.50	28.50	688.48	5.05	Clear	No	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	Insitu Aqua Troll
ISCO Start Date and Time:	01-08-2025 10:32	Multi Meter ID:	1172835
ISCO End Date and Time:	01-09-2025 03:32		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:	34.8434724401759
Longitude:	-78.8354102451095



GPS Location (if collected)

General Comments:	No more liquid for samples 19-24; possible frozen lines
Sample Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	SEEP-A	Project Manager:	Tracy Ovbey
Samplers:	SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	17:13		

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-SEEP-A-010725	01-07-2025 17:15		--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	
ISCO Start Date and Time:	01-07-2025 17:15	Multi Meter ID:	
ISCO End Date and Time:	01-07-2025 17:15		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:
Longitude:

GPS Location (if collected)

General Comments:	No sample collected, no processing water flowing through flow cell.
Sample Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	SEEP-B	Project Manager:	Tracy Ovbey
Samplers:	SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	17:16		

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-SEEP-B-010725	01-07-2025 17:16		--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	
ISCO Start Date and Time:	01-07-2025 17:16	Multi Meter ID:	
ISCO End Date and Time:	01-07-2025 17:16		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:
Longitude:

GPS Location (if collected)

General Comments:	No sample collected, no processing water flowing through flow cell.
Sample Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	SEEP-C	Project Manager:	Tracy Ovbey
Samplers:	DEBORAH AYERS|SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	11:00		

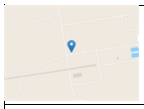
Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25SEEP-C-16-010925	01-09-2025 01:06		8.27	6.32	184.20	19.85	282.60	9.31	Clear	No	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	Insitu Aqua Troll
ISCO Start Date and Time:	01-07-2025 09:06	Multi Meter ID:	1172835
ISCO End Date and Time:	01-08-2025 01:06		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:	34.8440923855652
Longitude:	-78.8414997265769



GPS Location (if collected)

General Comments:	
Sample Comments:	No more liquid for samples 17-24; possibly due to freezing

ISCO

Slightly frozen

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	SEEP-D	Project Manager:	Tracy Ovbey
Samplers:	SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-07-2025	Time:	17:18		

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25-SEEP-D-010725	01-07-2025 17:18		--	--	--	--	--	--	--	--	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	
ISCO Start Date and Time:	01-07-2025 17:18	Multi Meter ID:	
ISCO End Date and Time:	01-07-2025 17:18		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:
Longitude:

GPS Location (if collected)

General Comments:	No sample collected, no processing water flowing through flow cell.
Sample Comments:	

PARSONS

SURFACE WATER SAMPLING RECORD

Site Name:	Chemours Fayetteville	Location ID:	WC-1	Project Manager:	Tracy Ovbey
Samplers:	DEBORAH AYERS|SAIRA BOHAM|	Sampling Event:	Quarterly CAP	Event Type:	Sampling
Date:	01-08-2025	Time:	11:30		

Spl ID	Spl Date	Time	pH	DO	Redox	Turbidity	Spec. Cond.	Temp.	Color	Odor	QA/QC
				mg/L	mV	NTU	µS/cm	°C			
CAP1Q25WC-1-21-010825	01-08-2025 04:00		7.79	9.93	225.10	25.00	176.49	7.63	Clear with debris	No	--

Sampling Data

Sampling Method:	ISCO Composite	Multi Meter Used:	Insitu Aqua Troll
ISCO Start Date and Time:	01-07-2025 08:00	Multi Meter ID:	1172835
ISCO End Date and Time:	01-08-2025 04:00		

WEATHER CONDITIONS	
Temperature (F):	23.00
Sky:	Sunny
Precipitation:	None
Wind (mph)	7

Latitude:	34.8384258538826
Longitude:	-78.8260352739751

GPS Location (if collected)

General Comments:	No liquid detected for samples 22-24; possibly frozen sample tubing
Sample Comments:	

ISCO

Appendix D
Laboratory Reports and
DVM Narratives

ADQM Data Review

Site: Chemours Fayetteville

Project: CAP GW Sampling 1Q25 (updated)

Project Reviewer: Michael Aucoin

Chemours™

Sample Summary

Field Sample ID	Lab Sample ID	Sample Type	Filtered	Sample Date	Sample Time	Sample Purpose
CAP1Q25-OW-28-010925	320-118273-1	Groundwater	N	01/09/2025	15:25	FS
CAP1Q25-OW-33-010925	320-118273-2	Groundwater	N	01/09/2025	13:30	FS
CAP1Q25-PIW-7D-010925	320-118273-3	Groundwater	N	01/09/2025	14:10	FS
CAP1Q25-SMW-10-011525	320-118342-1	Groundwater	N	01/15/2025	16:15	FS
CAP1Q25-SMW-11-011525	320-118342-2	Groundwater	N	01/15/2025	13:00	FS
CAP1Q25-PIW-7S-011525	320-118342-3	Groundwater	N	01/15/2025	15:35	FS
CAP1Q25-PW-09-011625	320-118342-4	Groundwater	N	01/16/2025	13:20	FS
CAP1Q25-PIW-3D-011625	320-118342-5	Groundwater	N	01/16/2025	12:00	FS
CAP1Q25-BLADEN-1DR-011625	320-118342-6	Groundwater	N	01/16/2025	12:10	FS
CAP1Q25-BLADEN-1DR-011625-D	320-118342-7	Groundwater	N	01/16/2025	12:10	DUP
1Q25CAP-OW-51-012725	320-118660-1	Groundwater	N	01/27/2025	12:20	FS
1Q25CAP-OW-51-012725-D	320-118660-2	Groundwater	N	01/27/2025	12:20	DUP
1Q25CAP-OW-32-012325	320-118660-3	Groundwater	N	01/23/2025	15:25	FS
1Q25CAP-OW-55-012325	320-118660-4	Groundwater	N	01/23/2025	12:40	FS
1Q25CAP-LTW-04-012825	320-118660-5	Groundwater	N	01/28/2025	11:30	FS
1Q25CAP-OW-40-012125	320-118661-1	Groundwater	N	01/21/2025	12:55	FS
1Q25CAP-PIW-6S-012925	320-118661-2	Groundwater	N	01/29/2025	14:55	FS
1Q25CAP-OW-56-012025	320-118661-3	Groundwater	N	01/20/2025	11:40	FS
1Q25CAP-OW-30-012325	320-118661-4	Groundwater	N	01/23/2025	12:50	FS
1Q25CAP-PW-06-012325	320-118661-5	Groundwater	N	01/23/2025	16:15	FS
1Q25CAP-LTW-02-012125	320-118661-6	Groundwater	N	01/21/2025	12:05	FS
1Q25CAP-OW-57-012925	320-118661-7	Groundwater	N	01/29/2025	11:40	FS
1Q25CAP-PIW-8D-013025	320-118664-1	Groundwater	N	01/30/2025	11:10	FS
1Q25CAP-EQBLK-PP-013025	320-118664-2	Blank Water	N	01/30/2025	16:40	EB
1Q25CAP-EQBLK-DV-013025	320-118664-3	Blank Water	N	01/30/2025	17:00	EB
1Q25CAP-EQBLK-BP-013025	320-118664-4	Blank Water	N	01/30/2025	16:45	EB
1Q25CAP-EQBLK-BAILER-013025	320-118664-5	Blank Water	N	01/30/2025	16:30	EB
1Q25CAP-LTW-05-012725	320-118667-1	Groundwater	N	01/27/2025	14:00	FS
1Q25CAP-PZ-22-012825	320-118667-2	Groundwater	N	01/28/2025	13:05	FS
1Q25CAP-LTW-01-012825	320-118667-3	Groundwater	N	01/28/2025	15:30	FS
1Q25CAP-PIW-10DR-012925	320-118667-4	Groundwater	N	01/29/2025	11:00	FS
1Q25CAP-PW-11-012925	320-118667-5	Groundwater	N	01/29/2025	14:55	FS
1Q25CAP-PW-10RR-012925	320-118667-6	Groundwater	N	01/29/2025	13:50	FS
1Q25CAP-LTW-03-012925	320-118667-7	Groundwater	N	01/29/2025	16:10	FS
1Q25CAP-OW-4R-012725	320-118673-1	Groundwater	N	01/27/2025	15:45	FS

1Q25CAP-PIW-1D-012325	320-118673-2	Groundwater	N	01/23/2025	15:05	FS
1Q25CAP-OW-37-011725	320-118673-3	Groundwater	N	01/17/2025	09:45	FS
1Q25CAP-PIW-11-012425	320-118673-4	Groundwater	N	01/24/2025	11:05	FS
1Q25CAP-SMW-12-012425	320-118673-5	Groundwater	N	01/24/2025	12:05	FS
1Q25CAP-PW-07-012325	320-118673-6	Groundwater	N	01/23/2025	10:00	FS
1Q25CAP-PW-04-012325	320-118673-7	Groundwater	N	01/23/2025	15:48	FS
CAP1Q25-PIW-15-020325	320-118759-1	Groundwater	N	02/03/2025	11:55	FS
CAP1Q25-EQBLK-PP-020325	320-118759-2	Blank Water	N	02/03/2025	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 GW Sampling 1Q25

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		X	
D	Were samples prepped/analyzed by the laboratory within method holding times?	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	Temperature upon laboratory receipt meets range not frozen to 6 C (manual check)?	X				
G	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.

Sample receipt exceptions were noted by the laboratory as follows:

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): 1Q25CAP-OW-51-012725 (320-118660-1), 1Q25CAP-OW-51-012725 (320-118660-1[MS]) and 1Q25CAP-OW-51-012725 (320-118660-1[MSD]). The COC lists 3 containers but the lab received 9.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): 1Q25CAP-PIW-10DR-012925 (320-118667-4). Sample 4, all containers have ID "-PW-" but COC lists "-PIW-". Samples logged in and labeled according to COC.

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:** CAP GW Sampling 1Q25 **Validation Options:** LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
1Q25CAP-OW-51-012725	01/27/2025	320-118660-1	Perfluorobutanoic Acid	0.22	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-OW-51-012725	01/27/2025	320-118660-1	PFO2HxA	18	ug/L	PQL		0.069	J	537 Modified		3535
1Q25CAP-OW-51-012725	01/27/2025	320-118660-1	PFO3OA	8.2	ug/L	PQL		0.11	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **Validation Options:** LABSTATS

Validation Reason Code: The result exceeds the calibration range of the instrument and should be considered estimated.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q25-PIW-7D-010925	01/09/2025	320-118273-3	PPF Acid	68	UG/L	PQL		0.31	J	537 Modified		3535
CAP1Q25-PIW-7D-010925	01/09/2025	320-118273-3	PFMOAA	120	ug/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-04-012825	01/28/2025	320-118660-5	PPF Acid	61	UG/L	PQL		0.31	J	537 Modified		3535
1Q25CAP-LTW-04-012825	01/28/2025	320-118660-5	PFMOAA	60	ug/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-57-012925	01/29/2025	320-118661-7	PPF Acid	52	UG/L	PQL		0.31	J	537 Modified		3535
1Q25CAP-OW-57-012925	01/29/2025	320-118661-7	PFMOAA	95	ug/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-6S-012925	01/29/2025	320-118661-2	PPF Acid	94	UG/L	PQL		0.31	J	537 Modified		3535
1Q25CAP-PIW-6S-012925	01/29/2025	320-118661-2	PFMOAA	140	ug/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-8D-013025	01/30/2025	320-118664-1	PFO2HxA	63	ug/L	PQL		0.069	J	537 Modified		3535
1Q25CAP-PIW-8D-013025	01/30/2025	320-118664-1	PPF Acid	100	UG/L	PQL		0.31	J	537 Modified		3535
1Q25CAP-PIW-8D-013025	01/30/2025	320-118664-1	PFMOAA	110	ug/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-03-012925	01/29/2025	320-118667-7	PFMOAA	75	ug/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-05-012725	01/27/2025	320-118667-1	PFO2HxA	55	ug/L	PQL		0.069	J	537 Modified		3535
1Q25CAP-LTW-05-012725	01/27/2025	320-118667-1	PPF Acid	110	UG/L	PQL		0.31	J	537 Modified		3535
1Q25CAP-LTW-05-012725	01/27/2025	320-118667-1	PFMOAA	110	ug/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PZ-22-012825	01/28/2025	320-118667-2	PPF Acid	66	UG/L	PQL		0.31	J	537 Modified		3535
1Q25CAP-PZ-22-012825	01/28/2025	320-118667-2	PFMOAA	93	ug/L	PQL		0.063	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **Validation Options:** LABSTATS

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
1Q25CAP-OW-51-012725	01/27/2025	320-118660-1	R-EVE	1.8	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-51-012725-D	01/27/2025	320-118660-2	R-EVE	1.3	UG/L	PQL		0.063	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **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
CAP1Q25-OW-28-010925	01/09/2025	320-118273-1	R-PSDA	0.27	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-OW-28-010925	01/09/2025	320-118273-1	R-EVE	0.16	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-OW-33-010925	01/09/2025	320-118273-2	R-PSDA	0.37	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-OW-33-010925	01/09/2025	320-118273-2	R-EVE	0.22	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-PIW-7D-010925	01/09/2025	320-118273-3	R-PSDA	0.87	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-PIW-7D-010925	01/09/2025	320-118273-3	Hydrolyzed PSDA	1.5	UG/L	PQL		0.16	J	537 Modified		3535
CAP1Q25-PIW-7D-010925	01/09/2025	320-118273-3	R-EVE	0.98	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-PIW-3D-011625	01/16/2025	320-118342-5	R-PSDA	0.85	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-PIW-3D-011625	01/16/2025	320-118342-5	Hydrolyzed PSDA	0.17	UG/L	PQL		0.16	J	537 Modified		3535
CAP1Q25-PIW-3D-011625	01/16/2025	320-118342-5	R-EVE	0.47	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-PIW-7S-011525	01/15/2025	320-118342-3	R-PSDA	1.3	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-PIW-7S-011525	01/15/2025	320-118342-3	R-EVE	1.5	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-SMW-11-011525	01/15/2025	320-118342-2	R-PSDA	0.20	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-SMW-11-011525	01/15/2025	320-118342-2	Hydrolyzed PSDA	0.24	UG/L	PQL		0.16	J	537 Modified		3535
CAP1Q25-SMW-11-011525	01/15/2025	320-118342-2	R-EVE	0.11	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-04-012825	01/28/2025	320-118660-5	R-PSDA	2.8	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-04-012825	01/28/2025	320-118660-5	Hydrolyzed PSDA	3.6	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-LTW-04-012825	01/28/2025	320-118660-5	R-EVE	2.3	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-32-012325	01/23/2025	320-118660-3	R-PSDA	0.37	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-32-012325	01/23/2025	320-118660-3	Hydrolyzed PSDA	0.98	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-OW-32-012325	01/23/2025	320-118660-3	R-EVE	0.27	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-51-012725	01/27/2025	320-118660-1	R-PSDA	1.4	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-51-012725	01/27/2025	320-118660-1	Hydrolyzed PSDA	3.4	UG/L	PQL		0.16	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **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
1Q25CAP-OW-51-012725-D	01/27/2025	320-118660-2	R-PSDA	1.3	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-51-012725-D	01/27/2025	320-118660-2	Hydrolyzed PSDA	3.0	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-OW-55-012325	01/23/2025	320-118660-4	R-PSDA	0.15	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-02-012125	01/21/2025	320-118661-6	R-PSDA	1.2	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-02-012125	01/21/2025	320-118661-6	Hydrolyzed PSDA	2.8	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-LTW-02-012125	01/21/2025	320-118661-6	R-EVE	0.68	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-30-012325	01/23/2025	320-118661-4	R-PSDA	0.64	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-30-012325	01/23/2025	320-118661-4	Hydrolyzed PSDA	0.94	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-OW-30-012325	01/23/2025	320-118661-4	R-EVE	0.47	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-40-012125	01/21/2025	320-118661-1	R-PSDA	0.50	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-40-012125	01/21/2025	320-118661-1	Hydrolyzed PSDA	0.26	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-OW-40-012125	01/21/2025	320-118661-1	R-EVE	0.35	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-56-012025	01/20/2025	320-118661-3	R-PSDA	0.38	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-56-012025	01/20/2025	320-118661-3	R-EVE	0.20	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-57-012925	01/29/2025	320-118661-7	R-PSDA	1.6	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-57-012925	01/29/2025	320-118661-7	Hydrolyzed PSDA	27	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-OW-57-012925	01/29/2025	320-118661-7	R-EVE	0.26	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-6S-012925	01/29/2025	320-118661-2	R-PSDA	1.9	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-6S-012925	01/29/2025	320-118661-2	Hydrolyzed PSDA	13	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-PIW-6S-012925	01/29/2025	320-118661-2	R-EVE	0.81	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-8D-013025	01/30/2025	320-118664-1	R-PSDA	3.7	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-8D-013025	01/30/2025	320-118664-1	Hydrolyzed PSDA	6.4	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-PIW-8D-013025	01/30/2025	320-118664-1	R-EVE	2.6	UG/L	PQL		0.063	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **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
1Q25CAP-LTW-01-012825	01/28/2025	320-118667-3	R-PSDA	1.1	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-01-012825	01/28/2025	320-118667-3	Hydrolyzed PSDA	0.76	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-LTW-01-012825	01/28/2025	320-118667-3	R-EVE	0.52	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-03-012925	01/29/2025	320-118667-7	R-PSDA	1.0	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-03-012925	01/29/2025	320-118667-7	Hydrolyzed PSDA	8.0	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-LTW-03-012925	01/29/2025	320-118667-7	R-EVE	0.40	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-05-012725	01/27/2025	320-118667-1	R-PSDA	2.1	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-LTW-05-012725	01/27/2025	320-118667-1	Hydrolyzed PSDA	3.5	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-LTW-05-012725	01/27/2025	320-118667-1	R-EVE	2.0	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-OW-37-011725	01/17/2025	320-118673-3	R-PSDA	0.80	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-OW-37-011725	01/17/2025	320-118673-3	Hydrolyzed PSDA	0.56	UG/L	PQL		0.078	J	537 Modified		3535
1Q25CAP-OW-37-011725	01/17/2025	320-118673-3	R-EVE	0.57	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-OW-4R-012725	01/27/2025	320-118673-1	R-PSDA	0.88	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-OW-4R-012725	01/27/2025	320-118673-1	Hydrolyzed PSDA	3.8	UG/L	PQL		0.078	J	537 Modified		3535
1Q25CAP-OW-4R-012725	01/27/2025	320-118673-1	R-EVE	0.70	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-PIW-10DR-012925	01/29/2025	320-118667-4	R-PSDA	0.77	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-10DR-012925	01/29/2025	320-118667-4	Hydrolyzed PSDA	2.7	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-PIW-10DR-012925	01/29/2025	320-118667-4	R-EVE	0.53	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PIW-11-012425	01/24/2025	320-118673-4	R-PSDA	0.29	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-PIW-11-012425	01/24/2025	320-118673-4	R-EVE	0.18	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-PIW-1D-012325	01/23/2025	320-118673-2	R-PSDA	0.72	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-PIW-1D-012325	01/23/2025	320-118673-2	R-EVE	0.50	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-PW-04-012325	01/23/2025	320-118673-7	R-PSDA	0.082	UG/L	PQL		0.031	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **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
1Q25CAP-PW-04-012325	01/23/2025	320-118673-7	R-EVE	0.070	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-PW-07-012325	01/23/2025	320-118673-6	R-PSDA	0.11	UG/L	PQL		0.0020	J	537 Modified		3535
1Q25CAP-PW-07-012325	01/23/2025	320-118673-6	R-EVE	0.051	UG/L	PQL		0.0020	J	537 Modified		3535
1Q25CAP-PW-10RR-012925	01/29/2025	320-118667-6	R-PSDA	0.070	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PW-10RR-012925	01/29/2025	320-118667-6	R-EVE	0.080	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PW-11-012925	01/29/2025	320-118667-5	R-PSDA	0.40	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PW-11-012925	01/29/2025	320-118667-5	Hydrolyzed PSDA	0.91	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-PW-11-012925	01/29/2025	320-118667-5	R-EVE	0.12	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PZ-22-012825	01/28/2025	320-118667-2	R-PSDA	0.87	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-PZ-22-012825	01/28/2025	320-118667-2	Hydrolyzed PSDA	4.0	UG/L	PQL		0.16	J	537 Modified		3535
1Q25CAP-PZ-22-012825	01/28/2025	320-118667-2	R-EVE	0.42	UG/L	PQL		0.063	J	537 Modified		3535
1Q25CAP-SMW-12-012425	01/24/2025	320-118673-5	R-PSDA	0.17	UG/L	PQL		0.031	J	537 Modified		3535
1Q25CAP-SMW-12-012425	01/24/2025	320-118673-5	R-EVE	0.13	UG/L	PQL		0.031	J	537 Modified		3535
CAP1Q25-PIW-15-020325	02/03/2025	320-118759-1	R-PSDA	0.44	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-PIW-15-020325	02/03/2025	320-118759-1	R-EVE	0.35	UG/L	PQL		0.063	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **Validation Options:** LABSTATS

Validation Reason Code: The ion ratio for the compound differed from the expected ion ratio by more than 50%. The reported positive result has been qualified "J" and should be considered estimated.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
1Q25CAP-PW-11-012925	01/29/2025	320-118667-5	PFOA	0.063	UG/L	PQL		0.063	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP GW Sampling 1Q25 **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
CAP1Q25-PIW-15-020325	02/03/2025	320-118759-1	Hfpo Dimer Acid	10	UG/L	PQL		0.13	J	537 Modified		3535

ADQM Data Review

Site: Chemours Fayetteville

Project: CAP SW Sampling 1Q25 (select lots)

Project Reviewer: Michael Aucoin

Chemours™

Sample Summary

Field Sample ID	Lab Sample ID	Sample Type	Filtered	Sample Date	Sample Time	Sample Purpose
CAP1Q25-SEEP-C-EFF-16-010825	320-118153-1	Surface Water	N	01/08/2025	01:06	FS
CAP1Q25-EQBLK-IS-010825	320-118153-10	Blank Water	N	01/08/2025	14:35	EB
CAP1Q25-WC-1-21-010825	320-118153-2	Surface Water	N	01/08/2025	04:00	FS
CAP1Q25-WC-2-16-010725	320-118153-3	Surface Water	N	01/07/2025	23:00	FS
CAP1Q25-WC-3-20-010825	320-118153-4	Surface Water	N	01/08/2025	03:00	FS
CAP1Q25-OLDOF-1-8-010725	320-118153-5	Surface Water	N	01/07/2025	16:36	FS
CAP1Q25-CFR-RM-76-010725	320-118153-6	Surface Water	N	01/07/2025	09:25	FS
CAP1Q25-GBC-1-010725	320-118153-7	Surface Water	N	01/07/2025	14:40	FS
CAP1Q25-CFR-BLADEN-010725	320-118153-8	Surface Water	N	01/07/2025	15:30	FS
CAP1Q25-EQBLK-PP-010825	320-118153-9	Blank Water	N	01/08/2025	14:30	EB
CAP1Q25-OUTFALL-002-24-010825	320-118154-1	Surface Water	N	01/08/2025	08:00	FS
CAP1Q25-OUTFALL-002-24-010825	320-118154-2	Surface Water	N	01/08/2025	08:00	FS
CAP1Q25-LOCK-DAM-SEEP-010725	320-118154-3	Surface Water	N	01/07/2025	11:00	FS
CAP1Q25-LOCK-DAM-NORTH-010725	320-118154-4	Surface Water	N	01/07/2025	11:15	FS
CAP1Q25-CFR-TARHEEL-24-010925	320-118193-1	Surface Water	N	01/09/2025	16:42	FS
CAP1Q25-CFR-TARHEEL-010825	320-118193-2	Surface Water	N	01/08/2025	14:00	FS
RIVER-WATER-INTAKE-18-010925	320-118193-3	Surface Water	N	01/09/2025	03:32	FS
RIVER-WATER-INTAKE-010825	320-118193-4	Surface Water	N	01/08/2025	10:30	FS
CAP1Q25-CFR-KINGS-011325	320-118272-1	Surface Water	N	01/13/2025	10:48	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 SW Sampling 1Q25

Chemours™

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		X	
D	Were samples prepped/analyzed by the laboratory within method holding times?	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	Temperature upon laboratory receipt meets range not frozen to 6 C (manual check)?	X				
G	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:** CAP SW Sampling 1Q25 **Validation Options:** LABSTATS

Validation Reason Code: Surrogates had relative percent recovery (RPR) values greater than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q25-OLDOF-1-8-010725	01/07/2025	320-118153-5	PPF Acid	1.3	UG/L	PQL		0.022	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP SW Sampling 1Q25 **Validation Options:** LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CAP1Q25-OUTFALL-002-24-010825	01/08/2025	320-118154-1	R-PSDA	0.016	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OUTFALL-002-24-010825	01/08/2025	320-118154-2	R-PSDA	0.014	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OUTFALL-002-24-010825	01/08/2025	320-118154-1	Hydrolyzed PSDA	0.086	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OUTFALL-002-24-010825	01/08/2025	320-118154-2	Hydrolyzed PSDA	0.085	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OUTFALL-002-24-010825	01/08/2025	320-118154-1	R-EVE	0.0097	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OUTFALL-002-24-010825	01/08/2025	320-118154-2	R-EVE	0.0064	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP SW Sampling 1Q25 **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
CAP1Q25-CFR-BLADEN-010725	01/07/2025	320-118153-8	R-PSDA	0.014	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-CFR-BLADEN-010725	01/07/2025	320-118153-8	Hydrolyzed PSDA	0.0029	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-GBC-1-010725	01/07/2025	320-118153-7	R-PSDA	0.066	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-GBC-1-010725	01/07/2025	320-118153-7	R-EVE	0.031	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OLDOF-1-8-010725	01/07/2025	320-118153-5	R-PSDA	0.017	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OLDOF-1-8-010725	01/07/2025	320-118153-5	Hydrolyzed PSDA	0.025	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-OLDOF-1-8-010725	01/07/2025	320-118153-5	R-EVE	0.0075	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-1-21-010825	01/08/2025	320-118153-2	R-PSDA	0.049	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-1-21-010825	01/08/2025	320-118153-2	Hydrolyzed PSDA	0.20	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-1-21-010825	01/08/2025	320-118153-2	R-EVE	0.026	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-2-16-010725	01/07/2025	320-118153-3	R-PSDA	0.037	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-2-16-010725	01/07/2025	320-118153-3	Hydrolyzed PSDA	0.026	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-2-16-010725	01/07/2025	320-118153-3	R-EVE	0.023	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-3-20-010825	01/08/2025	320-118153-4	R-PSDA	0.028	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-WC-3-20-010825	01/08/2025	320-118153-4	R-EVE	0.014	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-LOCK-DAM-NORTH-010725	01/07/2025	320-118154-4	R-PSDA	0.18	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-LOCK-DAM-NORTH-010725	01/07/2025	320-118154-4	R-EVE	0.10	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-LOCK-DAM-SEEP-010725	01/07/2025	320-118154-3	R-PSDA	0.57	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-LOCK-DAM-SEEP-010725	01/07/2025	320-118154-3	Hydrolyzed PSDA	0.47	UG/L	PQL		0.16	J	537 Modified		3535
CAP1Q25-LOCK-DAM-SEEP-010725	01/07/2025	320-118154-3	R-EVE	0.19	UG/L	PQL		0.063	J	537 Modified		3535
CAP1Q25-CFR-TARHEEL-24-010925	01/09/2025	320-118193-1	Hydrolyzed PSDA	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-CFR-KINGS-011325	01/13/2025	320-118272-1	R-PSDA	0.0041	UG/L	PQL		0.0020	J	537 Modified		3535
CAP1Q25-CFR-KINGS-011325	01/13/2025	320-118272-1	Hydrolyzed PSDA	0.0045	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** CAP SW Sampling 1Q25 **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
CAP1Q25-CFR-KINGS-011325	01/13/2025	320-118272-1	R-EVE	0.0069	UG/L	PQL		0.0020	J	537 Modified		3535
RIVER-WATER-INTAKE-010825	01/08/2025	320-118193-4	R-PSDA	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
RIVER-WATER-INTAKE-010825	01/08/2025	320-118193-4	Hydrolyzed PSDA	0.0079	UG/L	PQL		0.0020	J	537 Modified		3535
RIVER-WATER-INTAKE-18-010925	01/09/2025	320-118193-3	R-PSDA	0.0044	UG/L	PQL		0.0020	J	537 Modified		3535
RIVER-WATER-INTAKE-18-010925	01/09/2025	320-118193-3	Hydrolyzed PSDA	0.011	UG/L	PQL		0.0020	J	537 Modified		3535

ADQM Data Review

Site: Chemours Fayetteville

Project: Tarheel Sampling 1Q25 updated

Project Reviewer: Michael Aucoin

Chemours™

Sample Summary

Field Sample ID	Lab Sample ID	Sample Type	Filtered	Sample Date	Sample Time	Sample Purpose
CFR-TARHEEL-24-010225	320-118070-4	Surface Water	N	01/02/2025	23:01	FS
CFR-TARHEEL-24-010625	320-118274-1	Surface Water	N	01/06/2025	23:01	FS
CFR-TARHEEL-24-010925	320-118274-2	Surface Water	N	01/09/2025	23:01	FS
CFR-TARHEEL-24-011325	320-118405-1	Surface Water	N	01/13/2025	23:01	FS
CFR-TARHEEL-24-011625	320-118405-2	Surface Water	N	01/16/2025	23:01	FS
CFR-TARHEEL-24-011425	320-118670-1	Surface Water	N	01/14/2025	23:01	FS
CFR-TARHEEL-24-011425-D	320-118670-2	Surface Water	N	01/14/2025	23:01	DUP
CFR-TARHEEL-24-012025	320-118672-1	Surface Water	N	01/20/2025	23:01	FS
CFR-TARHEEL-24-012425	320-118672-2	Surface Water	N	01/24/2025	23:01	FS
CFR-TARHEEL-24-012725	320-118761-1	Surface Water	N	01/27/2025	23:01	FS
CFR-TARHEEL-24-013125	320-118761-2	Surface Water	N	01/31/2025	23:01	FS
CFR-TARHEEL-24-020325	320-118914-1	Surface Water	N	02/03/2025	23:01	FS
CFR-TARHEEL-24-020625	320-118914-2	Surface Water	N	02/06/2025	23:01	FS
CFR-TARHEEL-24-021025	320-119085-1	Surface Water	N	02/10/2025	23:01	FS
CFR-TARHEEL-24-021025-D	320-119085-2	Surface Water	N	02/10/2025	23:01	DUP
CFR-TARHEEL-24-021325	320-119085-3	Surface Water	N	02/13/2025	23:01	FS
CFR-TARHEEL-24-021825	320-119258-1	Surface Water	N	02/18/2025	23:01	FS
CFR-TARHEEL-24-022125	320-119258-2	Surface Water	N	02/21/2025	23:01	FS
CFR-TARHEEL-22-022425	320-119574-1	Surface Water	N	02/24/2025	21:01	FS
CFR-TARHEEL-24-022825	320-119574-2	Surface Water	N	02/28/2025	23:01	FS
CFR-TARHEEL-24-030325	320-119719-1	Surface Water	N	03/03/2025	23:01	FS
CFR-TARHEEL-24-030625	320-119719-2	Surface Water	N	03/06/2025	23:01	FS
CFR-TARHEEL-24-031025	320-119879-1	Surface Water	N	03/10/2025	23:01	FS
CFR-TARHEEL-24-031125	320-119879-2	Surface Water	N	03/11/2025	23:01	FS

CFR-TARHEEL-24-031225	320-119879-3	Surface Water	N	03/12/2025	23:01	FS
CFR-TARHEEL-24-031225-D	320-119879-4	Surface Water	N	03/12/2025	23:01	DUP
CFR-TARHEEL-24-031325	320-119879-5	Surface Water	N	03/13/2025	23:01	FS
CFR-TARHEEL-24-031725	320-120087-1	Surface Water	N	03/17/2025	23:01	FS
CFR-TARHEEL-24-032025	320-120087-2	Surface Water	N	03/20/2025	23:01	FS
CFR-TARHEEL-24-032425	320-120225-1	Surface Water	N	03/24/2025	23:01	FS
CFR-TARHEEL-24-032725	320-120225-2	Surface Water	N	03/27/2025	23:01	FS
CFR-TARHEEL-24-033125	320-120452-1	Surface Water	N	03/31/2025	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)	2025 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				
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				
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	Temperature upon laboratory receipt meets range not frozen to 6 C (manual check)?	X				
G	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:** 2025 Tarheel Sampling **Validation Options:** LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
CFR-TARHEEL-22-022425	02/24/2025	320-119574-1	R-PSDA	0.0074	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-22-022425	02/24/2025	320-119574-1	R-EVE	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-010925	01/09/2025	320-118274-2	R-PSDA	0.0020	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-010925	01/09/2025	320-118274-2	Hydrolyzed PSDA	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-011325	01/13/2025	320-118405-1	R-PSDA	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-011325	01/13/2025	320-118405-1	Hydrolyzed PSDA	0.0037	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-011425	01/14/2025	320-118670-1	Hydrolyzed PSDA	0.0040	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-021025	02/10/2025	320-119085-1	Hydrolyzed PSDA	0.0029	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030625	03/06/2025	320-119719-2	R-PSDA	0.0036	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030625	03/06/2025	320-119719-2	Hydrolyzed PSDA	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030625	03/06/2025	320-119719-2	R-EVE	0.0020	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031225	03/12/2025	320-119879-3	Hydrolyzed PSDA	0.0023	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031725	03/17/2025	320-120087-1	R-PSDA	0.0078	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031725	03/17/2025	320-120087-1	Hydrolyzed PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031725	03/17/2025	320-120087-1	R-EVE	0.0033	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** 2025 Tarheel Sampling **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
CFR-TARHEEL-24-010625	01/06/2025	320-118274-1	R-PSDA	0.0027	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-010625	01/06/2025	320-118274-1	Hydrolyzed PSDA	0.0044	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-011425-D	01/14/2025	320-118670-2	Hydrolyzed PSDA	0.0049	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-011625	01/16/2025	320-118405-2	Hydrolyzed PSDA	0.0035	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012025	01/20/2025	320-118672-1	Hydrolyzed PSDA	0.0057	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012025	01/20/2025	320-118672-1	R-EVE	0.0024	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012425	01/24/2025	320-118672-2	Hydrolyzed PSDA	0.0061	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012725	01/27/2025	320-118761-1	R-PSDA	0.0029	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012725	01/27/2025	320-118761-1	Hydrolyzed PSDA	0.0049	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-012725	01/27/2025	320-118761-1	R-EVE	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-013125	01/31/2025	320-118761-2	R-PSDA	0.0046	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-013125	01/31/2025	320-118761-2	Hydrolyzed PSDA	0.0043	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-013125	01/31/2025	320-118761-2	R-EVE	0.0029	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-020325	02/03/2025	320-118914-1	Hydrolyzed PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-021025-D	02/10/2025	320-119085-2	R-PSDA	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-021025-D	02/10/2025	320-119085-2	Hydrolyzed PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-022825	02/28/2025	320-119574-2	R-PSDA	0.0057	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-022825	02/28/2025	320-119574-2	R-PSDA	0.0020	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-022825	02/28/2025	320-119574-2	R-EVE	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030325	03/03/2025	320-119719-1	R-PSDA	0.0076	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030325	03/03/2025	320-119719-1	R-PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030325	03/03/2025	320-119719-1	Hydrolyzed PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-030325	03/03/2025	320-119719-1	R-EVE	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535

Site: Fayetteville **Sampling Program:** 2025 Tarheel Sampling **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
CFR-TARHEEL-24-031125	03/11/2025	320-119879-2	R-PSDA	0.0059	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031125	03/11/2025	320-119879-2	Hydrolyzed PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031125	03/11/2025	320-119879-2	R-EVE	0.0032	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031225-D	03/12/2025	320-119879-4	R-PSDA	0.0039	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031225-D	03/12/2025	320-119879-4	Hydrolyzed PSDA	0.0026	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031225-D	03/12/2025	320-119879-4	R-EVE	0.0022	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031325	03/13/2025	320-119879-5	Hydrolyzed PSDA	0.0027	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-031325	03/13/2025	320-119879-5	R-EVE	0.0032	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032425	03/24/2025	320-120225-1	R-PSDA	0.0051	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032425	03/24/2025	320-120225-1	R-PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032425	03/24/2025	320-120225-1	Hydrolyzed PSDA	0.0025	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032425	03/24/2025	320-120225-1	R-EVE	0.0045	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032425	03/24/2025	320-120225-1	R-EVE	0.0030	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032725	03/27/2025	320-120225-2	R-PSDA	0.018	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032725	03/27/2025	320-120225-2	R-PSDA	0.0027	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032725	03/27/2025	320-120225-2	Hydrolyzed PSDA	0.0021	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-032725	03/27/2025	320-120225-2	R-EVE	0.0033	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-033125	03/31/2025	320-120452-1	R-PSDA	0.0031	UG/L	PQL		0.0020	J	537 Modified		3535
CFR-TARHEEL-24-033125	03/31/2025	320-120452-1	Hydrolyzed PSDA	0.0028	UG/L	PQL		0.0020	J	537 Modified		3535