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# INTERIM SEEP REMEDIATION OPERATION AND MAINTENANCE REPORT #6

## Chemours Fayetteville Works

*Prepared for*

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## **EXECUTIVE SUMMARY**

This Operations and Maintenance Report #6 (O&M Report #6) has been prepared to document the operations, maintenance, and performance of the flow-through cells at Seeps A, B, C, and D from November 1 through December 31, 2021. The median flow rate processed by the Seep A, B, and C, and D FTCs was 82, 145, 30, and 104 gallons per minute (gpm), respectively. As documented in the previous O&M Reports #1 through #5, the FTC systems are capable of capturing total base flow under favorable hydraulic conditions, and additionally capture and treat a portion of wet weather flow as well. In total, over the two-month reporting period, the systems processed approximately 36,200,000 gallons of seep flow. Composite samples from performance monitoring indicated that the average PFAS removal efficiency of the captured base flow was approximately 99.65%, and the FTCs are estimated to have prevented approximately 50.2 pounds (lbs) of PFAS from being discharged to the Cape Fear River in the reporting period, and 230.9 lbs of PFAS over the lifetime of the systems to date.

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## LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
CO Addendum	Addendum to Consent Order Paragraph 12
DB	Discharge Basin
DO	Dissolved oxygen
ESB	Effluent Stilling Basin
FB1	Filter Bed-1
FB2	Filter Bed-2
FTC	flow-through cell
ft msl	feet mean sea level
GAC	granular activated carbon
gpm	gallons per minute
HDPE	high-density polyethylene
HFPO-DA	hexafluoropropylene oxide dimer
IC	Inlet Chamber
IP	Individual Permit
ISB	Influent Stilling Basin
lbs	pounds
mg/L	milligrams per liter
ng/L	nanograms per liter
NTU	nephelometric turbidity units
O&M	Operation and Maintenance
PFAS	per- and polyfluoroalkyl substances
PFD	Process Flow Diagram
PFMOAA	perfluoro-2-methoxyacetic acid
PMPA	perfluoromethoxypropyl carboxylic acid
TB	Transfer Basin
TSS	total suspended solids
USGS	United States Geological Survey

## 1. INTRODUCTION

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this Interim Seep Remediation Operation and Maintenance (O&M) Report #6 (“O&M Report #6”) on behalf of The Chemours Company FC, LLC (Chemours) to provide a summary report of Operations and Maintenance for the flow-through cells (FTCs) installed as the interim remediation systems at Seeps A, B, C and D at the Chemours Fayetteville Works Site (the Site). This O&M Report #6 has been prepared for the operational period of November 1 through December 31, 2021. The next O&M Report (#7) will cover the bimonthly period of January 1 through February 28, 2022.

As the O&M Report #1 from March 31, 2021 presented FTC performance data for the first time, detailed information was provided on the hydraulic mechanics of the system, flood management practices, data collection methodology and reduction process, and flow calculation formulas. As a simplifying step for presentation clarity, at various sections in this O&M Report #6, reference is made to these details in O&M Report #1. For an overview of the hydraulic functionality of the system, see Section 1.1 of O&M Report #1.

## 2. INSPECTIONS, OPERATION, AND MAINTENANCE

The following sections describe the inspections, operation, and maintenance activities completed at the four FTCs during the current reporting period (November 1 through December 31, 2021).

### 2.1 Inspections

Per the CO Addendum, routine inspections occurred on a weekly basis (at a minimum), and also occurred after 0.5 inches or greater rain events within a 24-hour period. An Inspection Form was filled out by operation, maintenance, and monitoring personnel during each inspection.

The routine inspections included, but were not limited to:

- documenting the system duty cycle (i.e., lead/lag orientation of the GAC filter beds)
- measuring and collecting operational parameters/data, notably water elevation data that are used to evaluate influent flowrate and the occurrence (if any) of bypass
- documenting any potential observed issues, such as sediment accumulation in the impoundment basin, structural problems, GAC fouling, and debris that is impairing flow through the system
- inspecting the autosamplers
- photographing the conditions observed, including any bypass flow

A summary of the inspection and maintenance events completed during this reporting period is provided in Tables 1a-d for Seeps A-D, respectively. Further details of these events are provided in the following subsections.

### 2.2 Duty Cycling

As described in Section 1.1 of the O&M Report #1, the Seep FTCs are constructed of two filter beds which operate in series. Tables 1a-d detail the filter bed configurations for Seeps A, B, C, and D over the reporting period of November 1 through December 31, 2021. The approximate number of days each filter bed was in lead during the reporting period for Seeps A, B, C, and D is summarized in the table below:

Seep	FB1 Lead (days)	FB2 Lead (days)	Total Uptime in Reporting Period (days)
A	41	20	61
B	0	61	61
C	45	16	61
D	42	19	61

### 2.3 FTC Management During River Flooding

As described in the Interim Seeps Remediation System Plan (Geosyntec, 2020), to treat total base flow of each seep, it was necessary to install the interim remedies within the floodway. The historical river elevations were referenced to develop the design elevations of key features such as the spillway and the top of the wall. Additionally, an action level was developed for autosampler removal to prevent damage to electronic components by flood waters. Based on a review of the historical record, a W.O. Huske Lock and Dam gage height of 10 feet (or approximately 38 feet above mean sea level) was selected as the action level for removing autosamplers. Review of historical river stage data indicated that once the river level exceeded this action level, it would typically continue to rise past the level of the FTC walls.

The Cape Fear River was below the action level during the full reporting period (November 1 through December 31, 2021). More details regarding the Cape Fear River are described in Section 4.5.

### 2.4 Material Changeouts

As discussed in the Interim Seeps Remediation System Plan (Geosyntec, 2020), when breakthrough monitoring sampling indicated the concentration of PFAS in the midpoint of the system reached approximately 30% of the concentration of PFAS in the influent, a GAC changeout was scheduled. The table below summarizes the material changeouts through this reporting period:

Seep	Filter Bed	GAC Changeout	
		Date	(GAC Age/Lead Days)
A	FB2	December 2, 2021	98/21
C	FB1	December 15, 2021	76/63
D	FB2	November 19, 2021	149/25.5

### 2.5 Issues Encountered and Resolutions

Observations from routine inspections noted fine-grained sediment with the addition of algae and bacterial debris accumulating on the surface of the filter beds, especially in the lead filter bed. As documented in O&M Reports #1 through #5, sediment management techniques were developed and refined, including:

- Scrubbing and vacuuming the geocomposite layer above the GAC.
- Periodic replacement of both the geocomposite and the top few inches of GAC underneath the geocomposite.
- Installation of a turbidity curtain in the upstream impoundment.



- Installation of rip rap aprons in front of the FTC inlet chambers with geocomposite above the rip rap, to provide additional surface area for sediment deposition prior to entering the flow-through cell.
- Addition of masonry sand on top of the stone layer in the Inlet Chamber (IC) to reduce sediment loading into the filter beds.
- Installation of tarps to cover all FTC chambers, most notably the filter beds, to reduce sunlight reaching the geocomposite layer and minimize algae growth.
- Application of GreenClean®, a commercial biocide, to the inlet basins and lead filter bed to reduce algae and/or bacterial growth.

The above measures will be continually adopted to minimize flow impairment in the FTC systems.

### **3. DATA COLLECTED**

The FTC includes design components to measure water levels in the system, precipitation, water quality, and PFAS removal performance. The W.O. Huske Lock and Dam gage station is also used to reference nearby precipitation and river levels.

#### **3.1 Pressure Transducers**

The IC and Effluent Stilling Basin (ESB) are each equipped with a stilling well in which a non-vented Levelogger® is installed below the operational water level. The water levels acquired from processing the transducer data are used to estimate flows the system processes, and to record the occurrence of flow that is diverted past the system via the Bypass Spillway. Section 4.1 of the O&M Report #1 describes the process used to calculate the flowrates through the FTC based on the water levels.

The pressure transducer data were downloaded regularly as part of routine inspections (weekly at a minimum). Additionally, manual water level measurements were collected in the basins and stilling wells whenever transducers were downloaded to equilibrate the transducer readings (discussed in Section 4.1).

#### **3.2 Rainfall and River Stage**

Precipitation and river stage are monitored by using the United States Geological Survey (USGS) weather monitoring station at the W.O. Huske Dam (gage 02105500). This station is approximately 1,200 feet from Seep C and records precipitation and river elevation data every 15 minutes. For the majority of this reporting period (November 13 to December 20), the Seep C local rain gauge telemetry data consistently recorded 0 inches of rain and did not provide accurate rainfall results. The Seep A rain gauge telemetry data was comparable to the USGS precipitation data. Currently, telemetry equipment at Seeps B and D is not installed. In future reports, when all telemetry systems are installed and operating correctly, rainfall telemetry data from all four Seeps will be included.

#### **3.3 Operational and Treatment Performance Monitoring**

Operational and performance monitoring of the system includes the composite collection of water samples from various locations in the system, and direct measurement of water quality parameters. The operational and performance monitoring is completed on a regular basis to evaluate:

- PFAS removal efficiency (i.e., performance monitoring)
- breakthrough of PFAS compounds between GAC filter beds, using grab samples on an as-needed basis (i.e., breakthrough monitoring)
- water quality parameters specified in the CO Addendum
- potential effects of 0.5-inch rain events on PFAS concentrations (i.e., wet weather monitoring)

### 3.3.1 Performance Monitoring

Composite samples for performance monitoring are collected using portable, battery-powered autosamplers (e.g., Teledyne ISCO 6712 Full-Size Portable Sampler). At the end of the sampling period, the operation, maintenance, and monitoring personnel fill laboratory-supplied sample containers from the common container within the autosampler. Sampling is conducted in accordance with the PFAS Quality Assurance Project Plan (AECOM, 2018). Any adjustments made to address potential deficiencies (e.g., low battery power, river flooding) are documented on the Inspection Form.

During this reporting period, four performance monitoring samples were collected for Seeps A, B, and D, and five performance monitoring samples each were collected for Seep C (Table 2). The performance monitoring sample pairs for Seep C included five effluent samples and four influent samples (see Section 3.4.2 for details). Dates of composite periods for each sample are listed in Table 2.

Samples were stored on wet ice in a cooler until shipment to an external laboratory (Eurofins TestAmerica Laboratories Sacramento or Lancaster). Chain-of-custody documents were completed and included with each shipment. Performance monitoring samples were analyzed for Table 3+ PFAS, as outlined in the *Interim Seep Remediation System Plan* (Geosyntec, 2020).

### 3.3.2 Breakthrough Monitoring

Grab samples were collected from the IC, TB, and ESB at Seeps A-D for evaluation of system performance and the need for GAC changeouts. Eight breakthrough monitoring samples each were collected from Seeps A and C during this reporting period, seven breakthrough monitoring samples were collected from Seep B, and six breakthrough monitoring samples were collected from Seep D during this reporting period (29 total).

### 3.3.3 Water Quality Monitoring

The water quality in the IC and ESB at Seeps A-D was monitored at the same minimum frequency as performance monitoring described above – at least twice per month. Dissolved oxygen (DO), pH, turbidity, specific conductivity, temperature, and total suspended solids (TSS) were measured using a calibrated In-Situ Aqua TROLL 500 Multiparameter Sonde.

### 3.3.4 Rain Event Monitoring

Wet weather samples were collected at a frequency of once per calendar month following a rain event of at least 0.5 inches within a 24-hour period. Composite samples for wet weather monitoring are collected using Teledyne ISCO 6712 Full-Size Portable Samplers (the same make and model as performance monitoring discussed above, but a dedicated set for wet weather sampling only). The wet weather autosamplers are equipped with Teledyne 674 rain gauges that measure rainfall depth. When rainfall exceeds 0.5 inches in a 24-hour period, the rain gauge sends a signal to the Teledyne 6712 to begin a sampling cycle, where the autosampler collects aliquots every hour for

24 hours. Operation, maintenance, and monitoring personnel fill sample containers and follow the same sample collection protocols for wet weather as described in Section 3.3.1 above.

Wet weather monitoring samples were analyzed for Table 3+ PFAS, as outlined in the *Interim Seep Remediation System Plan* (Geosyntec, 2020). Table 2 lists the wet weather samples collected at Seeps A-D during the reporting period and the associated cumulative rainfall prior to the sampling timeframe.

### **3.4 Deviations**

Deviations for each of the data types collected are described below.

#### **3.4.1 Transducer Monitoring Deviations**

One instance of a transducer download was unsuccessful during this reporting period:

- (1) The influent transducer data at Seep A and effluent transducer data at Seep D was inadvertently overwritten during retrieval on the November 15 O&M field event. Data for these locations was lost for November 8 through November 15, 2021.

#### **3.4.2 Performance Monitoring and Wet Weather Sampling Deviations**

The planned number of performance monitoring samples were collected at Seeps A-D per the Interim Seep Remediation Plan (Geosyntec, 2020). Deviations in sample composite lengths are described below.

- The 14-day effluent composite sample for Seep C that started on October 29 was left incomplete on November 2, once it was realized that the tubing in the autosampler was incorrectly placed. To maintain the sampling program, the operation, maintenance, and monitoring staff re-programmed the autosampler to collect two 24-hour effluent composite samples (November 5 and November 12) for the first half of November.

The required wet weather samples for November and December were collected at Seeps A-D per the Interim Seep Remediation Plan (Geosyntec, 2020).

## 4. RESULTS

The results for each type of data collected are described in detail in the following subsections. A brief overview of the results is as follows:

<b>Reporting Period Metric</b>	<b>Seep A</b>	<b>Seep B</b>	<b>Seep C</b>	<b>Seep D</b>	<b>Total</b>
Duration	61 days ( <i>November 1 - December 31, 2021</i> )				
Rainfall, Actual (in)	2.78 ( <i>November 1 - December 31, 2021</i> )				
Rainfall, Historical Average (in)	7.24 ( <i>November 1 - December 31, 2004-2020</i> )				
River Above Spillway (days)	0	0	0	0	N/A
Operational Period (days)	61	61	61	61	N/A
Median Flow Rate (gpm)	82	145	30	104	361
Seep Volume Treated (gallons)	9,300,000	13,600,000	3,000,000	10,300,000	36,200,000
PFAS Removed (lbs)	11.64	28.70	2.25	7.66	50.2
GAC Replaced (lbs)	18,000	0	6,000	18,000	42,000

### 4.1 System Flowrates and Operational Periods

#### 4.1.1 System Flowrate

A detailed discussion of pressure transducer water level measurements in the Effluent Stilling Basin, and the data reduction process to convert these levels to flow rates, is provided in Sections 3.1, 3.4.1, and 4.1.1 of O&M Report #1. This data reduction process, updated for the current reporting period, is provided in Appendix A. Figures 2a-d show the measurable flowrates through the FTC over the reporting period for Seeps A-D, respectively.

The flowrate statistics calculated from measurable discharge flowrates for Seeps A-D for the current reporting period are tabulated below:

Flowrate Metric	Seep A	Seep B	Seep C	Seep D
Median Flow Rate (gpm) during the Reporting Period	82	145	30	104
95 <sup>th</sup> percentile Flow Rate (gpm) during the Reporting Period	275	263	76	339
Design Basis Flow Rate * (gpm)	205	226	76	183

\* The design basis flow rate was selected as the 95<sup>th</sup> percentile value of dry weather base flow from flume pre-design data.

Using the measured and extrapolated flowrate calculations, approximately 9,300,000 gallons, 13,600,000 gallons, 3,000,000 gallons, and 10,300,000 gallons of water (36,200,000 gallons total) were treated by the Seeps A, B, C, and D FTCs, respectively, from November 1 through December 31, 2021.

#### 4.1.2 Bypass Flow

A discussion of pressure transducer water level measurements in the FTC Influent Stilling Basin (ISB), and the data reduction process to convert these levels to the elevation of the bypass spillway, is provided in Section 3.1, 3.4.1, and 4.1.2 of O&M Report #1. This data reduction process, updated for the current reporting period, is provided in Appendix A.

The influent water level elevation and occurrences of bypass flow for Seeps A-D for the reporting period are shown in Figures 3a-d. Bypass flow was more frequently observed at Seeps A, B, and C than at Seep D. Bypass flow at Seeps A, B, and C was caused by several instances of rainfall, including December 8 (1.1 inches) and December 21 (0.48 inches). The total rainfall received in November was approximately 0.53 inches, which is less than one-fifth of the historical November average (3.42 inches). The total rainfall in December was approximately 2.25 inches, approximately two-thirds the historical December average (3.81 inches). Seep D FTC captured all wet weather flow.

#### 4.2 Performance Monitoring Analytical Results

Analytical results for the composite performance monitoring samples are provided in Table 3 and summarized below. Laboratory analytical results are compiled in Appendix B.

<b>Analytical Results – Performance Monitoring</b>	<b>Seep A</b>	<b>Seep B</b>	<b>Seep C</b>	<b>Seep D</b>
Average Influent Total Table 3+ PFAS, 17 compounds (ng/L)	165,000	210,000	93,000	90,000
Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	180	630	77	110
Average Removal Efficiency (%)	99.9%	98.6%	99.8%	99.8%

### 4.3 System Effectiveness

System effectiveness, defined by the percentage removal of the combined concentrations of the three indicator parameters (HFPO-DA, PFMOAA and PMPA), is determined on a monthly average basis for the system using volume weighted concentrations of the influent and effluent samples. Volume weighted concentrations were developed in the event that either the influent and effluent autosamplers have different compositing durations or that the two composite sampling periods in the month have different durations (e.g., 14 days and 10 days). Both circumstances could arise due to a potential equipment malfunction or severe weather event. Weighting by volume provides a representative assessment of mass present in both the influent and effluent over time; samples corresponding to greater flow volumes will have a proportionately higher weight. System effectiveness is calculated using the equation presented in Section 4.3 of the O&M Report #1.

Based on the system flowrate data (Section 4.1.1) and the performance monitoring composite sample data of the three indicator compounds (Section 4.2), the overall system effectiveness for Seeps A-D was calculated to be 99.8% <sup>[3]</sup>. The system effectiveness for the individual Seeps is presented below:

<b>System Effectiveness</b>	<b>Seep A</b>		<b>Seep B</b>		<b>Seep C</b>		<b>Seep D</b>		<b>Overall Average</b>
	<b>Nov</b>	<b>Dec</b>	<b>Nov</b>	<b>Dec</b>	<b>Nov</b>	<b>Dec</b>	<b>Nov</b>	<b>Dec</b>	
%	99.9	99.8	99.9	99.2	99.9	99.8	99.9	99.8	99.8

### 4.4 Wet Weather Sampling Results

Wet weather monitoring samples (December 9) were collected at Seeps A-D during the reporting period (Table 2), and their analytical results are shown in Table 4 and summarized below. Wet weather samples were not collected in November, as there was no qualifying rain event to trigger collection. Laboratory analytical results are compiled in Appendix B. As noted in Paragraph 2(a)(iii) in the CO Addendum, these results are not to be used to determine compliance under Paragraph 2(a)(vi).

Analytical Result – Wet Weather Monitoring	Seep A	Seep B	Seep C	Seep D
Influent Total Table 3+ PFAS, 17 compounds (ng/L)	110,000	170,000	82,000	78,000
Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	230	40	280	16
Removal Efficiency (%)	99.8	> 99.9	99.7	> 99.9

#### 4.5 River Elevation and Precipitation

The Cape Fear River was monitored using the existing USGS weather monitoring station at the W.O. Huske Dam (gage 02105500), as described in Section 3.2.

Three key river elevations, in reference to the FTC at Seeps A-D were monitored for their effect on system performance:

- (i) When the river rises above the top of the GAC, head differentials throughout the FTC are reduced and flow through the system is hindered.
- (ii) When the river rises above the invert of the Bypass Spillway, the influent and effluent water elevation are equal and flow through the system ceases.
- (iii) When the river rises above the top of the FTC walls, maintenance is required to repair any damages from flooding.

A statistical summary of the Cape Fear River elevation relative to these key elevations is provided in Table 5. The Cape Fear River did not rise above the elevation level of any key features (GAC, wall, spillway, discharge pipe) of any FTCs during the reporting period. The changes in elevation of the Cape Fear River during the reporting period (November 1 through December 31, 2021) are shown in Figure 1. For clarity of presentation, Figure 1 shows the key FTC elevations at Seep C only.

#### 4.6 Water Quality

The water quality measurements collected during reporting period are provided in Table 6 and described below:

- **DO:** No significant differences were observed in the fluctuations of DO between influent and effluent locations in Seeps B. In Seep A, the DO level decreased on a median basis by 1.1 mg/L, while in Seeps C and D the median DO increased by 2.1 mg/L and 2.3 mg/L, respectively. The minimum average effluent DO across all four FTCs was 5.4 mg/L, indicating that aerobic conditions are maintained during the process. The FTC systems do



not involve biological activity to treat influent water, therefore, DO is not expected to decrease or increase significantly over the system's residence time.

- **Temperature:** At all four seeps, the median temperature of the effluent was within 2°C of the median temperature of the influent during this reporting period. Due to the relatively short residence time in the FTC, temperature is not expected to change significantly throughout the FTC.
- **Specific Conductance:** Similar to the above parameters, there appeared to be only a minor effect on conductivity. The FTC is expected to have little effect on the anion/cation content of the seep baseflow. For all four Seeps, the difference in median specific conductance across influent and effluent locations ranged between -13.7 and -37.2  $\mu\text{S}/\text{cm}$ .
- **pH:** From the IC to the ESB, the median pH of treated water increased for all four Seeps. The increase in median pH from the IC to the ESB across the Seeps was between 0.3 and 1.1 Standard Units. This effect was anticipated and is likely a result of the inflow's contact with the concrete walls of the FTC and the GAC in the filter beds.
- **Turbidity and TSS:** The median turbidity of the influent water at Seeps A, B, C, and D ranged from 2.6 to 32.2 NTU. The FTCs significantly decreased the turbidity of the influent water. The median turbidity of the effluent water at Seeps A-D ranged from 0.0 to 27.4 NTU. The TSS was observed to be 0.0 mg/L for all influent and effluent monitoring locations.

## 5. SUMMARY

The following summarizes the FTC's performance after the completion of the latest reporting period (November 1 through December 31, 2021):

- Conclusions reached from the previous months of operation, as documented in previous O&M Reports, remain unchanged. Flow data from Seeps A, B, C, and D indicate the systems are capable of treating more than the design basis flow rate under favorable hydraulic conditions. Wet weather flow is frequently captured, in some cases fully captured, and treated equally to dry weather flows when captured.
- Performance monitoring results indicate the average PFAS removal efficiency of captured baseflow at Seeps A-D is approximately 99.6%. To date, the A-D FTCs have prevented approximately 230.9 lbs of PFAS from being discharged to the Cape Fear River.

The next reporting period (January 1 through February 28, 2022) will be detailed in O&M Report #7, to be submitted no later than March 31, 2022.

## 6. REFERENCES

- AECOM, 2018. Poly and Perfluoroalkyl Substance Quality Assurance Project Plan. August 2018.
- Geosyntec, 2020. Interim Seep Remediation System Plan. Chemours Fayetteville Works. 31 August 2020.
- Geosyntec, 2021a. Interim Seep Remediation Operation and Maintenance Report #1. Chemours Fayetteville Works. 31 March 2021.
- Geosyntec, 2021b. Interim Seep Remediation Operation and Maintenance Report #2. Chemours Fayetteville Works. 31 May 2021.
- Geosyntec, 2021c. Interim Seep Remediation Operation and Maintenance Report #3. Chemours Fayetteville Works. 30 July 2021.
- Geosyntec, 2021d. Interim Seep Remediation Operation and Maintenance Report #4. Chemours Fayetteville Works. 30 September 2021.
- Geosyntec, 2021e. Interim Seep Remediation Operation and Maintenance Report #5. Chemours Fayetteville Works. 30 November 2021.

# TABLES

**Table 1a**  
**Summary of Operations and Maintenance Activities - Seep A**  
**Reporting Period 6 (November - December 2021)**

Chemours Fayetteville Works  
 Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
11/01/2021	188	Yes				Lead	Lag	Lead	Lag	X	Skimmed, raked, and exchanged fabric at FB1. FB1 dewatered to conduct maintenance.	High water levels in inlet basin and FB1.
11/05/2021	192	No				Lead	Lag	Lead	Lag		Hard rake and light skim at FB1. Remaining sand and fabric removed from inlet basin. 10 gallons of wet sand removed.	Rain gauge reading of 1/16 inches. 7 inches of freeboard.
11/08/2021	195	No	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of less than 1/10 inches. 14.5 inches of freeboard.
11/09/2021	196	No				Lead	Lag	Lead	Lag		Wet vacuumed FB2.	N/A
11/11/2021	198	--				Lead	Lag	Lead	Lag		Replaced datalogger zip ties with wire.	N/A
11/12/2021	199	No		X		Lead	Lag	Lag	Lead		N/A	N/A
11/15/2021	202	No	X			Lag	Lead	Lag	Lead	X	FB2 serviced. Operated in parallel for 2.5 hours.	6 inches of freeboard after maintenance.
11/16/2021	203	No				Lag	Lead	Lag	Lead		Wet vacuumed FB2. FB1 sole processor during maintenance.	3 inches of freeboard.
11/18/2021	205	No				Lag	Lead	Lag	Lead		Wet vacuumed FB1.	9 inches of freeboard.
11/19/2021	206	No				Lag	Lead	Lag	Lead		Wet vacuumed FB2.	N/A
11/22/2021	209	Yes	X			Lag	Lead	Lag	Lead	X	N/A	No rain in rain gauge.
11/23/2021	210	No				Lag	Lead	Lag	Lead		Pulled fabric. Skimmed and fluffed FB2. FB1 set as sole processor for 5.5 hours. Summit on site to repair outfall with grout and riprap.	4 inches of freeboard.
11/24/2021	211	No				Lag	Lead	Lag	Lead		N/A	N/A
11/27/2021	214	No				Lag	Lead	Lag	Lead		N/A	10.75 inches of freeboard.
11/29/2021	216	No	X	X		Lag	Lead	Lag	Lead	X	N/A	N/A
11/30/2021	217	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced matting in FB1 and FB2.	5 inches of freeboard. Observed evidence of bypass.
12/02/2021	219	No				Lag	Lead	Lead	Changeout		Closed FB2 for GAC changeout. FB1 sole processor during the changeout.	N/A
12/03/2021	220	No				Lead	Lag	Lead	Lag		Biocide administered in impoundment basin.	14 inches of freeboard.
12/06/2021	223	No	X			Lead	Lag	Lead	Lag	X	Skimmed and fluffed FB1.	Bacteria debris surfacing in the impoundment basin.
12/08/2021	225	Yes				Lead	Lag	Lead	Lag		N/A	Sediment plume observed in the southern channel above Seep.
12/09/2021	226	No			X	Lead	Lag	Lead	Lag		Removed silt accumulation in both beds. Both intakes were closed during maintenance.	N/A
12/13/2021	230	Yes	X			Lead	Lag	Lead	Lag	X	Skimmed, fluffed, and added new fabric in FB1.	Rain gauge reading of 0.3 inches.
12/15/2021	232	No		X		Lead	Lag	Lead	Lag		Flushed influent basin. Skimmed and fluffed FB2. FB1 was sole processor during maintenance of FB2.	6 inches of freeboard. Biocide observed in influent basin.
12/20/2021	237	No	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 5/16 inches from 12/19/2021.
12/21/2021	238	Yes				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	N/A
12/22/2021	239	Yes				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 0.6 inches.
12/23/2021	240	Yes				Lead	Lag	Lead	Lag		Wet vacuumed FB2.	High water observed in FB1.
12/27/2021	244	Yes	X			Lead	Lag	Lead	Lag	X	Skimmed and fluffed FB1.	N/A
12/28/2021	245	No				Lead	Lag	Lead	Lag		N/A	N/A
12/29/2021	246	No				Parallel	Parallel	Lead	Lag		N/A	12 inches of freeboard. Scum observed outside of turbidity curtain.
12/30/2021	247	No		X		Lead	Lag	Lead	Lag		Skimmed and fluffed FB1 and FB2.	5 inches of freeboard on arrival.

**Notes**

FB1 - Filter Bed 1  
 FB2 - Filter Bed 2  
 GAC - granulated activated carbon  
 N/A - Not Applicable

**Table 1b**  
**Summary of Operations and Maintenance Activities - Seep B**  
**Reporting Period 6 (November - December 2021)**  
Chemours Fayetteville Works  
Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
11/01/2021	147	No				Lag	Lead	Lag	Lead	X	Wet vacuumed FB1 and FB2.	3 inches of freeboard. Rain gauge reading of 0.1 inches.
11/03/2021	149	No				Lag	Lead	Lag	Lead		Fully serviced FB1 and FB2. Placed 15 pounds of biocide at inlet basin rock pad. Placed 50 pounds of biocide in inlet basin and FB1.	3 inches of freeboard.
11/08/2021	154	No	X			Lag	Lead	Lag	Lead	X	N/A	Rain gauge reading of 1/16 inches. 9.5 inches of freeboard.
11/09/2021	155	No				Lag	Lead	Lag	Lead		Summit cleared down to 6 inches below top of spillway to place grout. Placed in parallel during event.	N/A
11/10/2021	156	No				Lag	Lead	Lag	Lead		Wet vacuumed FB2.	10.5 inches of freeboard.
11/15/2021	161	No				Lag	Lead	Lag	Lead	X	N/A	Nominal amount of water observed trickling out of northeast toe of rip rap slope. Minimal flow observed. '6 inches of freeboard.
11/17/2021	163	No				Lag	Lead	Lag	Lead		Vacuumed FB2.	Nominal flow observed NE toe of FTC.
11/19/2021	165	No				Lag	Lead	Lag	Lead		Hard rake and fluff in FB2. FB2 system shut off for 2.25 hours for maintenance.	N/A
11/22/2021	168	No	X			Lag	Lead	Lag	Lead	X	N/A	Minimal amount of water seeping out of toe of northeast slope of the dam.
11/23/2021	169	No				Lag	Lead	Lag	Lead		Fluffed, raked, and replaced fabric in FB2. Raked FB1. Flushed influent stilling basin.	Rain gauge reading of 0.35 inches.
11/27/2021	173	No				Lag	Lead	Lag	Lead		N/A	N/A
11/29/2021	175	No	X	X		Lag	Lead	Lag	Lead	X	N/A	Flow observed at FTC on north toe of slope.
12/02/2021	178	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. FB1 sole processor during maintenance.	4 inches of freeboard.
12/03/2021	179	No				Lag	Lead	Lag	Lead		N/A	9 inches of freeboard.
12/06/2021	182	No	X			Lag	Lead	Lag	Lead	X	N/A	9 inches of freeboard.
12/08/2021	184	No				Lag	Lead	Lag	Lead		N/A	Effluent ISCO tube was curled and out of water. Missed samples 2, 3, 4, and 5. Rain gauge reading of 1.25 inches.
12/09/2021	185	No			X	Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 1.1 inches. No freeboard.
12/10/2021	186	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric in FB2. Flushed influent stilling basin. FB2 was isolated and FB1 was not used as lead bed during maintenance. W1 weir was dropped.	Observed excessive amounts of bacteria in inlet basin during maintenance.
12/13/2021	189	No	X			Lag	Lead	Lag	Lead	X	N/A	Rain gauge reading of 0.4 inches. 10 inches of freeboard.
12/14/2021	190	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric in FB2.	8 inches of freeboard before maintenance. 9 inches of freeboard after maintenance.
12/15/2021	191	No		X		Lag	Lead	Lag	Lead		N/A	14 inches of freeboard.
12/20/2021	196	No	X			Lag	Lead	Lag	Lead	X	N/A	Rain gauge reading at 0.3 inches from 12/19/2021.
12/22/2021	198	No				Lag	Lead	Lag	Lead		Maintenance on FB1 and FB2.	1/8 inch of freeboard before maintenance. 6 inches of freeboard after maintenance.
12/27/2021	203	No	X			Lag	Lead	Lag	Lead	X	N/A	8 inches of freeboard.
12/29/2021	205	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric in FB1 and FB2.	6 inches of freeboard.
12/30/2021	206	No		X		Lag	Lead	Lag	Lead		N/A	14 inches of freeboard.

**Notes**  
FB1 - Filter Bed 1  
FB2 - Filter Bed 2  
FTC - flow through cell  
ISCO - Teledyne ISCO Autosampler  
N/A - Not Applicable

**Table 1c**  
**Summary of Operations and Maintenance Activities - Seep C**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
11/01/2021	321	No				Lead	Lag	Lead	Lag	X	Wet vacuumed FB1 and FB2.	Bacteria in FB2. Rain gauge reading of 0.1 inches. 3 inches of freeboard. Turbidity and sediment in retention pond.
11/04/2021	324	No				Lead	Lag	Lead	Lag		Flushed inlet basin. Skimmed and hard raked FB1.	No sand added to inlet forebay.
11/08/2021	328	No	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 1/16 inches. 8.5 inches of freeboard.
11/09/2021	329	No				Lead	Lag	Lead	Lag		Wet vacuumed FB1.	N/A
11/11/2021	331	--				Lead	Lag	Lead	Lag		N/A	N/A
11/12/2021	332	No		X		Lead	Lag	Lead	Lag		N/A	N/A
11/15/2021	335	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
11/17/2021	337	No				Lead	Lag	Lead	Lag		Proactive maintenance performed on FB1. Hard rake and fluff.	FB1 closed for 4 hours. 6 inches of freeboard.
11/18/2021	338	No				Lead	Lag	Lead	Lag		Wet vacuumed FB2.	9.5 inches of freeboard. Bacteria visible in FB2.
11/22/2021	342	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
11/26/2021	346	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	Rain gauge reading of 0.4 inches.
11/29/2021	349	No	X	X		Lead	Lag	Lead	Lag	X	N/A	10 inches of freeboard.
12/03/2021	353	No				Lead	Lag	Lead	Lag		FB2 solo processor during maintenance.	8 inches of freeboard
12/06/2021	356	No	X			Lead	Lag	Lead	Lag	X	N/A	13 inches of freeboard.
12/08/2021	358	Yes				Lead	Lag	Lead	Lag		N/A	Only one bottle is filling at effluent ISCO.
12/09/2021	359	No			X	Lead	Lag	Lead	Lag		Skimmed, fluffed, and replaced fabric in FB1.	9 inches of freeboard. Rain gauge reading of 1.1 inches.
12/13/2021	363	Yes	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 0.25 inches.
12/15/2021	365	No		X		Changeout	Lead	Lag	Lead		N/A	14 inches of freeboard.
12/17/2021	367	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and replaced fabric in FB2. System ran in parallel during maintenance.	Very little water flowing into FB1.
12/20/2021	370	Yes	X			Lag	Lead	Lag	Lead	X	Flushed inlet basin. Fluffed FB2.	Not bypassing post maintenance. Rain gauge reading at 0.3 inches from 12/19/2021.
12/22/2021	372	Yes				Lag	Lead	Lag	Lead		Replaced fabric and skimmed FB2.	Very turbid water. 0.5 inches of water observed on spillway. Rain gauge reading of 9/16 inches.
12/27/2021	377	Yes	X			Lag	Lead	Lag	Lead	X	N/A	Transfer basin appeared turbid. Observed sediment laying on fabric.
12/28/2021	378	Yes				Lag	Lead	Parallel	Parallel		Skimmed and fluffed FB2.	N/A
12/30/2021	380	No		X		Lag	Lead	Lag	Lead		N/A	7 inches of freeboard.

**Notes**  
 FB1 - Filter Bed 1  
 FB2 - Filter Bed 2  
 ISCO - Teledyne ISCO Autosampler  
 N/A - Not Applicable

**Table 1d**  
**Summary of Operations and Maintenance Activities - Seep D**  
**Reporting Period 6 (November - December 2021)**

Chemours Fayetteville Works  
 Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
						FB1	FB2	FB1	FB2			
11/01/2021	131	No				Lag	Lead	Lag	Lead	X	N/A	Rain gauge reading of 0.1 inches. 12 inches of freeboard.
11/04/2021	134	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and exchanged fabric at FB2.	6 inches of freeboard.
11/08/2021	138	No				Lag	Lead	Lag	Lead	X	N/A	Iron staining visible on the downgradient riprap slope above the drainage pipe. 12 inches of freeboard.
11/09/2021	139	No				Lag	Lead	Lag	Lead		Wet vacuumed FB2.	N/A
11/12/2021	142	No		X		Lag	Lead	Lag	Lead		N/A	N/A
11/15/2021	145	No	X			Lag	Lead	Lag	Lead	X	N/A	6 inches of freeboard.
11/17/2021	147	No				Lag	Lead	Lag	Lead		Wet vacuumed FB2. System placed in parallel for maintenance.	N/A
11/18/2021	148	No				Lag	Lead	Lead	Changeout		Carbon changeout at FB2. FB1 switched to sole processor to drain FB2 prior to carbon vacuum excavation.	N/A
11/19/2021	149	No				Lead	Changeout	Lead	Lag		Fresh GAC installed in FB2.	FB1 was lead and in solo from 11/18/2021 7:30 to 11/19/2021 12:30.
11/22/2021	152	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
11/23/2021	153	No				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 7.5 mm.
11/24/2021	154	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1 and replaced part of fabric.	1 inch of freeboard.
11/27/2021	157	No				Lead	Lag	Lead	Lag		N/A	12 inches of freeboard.
11/29/2021	159	No		X		Lead	Lag	Lead	Lag	X	N/A	N/A
12/03/2021	163	No				Lead	Lag	Lead	Lag		N/A	12 inches of freeboard.
12/06/2021	166	No	X			Lead	Lag	Lead	Lag	X	N/A	8 inches of freeboard.
12/07/2021	167	No				Lead	Lag	Lead	Lag		Flushed influent and skimmed and fluffed FB1.	5 inches of freeboard.
12/08/2021	168	No				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 42 mm.
12/09/2021	169	No			X	Lead	Lag	Lead	Lag		N/A	13.5 inches of freeboard. Rain gauge reading of 1.1 inches.
12/10/2021	170	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1. Closed inlet and drained lead bed from mid-basin.	7 inches of freeboard.
12/13/2021	173	No	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 7/16 inches.
12/15/2021	175	No		X		Lead	Lag	Lead	Lag		N/A	4 inches of freeboard. Biocide residue visible in influent basin.
12/16/2021	176	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1 and FB2.	N/A
12/20/2021	180	No	X			Lead	Lag	Lead	Lag	X	N/A	Rainwater noticed in spillway, but no clear indications of system bypassing. Rain gauge reading at 0.3 inches from 12/19/2021.
12/22/2021	182	No				Lead	Lag	Parallel	Parallel		N/A	5 inches of freeboard. Rain gauge reading of 3/4 inches.
12/23/2021	183	No				Parallel	Parallel	Lead	Lag		Cleaned FB1.	Over 1 foot of freeboard.
12/27/2021	187	No	X			Lead	Lag	Lead	Lag	X	N/A	Over 1 foot of freeboard.
12/29/2021	189	No				Lead	Lag	Lead	Lag		Added biocide to inlet basin.	12 inches of freeboard.
12/30/2021	190	No		X		Lead	Lag	Lead	Lag		Skimmed and fluffed FB1 and FB2.	9 inches of freeboard.

**Notes**  
 FB1 - Filter Bed 1  
 FB2 - Filter Bed 2  
 GAC - granulated activated carbon  
 N/A - Not Applicable



**Table 2a**  
**Sampling Summary - Seep A**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-A-INFLUENT-324-111221 SEEP-A-EFFLUENT-336-111221	October 29 - November 12, 2021	November 12, 2021
SEEP-A-INFLUENT-300-112821 SEEP-A-EFFLUENT-336-112821	November 15 - November 28, 2021	November 28, 2021
SEEP-A-INFLUENT-336-121521 SEEP-A-EFFLUENT-336-121521	December 1 - December 15, 2021	December 15, 2021
SEEP-A-INFLUENT-336-123021 SEEP-A-EFFLUENT-336-123021	December 16 - December 30, 2021	December 30, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-A-INFLUENT-RAIN-24-120921 SEEP-A-EFFLUENT-RAIN-19-120921	December 9, 2021	7:19	1.08

*Notes*

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
- 3 No wet weather samples were collected in November, as there was no qualifying rain event to trigger sample collection.

**Table 2b**  
**Sampling Summary - Seep B**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-B-INFLUENT-336-111221 SEEP-B-EFFLUENT-336-111221	October 29 - November 12, 2021	November 12, 2021
SEEP-B-INFLUENT-336-112821 SEEP-B-EFFLUENT-312-112821	November 15 - November 28, 2021	November 28, 2021
SEEP-B-INFLUENT-324-121521 SEEP-B-EFFLUENT-336-121521	December 1 - December 15, 2021	December 15, 2021
SEEP-B-INFLUENT-210-122921 SEEP-B-EFFLUENT-336-123021	December 16 - December 29 and 30, 2021	December 29 and 30, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-B-INFLUENT-RAIN-24-120921 SEEP-B-EFFLUENT-RAIN-19-120921	December 9, 2021	7:21	1.08

*Notes*

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
- 3 No wet weather samples were collected in November, as there was no qualifying rain event to trigger sample collection.

**Table 2c**  
**Sampling Summary - Seep C**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-C-EFFLUENT-24-110521	November 4 - November 5, 2021	November 5, 2021
SEEP-C-INFLUENT-300-111221 SEEP-C-EFFLUENT-24-111221	October 29 - November 12, 2021 November 11 - November 12, 2021	November 12, 2021
SEEP-C-INFLUENT-300-112721 SEEP-C-EFFLUENT-174-112821	November 15 - November 27 and 28, 2021	November 27 and 28, 2021
SEEP-C-INFLUENT-336-121521 SEEP-C-EFFLUENT-336-121521	December 1 - December 15, 2021	December 15, 2021
SEEP-C-INFLUENT-336-123021 SEEP-C-EFFLUENT-336-123021	December 16 - December 30, 2021	December 30, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-C-INFLUENT-RAIN-24-120921 SEEP-C-EFFLUENT-RAIN-24-120921	December 9, 2021	7:22	1.08

*Notes*

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 Two 24-hour effluent composite samples were collected for the first half of November instead of a single 14-day composite because of incorrect placement of the autosampler tubing.
- 3 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
- 4 No wet weather samples were collected in November, as there was no qualifying rain event to trigger sample collection.

**Table 2d**  
**Sampling Summary - Seep D**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-D-INFLUENT-336-111221 SEEP-D-EFFLUENT-336-111221	October 29 - November 12, 2021	November 12, 2021
SEEP-D-INFLUENT-336-112821 SEEP-D-EFFLUENT-336-112821	November 15 - November 28, 2021	November 28, 2021
SEEP-D-INFLUENT-330-121421 SEEP-D-EFFLUENT-336-121421	December 1 - December 14, 2021	December 14, 2021
SEEP-D-INFLUENT-336-123021 SEEP-D-EFFLUENT-336-123021	December 16 - December 30, 2021	December 30, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-D-INFLUENT-RAIN-24-120921 SEEP-D-EFFLUENT-RAIN-24-120921	December 9, 2021	7:29	1.08

*Notes*

- 1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 2 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
- 3 No wet weather samples were collected in November, as there was no qualifying rain event to trigger sample collection.

**Table 3a**  
**Summary of Performance Monitoring Analytical Results - Seep A**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-A-INFLUENT- 324-111221	SEEP-A-EFFLUENT- 336-111221	Percent Removal	SEEP-A-INFLUENT- 300-112821	SEEP-A-EFFLUENT- 336-112821	Percent Removal	SEEP-A-INFLUENT- 336-121521	SEEP-A-EFFLUENT- 336-121521	Percent Removal	SEEP-A-INFLUENT- 336-123021	SEEP-A-EFFLUENT- 336-123021	Percent Removal
	Sample Date: 12-Nov-21	Sample Date: 12-Nov-21		Sample Date: 28-Nov-21	Sample Date: 28-Nov-21		Sample Date: 15-Dec-21	Sample Date: 15-Dec-21		Sample Date: 30-Dec-21	Sample Date: 30-Dec-21	
<i>Table 3 + SOP (ng/L)</i>												
Hfpo Dimer Acid	<b>27,000</b>	<b>27</b>	99.9%	<b>24,000</b>	<b>11</b>	> 99.9%	<b>15,000 J</b>	<b>16 J</b>	99.9%	<b>25,000</b>	<b>7.6</b>	> 99.9%
PFMOAA	<b>73,000</b>	<b>68</b>	99.9%	<b>74,000</b>	<b>69</b>	99.9%	<b>41,000 J</b>	<b>190 J</b>	99.5%	<b>65,000</b>	<b>52</b>	99.9%
PFO2HxA	<b>38,000</b>	<b>33</b>	99.9%	<b>37,000</b>	<b>18</b>	> 99.9%	<b>25,000 J</b>	<b>43 J</b>	99.8%	<b>35,000</b>	<b>12</b>	> 99.9%
PFO3OA	<b>14,000</b>	<b>11</b>	99.9%	<b>14,000</b>	<b>3</b>	> 99.9%	<b>10,000 J</b>	<b>8.0 J</b>	99.9%	<b>11,000</b>	<2.0	100.0%
PFO4DA	<b>7,100</b>	<b>6</b>	99.9%	<b>7,200</b>	<2.0	100.0%	<b>5,900 J</b>	<b>2.9 J</b>	100.0%	<b>6,300</b>	<2.0	100.0%
PFO5DA	<b>4,300</b>	<b>3</b>	99.9%	<b>3,800</b>	<2.0	100.0%	<b>2,900 J</b>	<2.0 UJ	100.0%	<b>3,000</b>	<2.0	100.0%
PMPA	<b>15,000</b>	<b>28</b>	99.8%	<b>15,000</b>	<b>33</b>	99.8%	<b>10,000 J</b>	<b>55 J</b>	99.5%	<b>13,000</b>	<b>13</b>	99.9%
PEPA	<b>6,700</b>	<2.0	100.0%	<b>6,800</b>	<2.0	100.0%	<20,000 UJ	<20 UJ	100.0%	<b>4,900</b>	<2.0	100.0%
PS Acid	<b>2,500</b>	<2.0	100.0%	<b>2,200</b>	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<b>1,400</b>	<2.0	100.0%
Hydro-PS Acid	<b>1,400</b>	<2.0	100.0%	<b>1,300</b>	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<b>1,300</b>	<2.0	100.0%
R-PSDA	<b>2,300 J</b>	<2.0	100.0%	<b>2,400 J</b>	<2.0	100.0%	<2,000 UJ	<b>2.4 J</b>	99.9%	<b>2,600 J</b>	<2.0	100.0%
Hydrolyzed PSDA	<b>25,000 J</b>	<b>20 J</b>	99.9%	<b>27,000 J</b>	<b>6.6 J</b>	> 99.9%	<b>38,000 J</b>	<b>57 J</b>	99.9%	<b>28,000 J</b>	<b>2.5 J</b>	> 99.9%
R-PSDCA	<b>46</b>	<2.0	100.0%	<b>43</b>	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<b>45</b>	<2.0	100.0%
NVHOS, Acid Form	<b>1,100</b>	<2.0	100.0%	<b>1,100</b>	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<b>1,100</b>	<2.0	100.0%
EVE Acid	<b>310</b>	<2.0	100.0%	<b>270</b>	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<b>180</b>	<2.0	100.0%
Hydro-EVE Acid	<b>1,500</b>	<2.0	100.0%	<b>1,600</b>	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<b>1,600</b>	<2.0	100.0%
R-EVE	<b>1,100 J</b>	<2.0	100.0%	<b>1,200 J</b>	<2.0	100.0%	<b>2,200 J</b>	<b>3.5 J</b>	99.8%	<b>1,100 J</b>	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<2,000 UJ	<2.0 UJ	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>190,000</b>	<b>180</b>	<b>99.9%</b>	<b>190,000</b>	<b>130</b>	<b>99.9%</b>	<b>110,000</b>	<b>310</b>	<b>99.7%</b>	<b>170,000</b>	<b>85</b>	<b>&gt; 99.9%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>220,000</b>	<b>200</b>	<b>99.9%</b>	<b>220,000</b>	<b>140</b>	<b>99.9%</b>	<b>150,000</b>	<b>380</b>	<b>99.7%</b>	<b>200,000</b>	<b>87</b>	<b>&gt; 99.9%</b>

**Notes**

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

2 - Total Table 3+ (17 Compounds) does not include 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.

UJ - Analyte not detected. Reporting limit 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.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 3b**  
**Summary of Performance Monitoring Analytical Results - Seep B**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-B-INFLUENT- 336-111221	SEEP-B-EFFLUENT- 336-111221	Percent Removal	SEEP-B-INFLUENT- 336-112821	SEEP-B-EFFLUENT- 312-112821	Percent Removal	SEEP-B-INFLUENT- 324-121521	SEEP-B-EFFLUENT- 336-121521	Percent Removal	SEEP-B-INFLUENT- 210-122921	SEEP-B-EFFLUENT- 336-123021	Percent Removal
	Sample Date: 12-Nov-21	Sample Date: 12-Nov-21		Sample Date: 28-Nov-21	Sample Date: 28-Nov-21		Sample Date: 15-Dec-21	Sample Date: 15-Dec-21		Sample Date: 29-Dec-21	Sample Date: 30-Dec-21	
<i>Table 3 + SOP (ng/L)</i>												
Hfpo Dimer Acid	26,000	5.1	> 99.9%	24,000	3.2	> 99.9%	20,000 J	310 J	98.5%	27,000	4.9	> 99.9%
PFMOAA	110,000	20	> 99.9%	120,000	17	> 99.9%	81,000 J	850 J	99.0%	95,000	21 J	> 99.9%
PFO2HxA	36,000	5	> 99.9%	38,000	2.9	> 99.9%	32,000 J	390 J	98.8%	34,000	4.8 J	> 99.9%
PFO3OA	9,600	<2.0	100.0%	9,800	<2.0	100.0%	10,000 J	120 J	98.8%	7,500	<2.0	100.0%
PFO4DA	1,300	<2.0	100.0%	1,500	<2.0	100.0%	<2,000 UJ	20 J	99.0%	1,500	<2.0	100.0%
PFO5DA	180	<2.0	100.0%	150	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	120	<2.0	100.0%
PMPA	26,000	19	99.9%	26,000	16	99.9%	26,000 J	440 J	98.3%	24,000	13	99.9%
PEPA	14,000	<2.0	100.0%	13,000	<2.0	100.0%	<20,000 UJ	260 J	98.7%	11,000	<2.0	100.0%
PS Acid	520	<2.0	100.0%	320	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	320	<2.0	100.0%
Hydro-PS Acid	600	<2.0	100.0%	570	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	690	<2.0	100.0%
R-PSDA	3,400 J	<2.0	100.0%	3,200 J	<2.0	100.0%	3,400 J	35 J	99.0%	3,700 J	<2.0	100.0%
Hydrolyzed PSDA	25,000 J	<2.0	100.0%	28,000 J	<2.0	100.0%	69,000 J	820 J	98.8%	28,000 J	<2.0	100.0%
R-PSDCA	39	<2.0	100.0%	37	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	40	<2.0	100.0%
NVHOS, Acid Form	2,000	<2.0	100.0%	2,000	<2.0	100.0%	<2,000 UJ	31 J	84.5%	1,900	<2.0	100.0%
EVE Acid	470	<2.0	100.0%	250	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	280	<2.0	100.0%
Hydro-EVE Acid	1,400	<2.0	100.0%	1,300	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	1,500	<2.0	100.0%
R-EVE	2,000 J	<2.0	100.0%	2,000 J	<2.0	100.0%	3,900 J	62 J	98.4%	2,000 J	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<2,000 UJ	<20 UJ	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>230,000</b>	<b>49</b>	<b>&gt; 99.9%</b>	<b>240,000</b>	<b>39</b>	<b>&gt; 99.9%</b>	<b>170,000</b>	<b>2,400</b>	<b>98.6%</b>	<b>200,000</b>	<b>44</b>	<b>&gt; 99.9%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>260,000</b>	<b>49</b>	<b>&gt; 99.9%</b>	<b>270,000</b>	<b>39</b>	<b>&gt; 99.9%</b>	<b>250,000</b>	<b>3,300</b>	<b>98.7%</b>	<b>240,000</b>	<b>44</b>	<b>&gt; 99.9%</b>

**Notes**

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

2 - Total Table 3+ (17 Compounds) does not include 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.

UJ - Analyte not detected. Reporting limit 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.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 3c**  
**Summary of Performance Monitoring Analytical Results - Seep C**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-C- EFFLUENT-24- 110521  Sample Date: 5-Nov-21	SEEP-C-INFLUENT- 300-111221  Sample Date: 12-Nov-21	SEEP-C- EFFLUENT-24- 111221  Sample Date: 12-Nov-21	Percent Removal	SEEP-C-INFLUENT- 300-112721  Sample Date: 27-Nov-21	SEEP-C- EFFLUENT-174- 112821  Sample Date: 28-Nov-21	Percent Removal	SEEP-C-INFLUENT- 336-121521  Sample Date: 15-Dec-21	SEEP-C- EFFLUENT-336- 121521  Sample Date: 15-Dec-21	Percent Removal	SEEP-C-INFLUENT- 336-123021  Sample Date: 30-Dec-21	SEEP-C- EFFLUENT-336- 123021  Sample Date: 30-Dec-21	Percent Removal
<i>Table 3 + SOP (ng/L)</i>													
Hfpo Dimer Acid	2.4	19,000	2.2	> 99.9%	20,000	<2.0	100.0%	10,000 J	<2.0 UJ	100.0%	17,000	11	99.9%
PFMOAA	38	44,000	23	99.9%	58,000	16	> 99.9%	26,000 J	22 J	99.9%	45,000	140	99.7%
PFO2HxA	3.6	19,000	3.6	> 99.9%	23,000	<2.0	100.0%	13,000 J	3.0 J	100.0%	19,000	18	99.9%
PFO3OA	<2.0	6,900	<2.0	100.0%	7,400	<2.0	100.0%	4,400 J	<2.0 UJ	100.0%	6,100	2.9	> 99.9%
PFO4DA	<2.0	2,600	<2.0	100.0%	2,600	<2.0	100.0%	1,700 J	<2.0 UJ	100.0%	2,100	<2.0	100.0%
PFO5DA	<2.0	100	<2.0	100.0%	90	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	110	<2.0	100.0%
PMPA	<10	6,800	<10	100.0%	8,100	<10	100.0%	4,500 J	<10 UJ	100.0%	5,800	21	99.6%
PEPA	<20	2,700	<20	100.0%	3,000	<20	100.0%	<2,000 UJ	<20 UJ	100.0%	1,800	<20	100.0%
PS Acid	<2.0	<20	<2.0	100.0%	<20	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	<2.0	280	<2.0	100.0%	370	<2.0	100.0%	260 J	<2.0 UJ	100.0%	330	<2.0	100.0%
R-PSDA	<2.0	660 J	<2.0	100.0%	800 J	<2.0	100.0%	790 J	<2.0 UJ	100.0%	690 J	7.3 J	98.9%
Hydrolyzed PSDA	<2.0	740 J	<2.0	100.0%	1,100 J	<2.0	100.0%	1,100 J	<2.0 UJ	100.0%	710 J	<2.0	100.0%
R-PSDCA	<2.0	<17	<2.0	100.0%	<17	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	<2.0	570	<2.0	100.0%	740	<2.0	100.0%	320 J	<2.0 UJ	100.0%	570	<2.0	100.0%
EVE Acid	<2.0	<17	<2.0	100.0%	<17	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	<2.0	1,000	<2.0	100.0%	1,200	<2.0	100.0%	770 J	<2.0 UJ	100.0%	1,100	<2.0	100.0%
R-EVE	<2.0	670 J	<2.0	100.0%	840 J	<2.0	100.0%	990 J	<2.0 UJ	100.0%	620 J	<2.0	100.0%
PES	<2.0	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<6.7	<2.0	100.0%
PFECA B	<2.0	<27	<2.0	100.0%	<27	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<27	<2.0	100.0%
PFECA-G	<2.0	<48	<2.0	100.0%	<48	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>44</b>	<b>100,000</b>	<b>29</b>	<b>&gt; 99.9%</b>	<b>120,000</b>	<b>16</b>	<b>&gt; 99.9%</b>	<b>61,000</b>	<b>25</b>	<b>&gt; 99.9%</b>	<b>99,000</b>	<b>190</b>	<b>99.8%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>44</b>	<b>110,000</b>	<b>29</b>	<b>&gt; 99.9%</b>	<b>130,000</b>	<b>16</b>	<b>&gt; 99.9%</b>	<b>64,000</b>	<b>25</b>	<b>&gt; 99.9%</b>	<b>100,000</b>	<b>200</b>	<b>99.8%</b>

**Notes**

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

2 - Total Table 3+ (17 Compounds) does not include 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.

UJ - Analyte not detected. Reporting limit 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.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 3d**  
**Summary of Performance Monitoring Analytical Results - Seep D**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-D-INFLUENT- 336-111221	SEEP-D-EFFLUENT- 336-111221	Percent Removal	SEEP-D-INFLUENT- 336-112821	SEEP-D-EFFLUENT- 336-112821	Percent Removal	SEEP-D-INFLUENT- 330-121421	SEEP-D-EFFLUENT- 336-121421	Percent Removal	SEEP-D-INFLUENT- 336-123021	SEEP-D-EFFLUENT- 336-123021	Percent Removal
	Sample Date: 12-Nov-21	Sample Date: 12-Nov-21		Sample Date: 28-Nov-21	Sample Date: 28-Nov-21		Sample Date: 14-Dec-21	Sample Date: 14-Dec-21		Sample Date: 30-Dec-21	Sample Date: 30-Dec-21	
<i>Table 3 + SOP (ng/L)</i>												
Hfpo Dimer Acid	<b>14,000</b>	<b>3.6</b>	> 99.9%	<b>14,000</b>	<b>2.6</b>	> 99.9%	<b>8,100 J</b>	<2.0 UJ	100.0%	<b>14,000</b>	<b>41</b>	99.7%
PFMOAA	<b>49,000</b>	<b>80</b>	99.8%	<b>52,000</b>	<b>47</b>	99.9%	<b>27,000 J</b>	<b>12 J</b>	> 99.9%	<b>45,000</b>	<b>140</b>	99.7%
PFO2HxA	<b>19,000</b>	<b>7.0</b>	> 99.9%	<b>20,000</b>	<b>5.5</b>	> 99.9%	<b>12,000 J</b>	<b>2.0 J</b>	> 99.9%	<b>18,000</b>	<b>58</b>	99.7%
PFO3OA	<b>6,400</b>	<2.0	100.0%	<b>6,600</b>	<2.0	100.0%	<b>4,600 J</b>	<2.0 UJ	100.0%	<b>5,400</b>	<b>18</b>	99.7%
PFO4DA	<b>1,800</b>	<2.0	100.0%	<b>1,900</b>	<2.0	100.0%	<b>1,400 J</b>	<2.0 UJ	100.0%	<b>1,700</b>	<b>5.6</b>	99.7%
PFO5DA	80	<2.0	100.0%	<b>110</b>	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<78	<2.0	100.0%
PMPA	<b>5,600</b>	<10	100.0%	<b>6,000</b>	<10	100.0%	<b>3,700 J</b>	<10 UJ	100.0%	<b>5,100</b>	<b>17</b>	99.7%
PEPA	<b>2,100</b>	<20	100.0%	<b>2,500</b>	<20	100.0%	<2,000 UJ	<20 UJ	100.0%	<b>1,600</b>	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	<b>260</b>	<2.0	100.0%	<b>290</b>	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<b>260</b>	<2.0	100.0%
R-PSDA	<b>750 J</b>	<2.0	100.0%	<b>760 J</b>	<2.0	100.0%	<b>1,100 J</b>	<2.0 UJ	100.0%	<b>720 J</b>	<b>4.1 J</b>	99.4%
Hydrolyzed PSDA	<b>1,500 J</b>	<2.0	100.0%	<b>1,500 J</b>	<2.0	100.0%	<b>2,400 J</b>	<2.0 UJ	100.0%	<b>1,600 J</b>	<b>3.4 J</b>	99.8%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	<b>590</b>	<2.0	100.0%	<b>610</b>	<2.0	100.0%	<b>380 J</b>	<2.0 UJ	100.0%	<b>590</b>	<b>2</b>	99.7%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	<b>1,000</b>	<2.0	100.0%	<b>1,000</b>	<2.0	100.0%	<b>740 J</b>	<2.0 UJ	100.0%	<b>1,000</b>	<b>2.9</b>	99.7%
R-EVE	<b>740 J</b>	<2.0	100.0%	<b>890 J</b>	<2.0	100.0%	<b>970 J</b>	<2.0 UJ	100.0%	<b>680 J</b>	<b>2.0 J</b>	99.7%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<200 UJ	<2.0 UJ	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>100,000</b>	<b>91</b>	<b>99.9%</b>	<b>110,000</b>	<b>55</b>	<b>&gt; 99.9%</b>	<b>58,000</b>	<b>14</b>	<b>&gt; 99.9%</b>	<b>93,000</b>	<b>280</b>	<b>99.7%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>100,000</b>	<b>91</b>	<b>99.9%</b>	<b>110,000</b>	<b>55</b>	<b>&gt; 99.9%</b>	<b>62,000</b>	<b>14</b>	<b>&gt; 99.9%</b>	<b>96,000</b>	<b>290</b>	<b>99.7%</b>

**Notes**

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

2 - Total Table 3+ (17 Compounds) does not include 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.

UJ - Analyte not detected. Reporting limit 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.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"



**Table 4a**  
**Summary of Wet Weather Analytical Results - Seep A**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-A-INFLUENT- RAIN-24-120921 Sample Date: 09-Dec-21	SEEP-A-EFFLUENT- RAIN-19-120921 Sample Date: 09-Dec-21	Percent Removal
Hfpo Dimer Acid	<b>21,000 B</b>	<b>26 B</b>	99.9%
PFMOAA	<b>33,000 B</b>	<b>110 B</b>	99.7%
PFO2HxA	<b>23,000 B</b>	<b>39 B</b>	99.8%
PFO3OA	<b>7,700 B</b>	<b>10 B</b>	99.9%
PFO4DA	<b>4,100 B</b>	<b>5.2 B</b>	99.9%
PFO5DA	<b>2,200 B</b>	<b>2.2 B</b>	99.9%
PMPA	<b>9,800 B</b>	<b>34 B</b>	99.7%
PEPA	<b>4,200 B</b>	<20 UJ	100.0%
PS Acid	<b>1,800 B</b>	<2.0 UJ	100.0%
Hydro-PS Acid	<b>860 J</b>	<2.0 UJ	100.0%
R-PSDA	<b>1,500 J</b>	<2.0 UJ	100.0%
Hydrolyzed PSDA	<b>26,000 B</b>	<b>33 B</b>	99.9%
R-PSDCA	<200 UJ	<2.0 UJ	100.0%
NVHOS, Acid Form	<b>920 B</b>	<2.0 UJ	100.0%
EVE Acid	<b>270 J</b>	<2.0 UJ	100.0%
Hydro-EVE Acid	<b>870 B</b>	<2.0 UJ	100.0%
R-EVE	<b>710 B</b>	<2.0 UJ	100.0%
PES	<200 UJ	<2.0 UJ	100.0%
PFECA B	<200 UJ	<2.0 UJ	100.0%
PFECA-G	<200 UJ	<2.0 UJ	100.0%
<b>Total Table 3+ (17 Compounds) <sup>[1,2]</sup></b>	<b>110,000</b>	<b>230</b>	<b>99.8%</b>
<b>Total Table 3+ (20 Compounds) <sup>[1]</sup></b>	<b>140,000</b>	<b>260</b>	<b>99.8%</b>

**Notes:**

1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.

2 - Total Table 3+ (17 Compounds) does not include R-PSDA, Hydrolyzed PSDA and R-EVE.

3 - No wet weather samples were collected in November as there was no qualifying rain event to trigger collection.

**Bold** - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

J - Analyte detected. Reported value may not be accurate or precise.

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 4b**  
**Summary of Wet Weather Analytical Results - Seep B**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-B-INFLUENT- RAIN-24-120921 Sample Date: 09-Dec-21	SEEP-B-EFFLUENT- RAIN-19-120921 Sample Date: 09-Dec-21	Percent Removal
Hfpo Dimer Acid	<b>31,000 B</b>	<2.0 UJ	100.0%
PFMOAA	<b>58,000 B</b>	<b>18 B</b>	> 99.9%
PFO2HxA	<b>25,000 B</b>	<b>4.9 B</b>	> 99.9%
PFO3OA	<b>7,100 B</b>	<2.0 UJ	100.0%
PFO4DA	<b>1,300 B</b>	<2.0 UJ	100.0%
PFO5DA	<b>220 B</b>	<2.0 UJ	100.0%
PMPA	<b>27,000 J</b>	<b>17 B</b>	99.9%
PEPA	<b>17,000 J</b>	<20 UJ	100.0%
PS Acid	<b>1,500 B</b>	<2.0 UJ	100.0%
Hydro-PS Acid	<b>800 J</b>	<2.0 UJ	100.0%
R-PSDA	<b>4,100 J</b>	<2.0 UJ	100.0%
Hydrolyzed PSDA	<b>45,000 B</b>	<2.0 UJ	100.0%
R-PSDCA	<200 UJ	<2.0 UJ	100.0%
NVHOS, Acid Form	<b>1,900 B</b>	<2.0 UJ	100.0%
EVE Acid	<b>1,300 J</b>	<2.0 UJ	100.0%
Hydro-EVE Acid	<b>1,800 B</b>	<2.0 UJ	100.0%
R-EVE	<b>3,300 J</b>	<2.0 UJ	100.0%
PES	<200 UJ	<2.0 UJ	100.0%
PFECA B	<200 UJ	<2.0 UJ	100.0%
PFECA-G	<200 UJ	<2.0 UJ	100.0%
<b>Total Table 3+ (17 Compounds)<sup>[1,2]</sup></b>	<b>170,000</b>	<b>40</b>	<b>&gt; 99.9%</b>
<b>Total Table 3+ (20 Compounds)<sup>[1]</sup></b>	<b>230,000</b>	<b>40</b>	<b>&gt; 99.9%</b>

**Notes:**

- 1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.
- 2 - Total Table 3+ (17 Compounds) does not include R-PSDA, Hydrolyzed PSDA and R-EVE.
- 3 - No wet weather samples were collected in November as there was no qualifying rain event to trigger collection.

**Bold** - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

J - Analyte detected. Reported value may not be accurate or precise.

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 4c**  
**Summary of Wet Weather Analytical Results - Seep C**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-C-INFLUENT- RAIN-24-120921 Sample Date: 09-Dec-21	SEEP-C-EFFLUENT- RAIN-24-120921 Sample Date: 09-Dec-21	Percent Removal
Hfpo Dimer Acid	<b>17,000 B</b>	<b>47 B</b>	99.7%
PFMOAA	<b>32,000 B</b>	<b>130 B</b>	99.6%
PFO2HxA	<b>16,000 B</b>	<b>56 B</b>	99.7%
PFO3OA	<b>5,600 B</b>	<b>18 B</b>	99.7%
PFO4DA	<b>1,900 B</b>	<b>6.9 B</b>	99.6%
PFO5DA	<200 UJ	<2.0 UJ	100.0%
PMPA	<b>5,700 B</b>	<b>23 B</b>	99.6%
PEPA	<b>2,100 B</b>	<20 UJ	100.0%
PS Acid	<200 UJ	<2.0 UJ	100.0%
Hydro-PS Acid	<b>330 J</b>	<2.0 UJ	100.0%
R-PSDA	<b>580 J</b>	<b>2.9 J</b>	99.5%
Hydrolyzed PSDA	<b>920 B</b>	<2.0 UJ	100.0%
R-PSDCA	<200 UJ	<2.0 UJ	100.0%
NVHOS, Acid Form	<b>450 B</b>	<2.0 UJ	100.0%
EVE Acid	<200 UJ	<2.0 UJ	100.0%
Hydro-EVE Acid	<b>980 B</b>	<b>3.5 B</b>	99.6%
R-EVE	<b>740 B</b>	<b>3.3 B</b>	99.6%
PES	<200 UJ	<2.0 UJ	100.0%
PFECA B	<200 UJ	<2.0 UJ	100.0%
PFECA-G	<200 UJ	<2.0 UJ	100.0%
<b>Total Table 3+ (17 Compounds)<sup>[1,2]</sup></b>	<b>82,000</b>	<b>280</b>	<b>99.7%</b>
<b>Total Table 3+ (20 Compounds)<sup>[1]</sup></b>	<b>84,000</b>	<b>290</b>	<b>99.7%</b>

**Notes:**

- 1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.
- 2 - Total Table 3+ (17 Compounds) does not include R-PSDA, Hydrolyzed PSDA and R-EVE.
- 3 - No wet weather samples were collected in November as there was no qualifying rain event to trigger collection.

**Bold** - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

J - Analyte detected. Reported value may not be accurate or precise.

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 4d**  
**Summary of Wet Weather Analytical Results - Seep D**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-D-INFLUENT- RAIN-24-120921 Sample Date: 09-Dec-21	SEEP-D-EFFLUENT- RAIN-24-120921 Sample Date: 09-Dec-21	Percent Removal
Hfpo Dimer Acid	<b>12,000 B</b>	<2.0 UJ	100.0%
PFMOAA	<b>35,000 B</b>	<b>13 B</b>	> 99.9%
PFO2HxA	<b>17,000 B</b>	<b>2.5 B</b>	> 99.9%
PFO3OA	<b>5,300 B</b>	<2.0 UJ	100.0%
PFO4DA	<b>1,600 B</b>	<2.0 UJ	100.0%
PFO5DA	<200 UJ	<2.0 UJ	100.0%
PMPA	<b>5,000 B</b>	<10 UJ	100.0%
PEPA	<2,000 UJ	<20 UJ	100.0%
PS Acid	<200 UJ	<2.0 UJ	100.0%
Hydro-PS Acid	<b>240 J</b>	<2.0 UJ	100.0%
R-PSDA	<b>880 J</b>	<2.0 UJ	100.0%
Hydrolyzed PSDA	<b>2,700 B</b>	<2.0 UJ	100.0%
R-PSDCA	<200 UJ	<2.0 UJ	100.0%
NVHOS, Acid Form	<b>670 B</b>	<2.0 UJ	100.0%
EVE Acid	<200 UJ	<2.0 UJ	100.0%
Hydro-EVE Acid	<b>890 B</b>	<2.0 UJ	100.0%
R-EVE	<b>750 B</b>	<2.0 UJ	100.0%
PES	<200 UJ	<2.0 UJ	100.0%
PFECA B	<200 UJ	<2.0 UJ	100.0%
PFECA-G	<200 UJ	<2.0 UJ	100.0%
<b>Total Table 3+ (17 Compounds)<sup>[1,2]</sup></b>	<b>78,000</b>	<b>16</b>	<b>&gt; 99.9%</b>
<b>Total Table 3+ (20 Compounds)<sup>[1]</sup></b>	<b>82,000</b>	<b>16</b>	<b>&gt; 99.9%</b>

**Notes:**

- 1 - Total Table 3+ was calculated including J qualified data but not non-detect data. The total Table 3+ sum is rounded to two significant figures.
- 2 - Total Table 3+ (17 Compounds) does not include R-PSDA, Hydrolyzed PSDA and R-EVE.
- 3 - No wet weather samples were collected in November as there was no qualifying rain event to trigger collection.

**Bold** - Analyte detected above associated reporting limit.

B - Not detected substantially above the level reported in the laboratory or field blanks.

J - Analyte detected. Reported value may not be accurate or precise.

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

< - Analyte not detected above associated reporting limit.

ND - No Table 3+ compounds were detected above their associated reporting limits.

Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 5**  
**Cape Fear River Elevation and Local Precipitation Statistics**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

Seep	# of Days of Operation on Record	# of Days in Reporting Period	River Above Wall Elevation		River Above Spillway Elevation		River Above GAC Elevation		River Above Discharge Pipe	
			Percent of Reporting Period	Number of Days	Percent of Reporting Period	Number of Days	Percent of Reporting Period	Number of Days	Percent of Reporting Period	Number of Days
C	381	61	0%	0.0	0%	0.0	0%	0.0	0%	0.0
A	248	61	0%	0.0	0%	0.0	0%	0.0	0%	0.0
B	207	61	0%	0.0	0%	0.0	0%	0.0	0%	0.0
D	191	61	0%	0.0	0%	0.0	0%	0.0	0%	0.0
Historical Annual Average (2007-2020)			1.7%		2.2%		3.7%		9.6%	

Precipitation (inches)	
Current Reporting Period (Nov - Dec 2021)	2.78
Current Reporting Period Historical Average (Nov - Dec 2004-2020) <sup>2</sup>	7.24
2021 Year-to-Date <sup>3</sup>	43.45
Historical Year-to-Date Average (2004-2020) <sup>2</sup>	43.44
Historical Annual Average (2004-2020) <sup>2</sup>	43.44

*Notes*

- 1 River elevation and precipitation data from USGS Huske Lock and Dam site 02105500.
- 2 The historical average was calculated using available data when the Huske rain gauge was operable.
- 3 The precipitation data downloaded from USGS for the site 02105500 had missing rainfall information from May 7 through May 27. Onsite meteorological data was used to supplement this gap.

**Table 6a**  
**Water Quality Data - Seep A**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
11/8/2021	6.3	2.8	-3.5	3.7	5.2	1.5	163	129	-34	13	14	1	5.09	0.83	-4.26	0	0	0
11/12/2021	6.3	2.8	-3.5	3.7	5.2	1.5	163	129	-34	13	14	1	5.06	0.38	-4.68	NM	NM	--
11/29/2021	6.3	6.4	0.1	3.9	5.1	1.2	153	121	-32	10	10	0	0.00	0.00	0.00	0	0	0
12/9/2021	7.8	9.9	2.1	4.9	5.7	0.8	129	108	-21	10	10	0	31.25	0.15	-31.10	0	0	0
12/15/2021	14.4	5.0	-9.4	9.6	5.8	-3.8	1,532	377	-1155	12	11	-1	1077.80	0.00	-1077.80	0	0	0
12/30/2021	5.4	5.3	-0.1	5.8	7.4	1.6	147	119	-28	14	13	-1	3.87	0.71	-3.16	0	0	0
<i>Average</i>	<i>7.7</i>	<i>5.4</i>	<i>-2.3</i>	<i>5.3</i>	<i>5.7</i>	<i>0.4</i>	<i>381.0</i>	<i>163.7</i>	<i>-217.3</i>	<i>12.1</i>	<i>12.0</i>	<i>-0.1</i>	<i>187.2</i>	<i>0.3</i>	<i>-186.9</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>6.3</i>	<i>5.2</i>	<i>-1.1</i>	<i>4.4</i>	<i>5.5</i>	<i>1.1</i>	<i>157.8</i>	<i>124.8</i>	<i>-33.0</i>	<i>12.6</i>	<i>12.1</i>	<i>-0.5</i>	<i>5.1</i>	<i>0.3</i>	<i>-4.8</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

Notes:

- DO dissolved oxygen
- mg/L milligrams per liter
- SU standard units
- NTU nephelometric turbidity units
- µS/cm microSiemens per centimeter
- TSS total suspended solids
- NM Not Measured

**Table 6b**  
**Water Quality Data - Seep B**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
11/8/2021	5.2	2.1	-3.1	5.6	7.1	1.5	127	117	-10	15	15	0	3.69	0.42	-3.27	0	0	0
11/29/2021	3.8	6.1	2.3	5.0	5.2	0.2	116	109	-7	13	12	-1	0.00	0.00	0.00	0	0	0
12/9/2021	5.8	8.4	2.6	4.7	6.2	1.5	122	100	-22	11	11	0	17.15	0.00	-17.15	0	0	0
12/15/2021	12.5	5.6	-6.9	5.1	6.3	1.2	115	97	-18	13	16	3	0.00	0.00	0.00	0	0	0
12/30/2021	5.5	5.8	0.3	5.5	6.1	0.6	126	119	-7	15	15	0	2.64	0.95	-1.69	0	0	0
<i>Average</i>	<i>6.5</i>	<i>5.6</i>	<i>-0.9</i>	<i>5.2</i>	<i>6.2</i>	<i>1.0</i>	<i>121.1</i>	<i>108.3</i>	<i>-12.8</i>	<i>13.4</i>	<i>13.8</i>	<i>0.4</i>	<i>4.7</i>	<i>0.3</i>	<i>-4.4</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>5.5</i>	<i>5.8</i>	<i>0.3</i>	<i>5.1</i>	<i>6.2</i>	<i>1.1</i>	<i>122.2</i>	<i>108.5</i>	<i>-13.7</i>	<i>13.1</i>	<i>14.7</i>	<i>1.6</i>	<i>2.6</i>	<i>0.0</i>	<i>-2.6</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

Notes:

- DO dissolved oxygen
- mg/L milligrams per liter
- SU standard units
- NTU nephelometric turbidity units
- µS/cm microSiemens per centimeter
- TSS total suspended solids
- NM Not Measured

**Table 6c**  
**Water Quality Data - Seep C**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
11/12/2021	4.9	5.4	0.5	5.2	6.5	1.3	88	72	-16	12	16	4	10.10	0.50	-9.60	NM	NM	--
11/29/2021	4.0	5.5	1.5	4.6	6.0	1.4	75	69	-6	9	10	1	0.00	0.00	0.00	0	0	0
12/9/2021	8.4	7.8	-0.6	7.3	6.8	-0.5	127	114	-13	10	10	0	32.15	355.93	323.78	0	0	0
12/15/2021	5.7	8.2	2.5	6.6	8.4	1.8	105	152	47	10	12	2	77.28	27.37	-49.91	0	0	0
12/30/2021	9.2	8.5	-0.7	6.2	6.4	0.2	97	0	-97	13	15	2	83.80	59.40	-24.40	0	0	0
<i>Average</i>	<i>6.4</i>	<i>7.1</i>	<i>0.7</i>	<i>6.0</i>	<i>6.8</i>	<i>0.8</i>	<i>98.3</i>	<i>81.4</i>	<i>-16.9</i>	<i>11.0</i>	<i>12.5</i>	<i>1.5</i>	<i>40.7</i>	<i>88.6</i>	<i>47.9</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>5.7</i>	<i>7.8</i>	<i>2.1</i>	<i>6.2</i>	<i>6.5</i>	<i>0.3</i>	<i>97.0</i>	<i>72.4</i>	<i>-24.6</i>	<i>10.5</i>	<i>12.3</i>	<i>1.8</i>	<i>32.2</i>	<i>27.4</i>	<i>-4.8</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

Notes:

DO dissolved oxygen  
 mg/L milligrams per liter  
 SU standard units  
 NTU nephelometric turbidity units  
 µS/cm microSiemens per centimeter  
 TSS total suspended solids  
 NM Not Measured



**Table 6d**  
**Water Quality Data - Seep D**  
**Reporting Period 6 (November - December 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

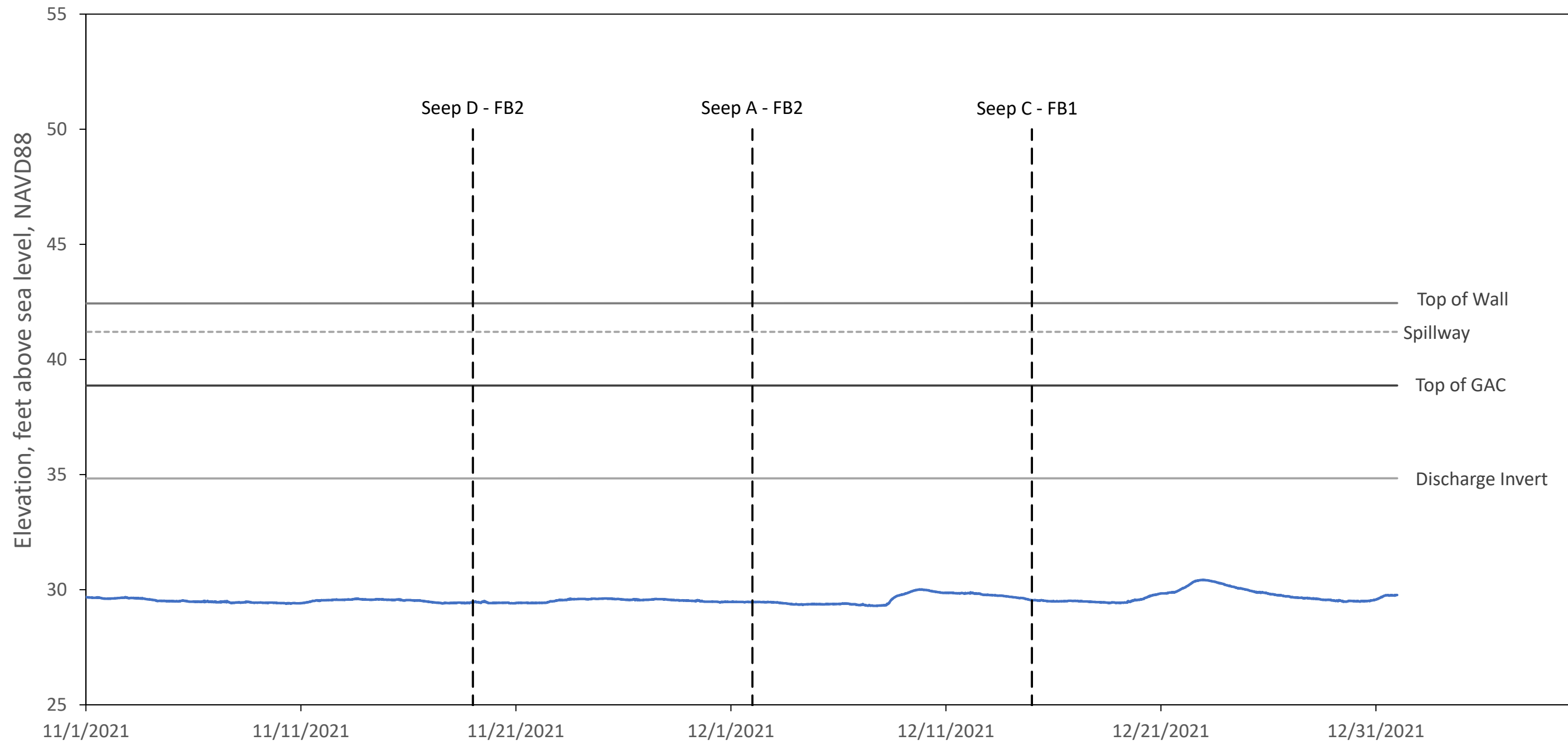
Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
11/12/2021	4.9	2.8	-2.1	3.7	5.4	1.7	81	112	31	17	14	-3	22.10	0.32	-21.78	NM	NM	--
11/28/2021	NM	NM	--	NM	NM	--	NM	NM	--	NM	NM	--	NM	NM	--	NM	NM	--
12/9/2021	5.8	8.6	2.8	4.4	5.6	1.2	154	116	-38	11	11	0	8.37	0.18	-8.19	0	0	0
12/15/2021	5.9	8.6	2.7	6.6	6.5	-0.1	246	125	-121	12	12	0	12.22	0.00	-12.22	0	0	0
12/30/2021	4.7	6.8	2.1	5.6	6.6	1.0	150	114	-36	15	14	-1	19.60	0.78	-18.82	0	0	0
<i>Average</i>	<i>5.3</i>	<i>6.7</i>	<i>1.4</i>	<i>5.1</i>	<i>6.0</i>	<i>0.9</i>	<i>157.9</i>	<i>116.7</i>	<i>-41.2</i>	<i>13.7</i>	<i>12.7</i>	<i>-1.0</i>	<i>15.6</i>	<i>0.3</i>	<i>-15.3</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>5.4</i>	<i>7.7</i>	<i>2.3</i>	<i>5.0</i>	<i>6.1</i>	<i>1.1</i>	<i>152.1</i>	<i>114.9</i>	<i>-37.2</i>	<i>13.3</i>	<i>12.9</i>	<i>-0.4</i>	<i>15.9</i>	<i>0.3</i>	<i>-15.6</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>

Notes:

DO dissolved oxygen  
 mg/L milligrams per liter  
 SU standard units  
 NTU nephelometric turbidity units  
 µS/cm microSiemens per centimeter  
 TSS total suspended solids  
 NM Not Measured

# FIGURES

River Elevation During Flow Through Cell Operation (11/01/2021 through 12/31/2021)



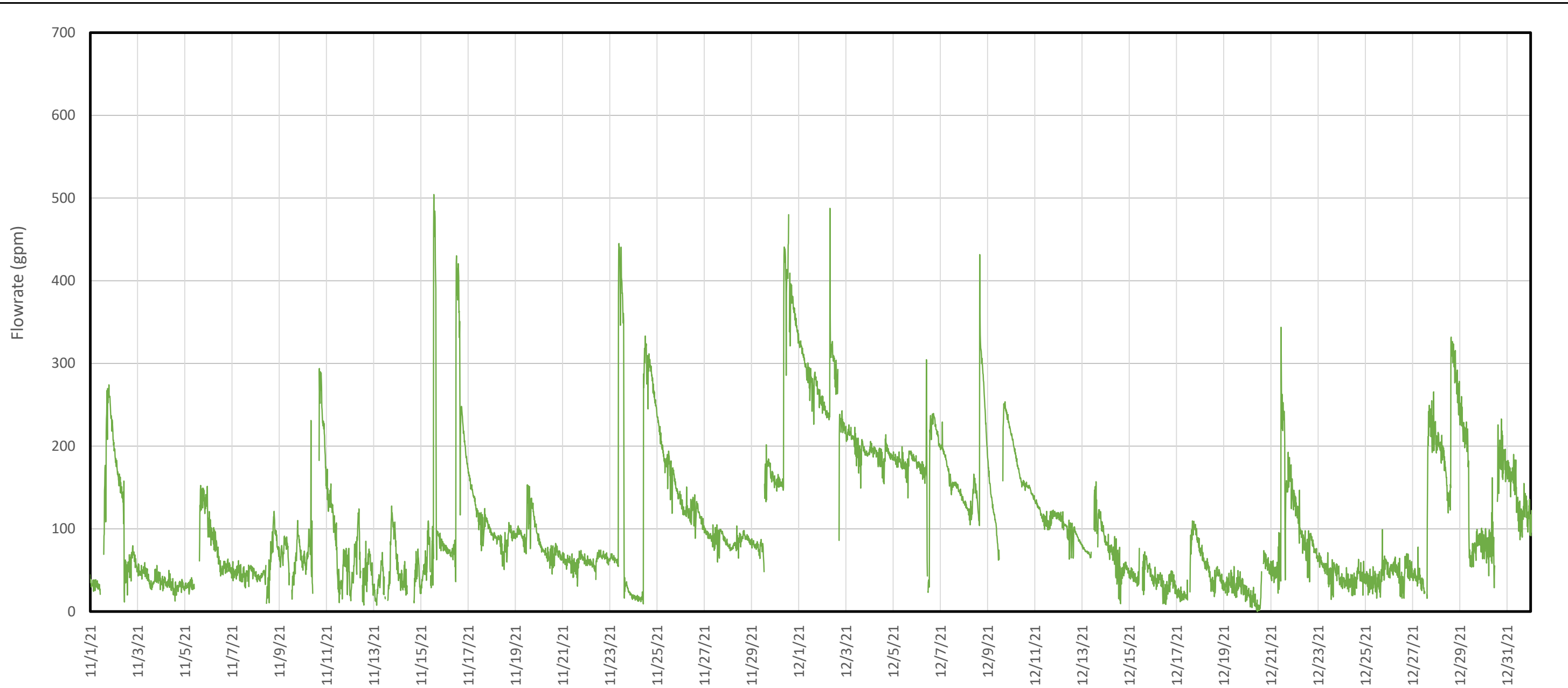
Legend

- River
- - GAC Changeout

Notes:

As-built survey information for Seep C from RMA Surveying October 2020.  
 River elevation from USGS Huske Lock and Dam site 02105500, converted to NAVD88.  
 For clarity of presentation, Figure 1 shows Seep C elevations only.  
 FB1/FB2 = Filter Bed 1/Filter Bed 2  
 GAC = Granular Activated Carbon

<b>River Level &amp; FTC As-Built Elevations</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec <sup>®</sup> consultants <small>Geosyntec Consultants of NC, P.C.                  NC License No.: C 3500 and C 295</small>	<b>Figure</b>
Raleigh, NC	January 2022
<b>1</b>	



Legend  
— Measured Discharge Flowrate

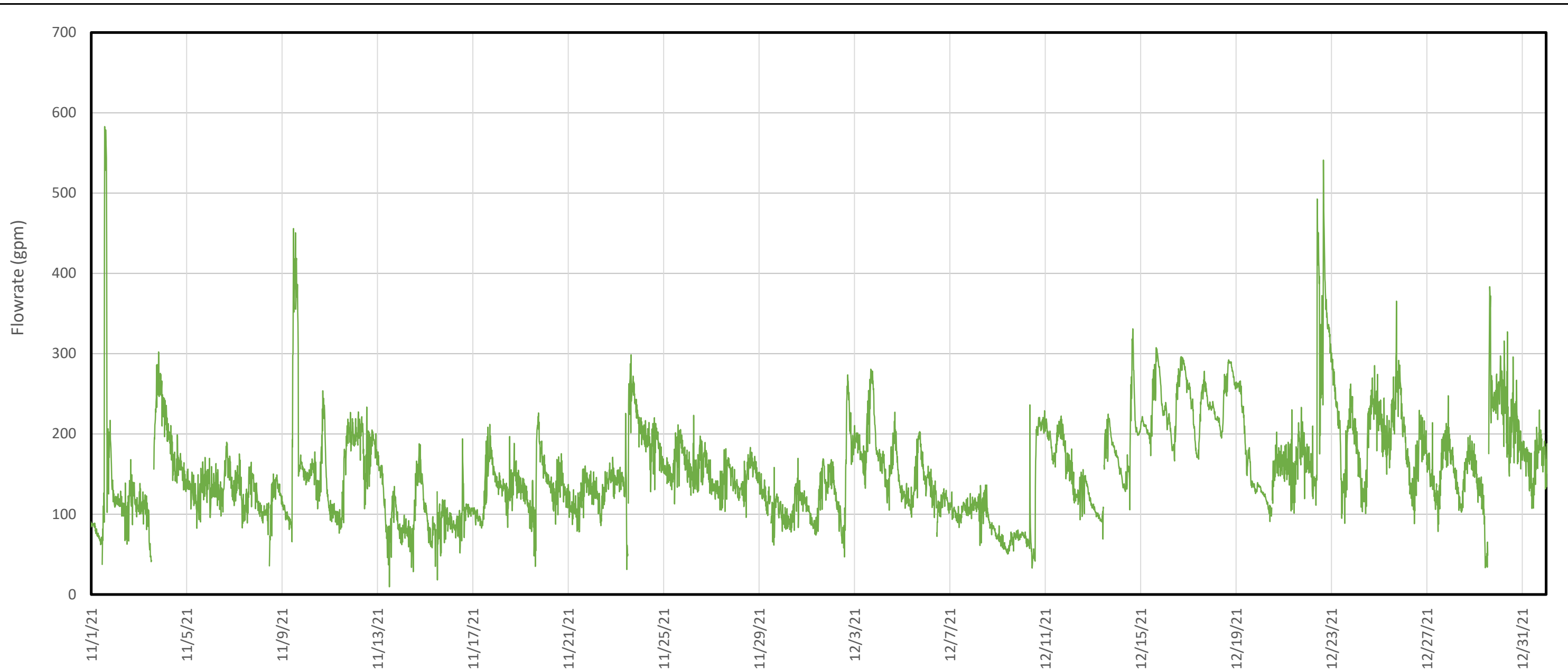
**Flowrate Statistics (gpm)**

	(11/01 - 12/31)	Since Startup
Median	82	106
95 <sup>th</sup> percentile	275	291
Max	504	882

Notes:  
 gpm - gallons per minute  
 Figure 2a depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

<b>Measured Discharge Flowrate          (Nov - Dec 2021) - Seep A</b> Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	January 2022

**Figure  
2a**



**Legend**

— Measured Discharge Flowrate

**Flowrate Statistics (gpm)**

	(11/01 - 12/31)	Since Startup
Median	145	120
95 <sup>th</sup> percentile	263	252
Max	583	1,153

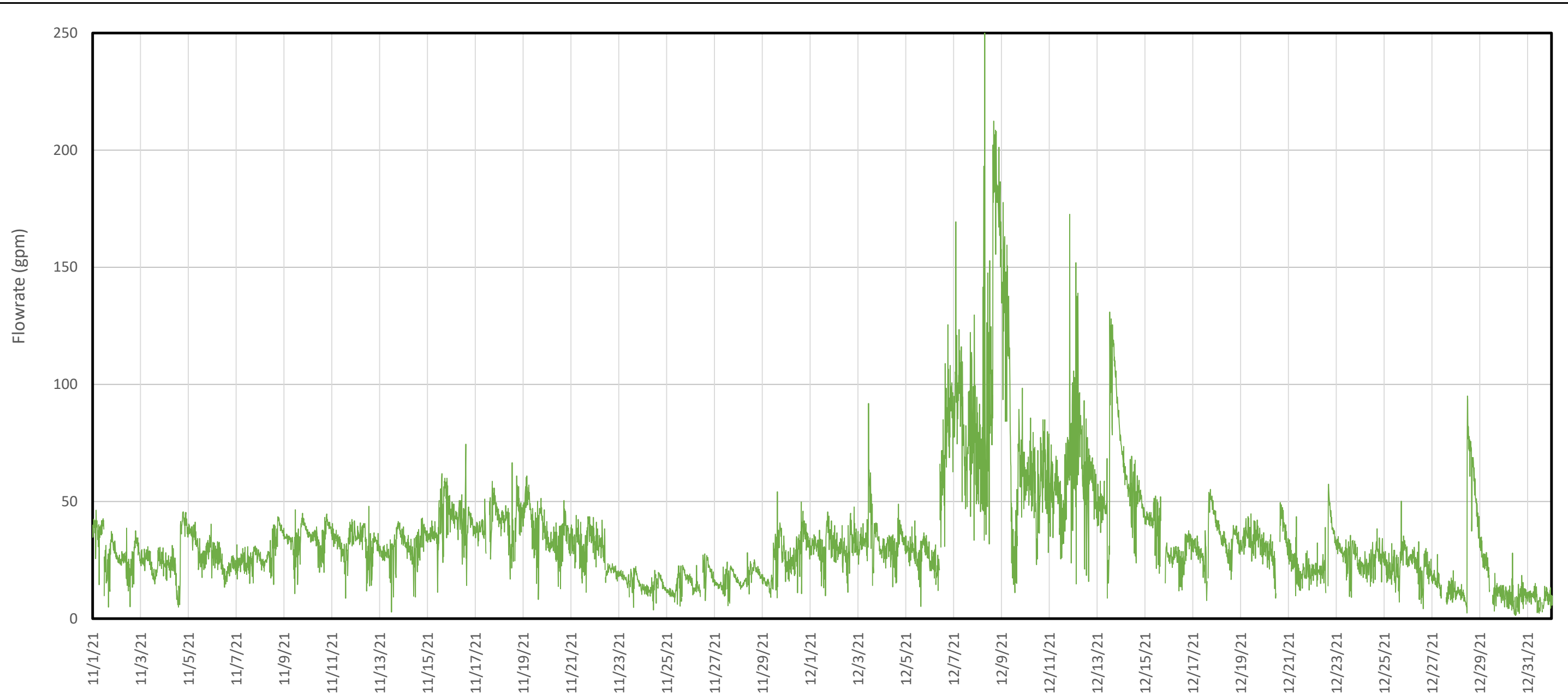
**Notes:**

gpm - gallons per minute

Figure 2b depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

<b>Measured Discharge Flowrate</b> <b>(Nov - Dec 2021) - Seep B</b> Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022

**Figure 2b**



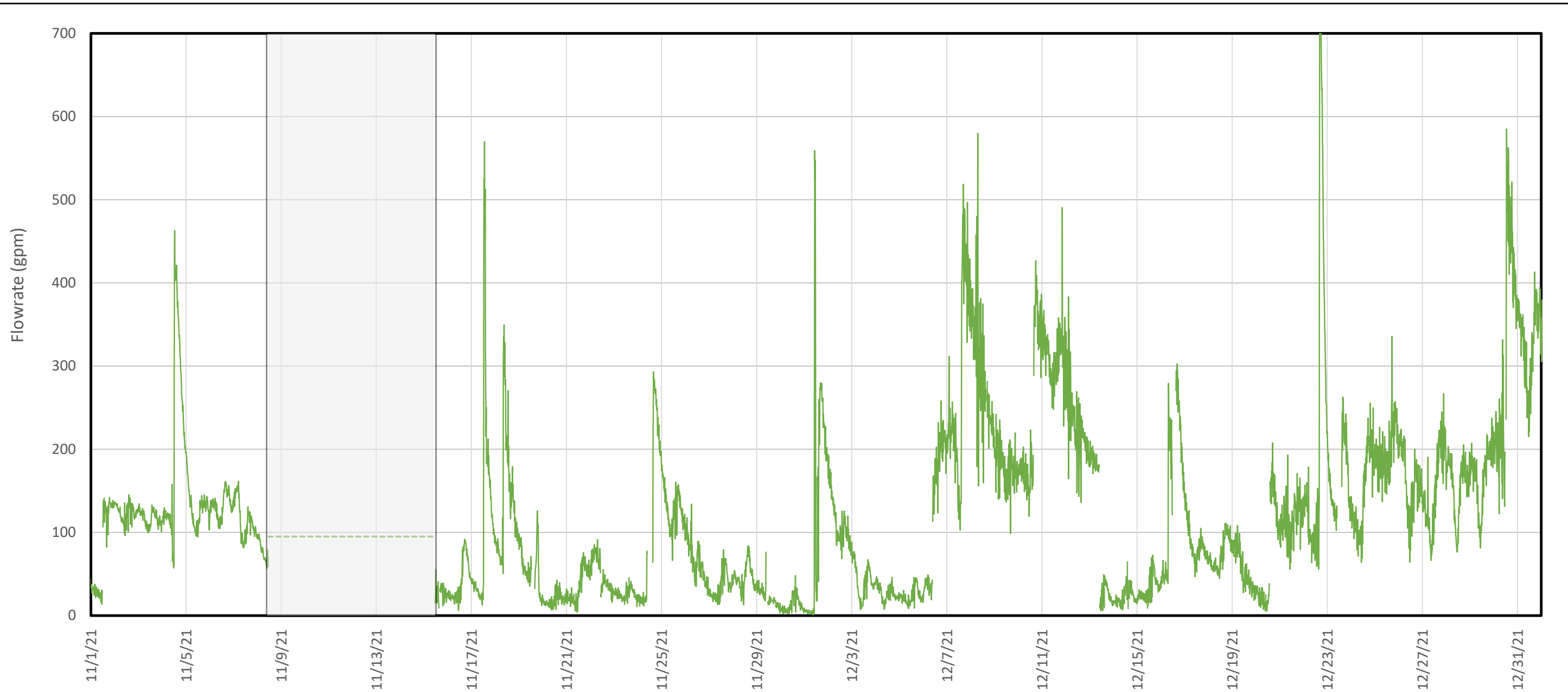
Legend  
 — Measured Discharge Flowrate  
 - - Imputed Discharge Flowrate

Notes:  
 gpm - gallons per minute  
 Figure 2c depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

**Flowrate Statistics (gpm)**

	(11/01 - 12/31)	Since Startup
Median	30	70
95 <sup>th</sup> percentile	76	155
Max	268	372

<b>Measured Discharge Flowrate (Nov - Dec 2021) - Seep C</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <sup>®</sup> consultants	<b>Figure</b>  <b>2c</b>
Raleigh, NC	January 2022



**Legend**  
 — Measured Discharge Flowrate  
 - - Imputed Discharge Flowrate  
 □ Transducer Data Gap

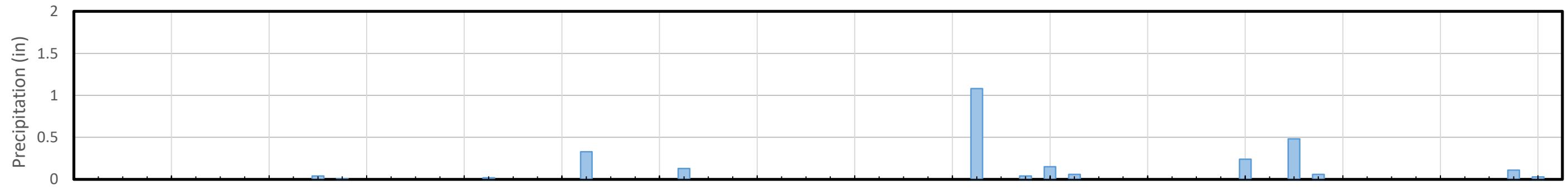
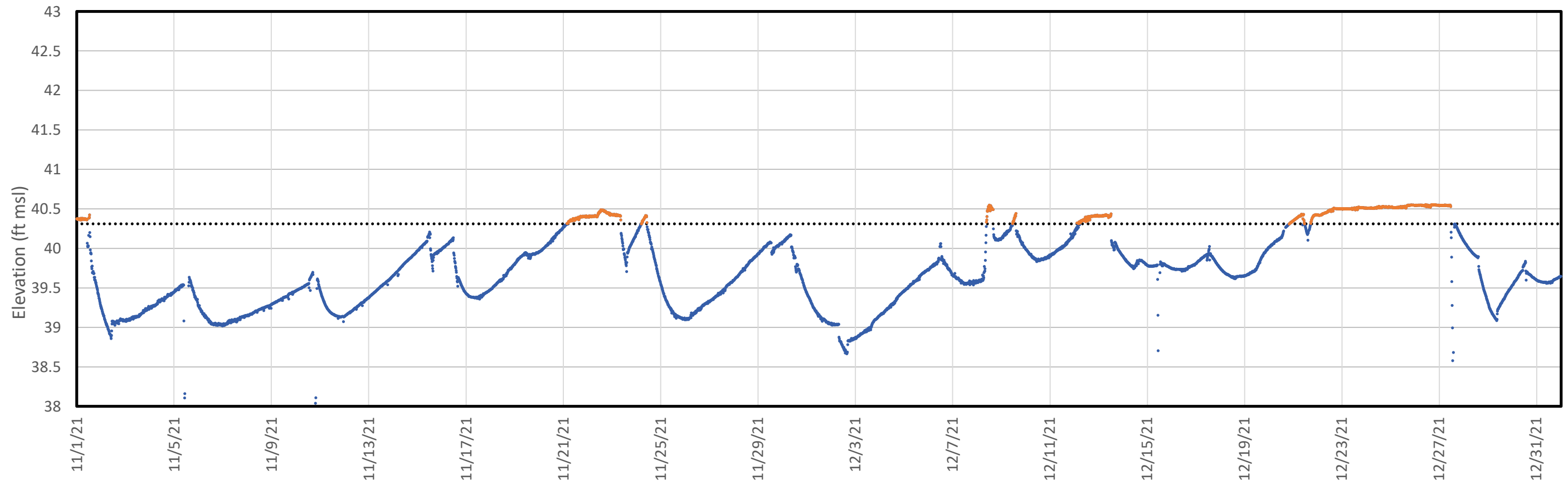
**Flowrate Statistics (gpm)**

	(11/01 - 12/31)	Since Startup
Median	104	115
95 <sup>th</sup> percentile	339	318
Max	836	836

**Notes:**  
 gpm - gallons per minute  
 Figure 2d depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data. Seep D effluent transducer data from November 8, 11:20 through November 15, 11:05 was not retrieved. Where transducer data was missing (grey shading) but flow through the System was observed (i.e., non-flooding conditions), flowrate was extrapolated (dashed green). The imputed flowrate was calculated as the median of measured flowrates from 3 days before and after the data gap. Section 3 describes the gaps in transducer data record.

<b>Measured Discharge Flowrate (Nov - Dec 2021) - Seep D</b> Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	January 2022

Figure  
2d



Legend

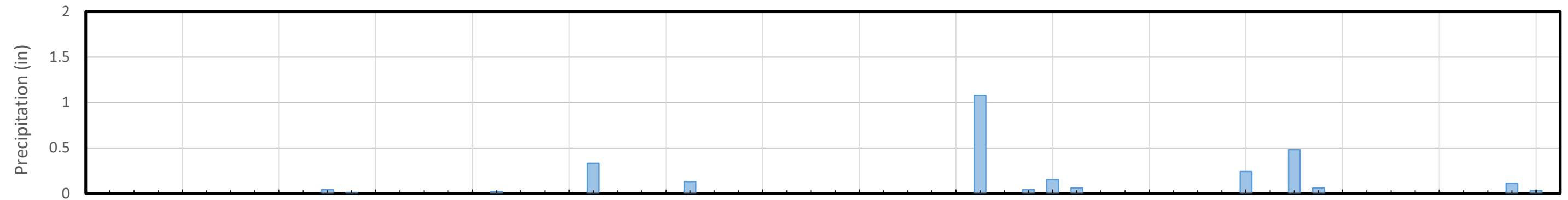
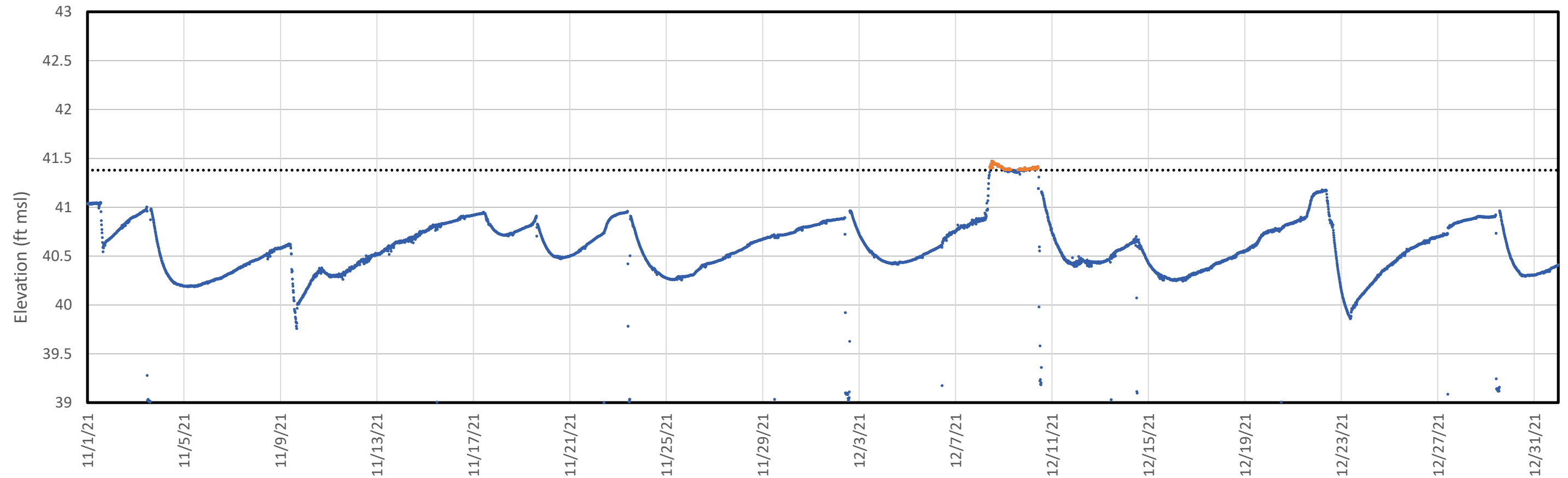
- Influent Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- ◆◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)

Notes:

Figure 3a depicts the influent transducer data that was collected during the reporting period (blue line). Instances of impoundment bypass flow are shown in orange. Precipitation data obtained from USGS gauge# 02105500 at the William O. Huske Lock and Dam. Seep A influent transducer data from November 8, 10:45 to November 15, 9:30 was not retrieved. Telemetry data collected at the Seep was used for this time period. Section 3 describes the gaps in transducer data record.

<b>Influent Water Elevation and Bypass Flow (Nov - Dec 2021) - Seep A</b>		<b>Figure 3a</b>
Chemours Fayetteville Works Fayetteville, North Carolina		
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	<b>3a</b>
Raleigh, NC	January 2022	





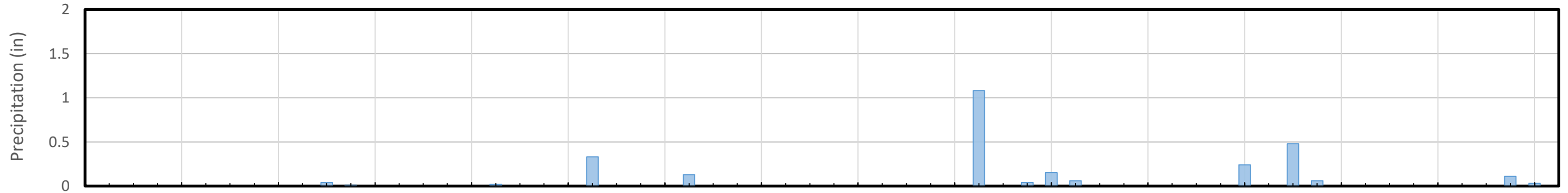
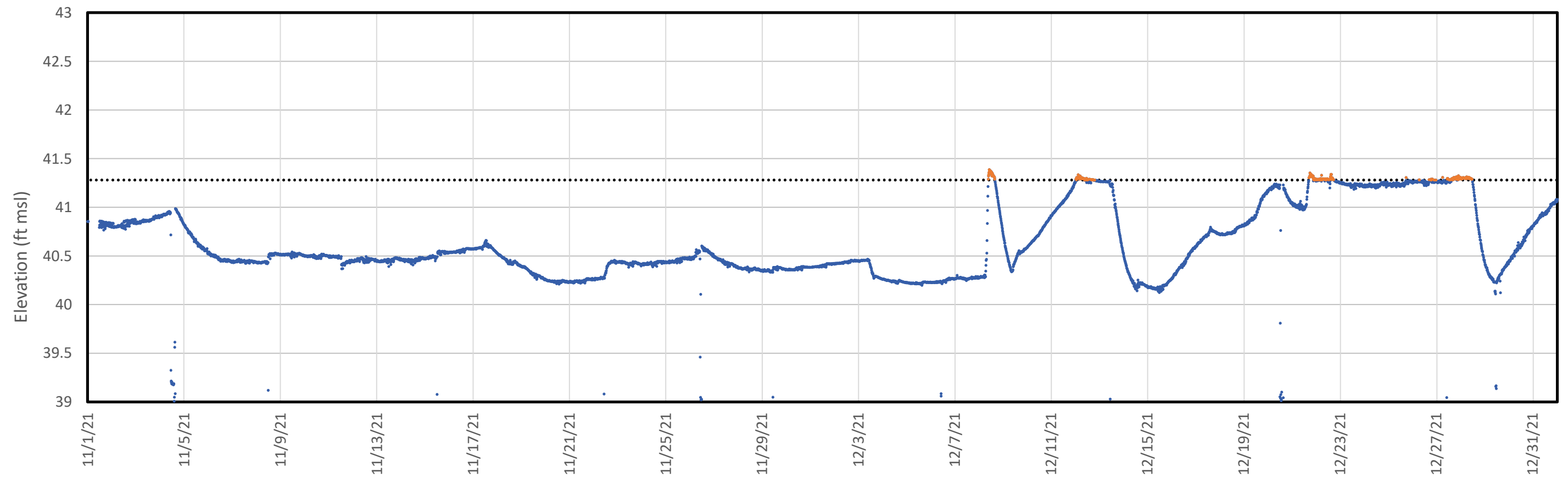
Legend

- Influent Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- ◆◆◆ Bypass Spillway Elevation
- █ USGS Precipitation (daily totals)

Notes:

Figure 3b shows the influent transducer data that was collected during the reporting period (blue line). Instances of impoundment bypass flow are shown in orange. Precipitation data obtained from USGS gauge# 02105500 at the William O. Huske Lock and Dam.

<b>Influent Water Elevation and Bypass Flow (Nov - Dec 2021) - Seep B</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022
<b>Figure 3b</b>	



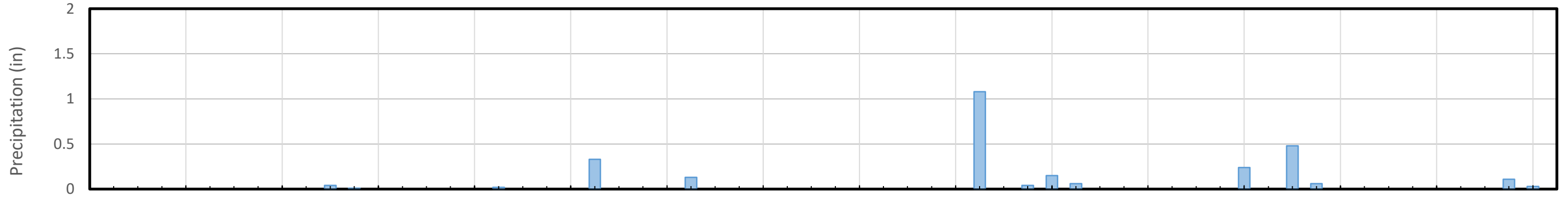
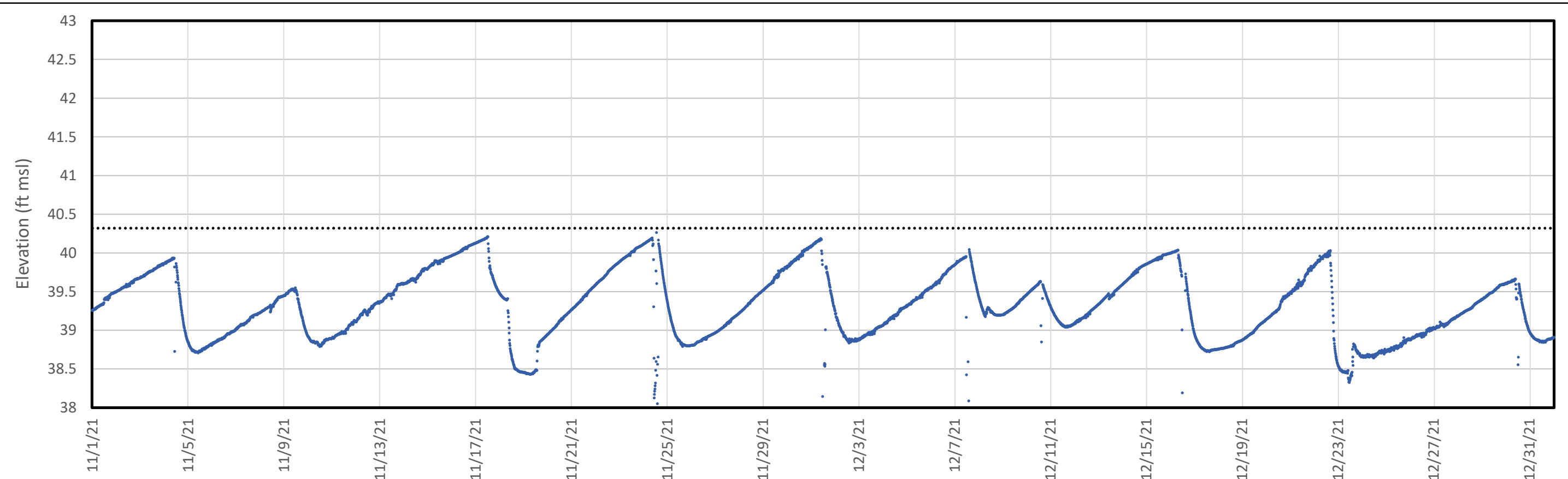
Legend

- Influent Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- ◆◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)

Notes:

Figure 3c shows the influent transducer data that was collected during the reporting period (blue line). Instances of impoundment bypass flow are shown in orange. Precipitation data obtained from USGS gauge# 02105500 at the William O. Huske Lock and Dam.

<b>Influent Water Elevation and Bypass Flow (Nov - Dec 2021) - Seep C</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<b>Figure</b>  <b>3c</b>
Raleigh, NC	January 2022



Legend

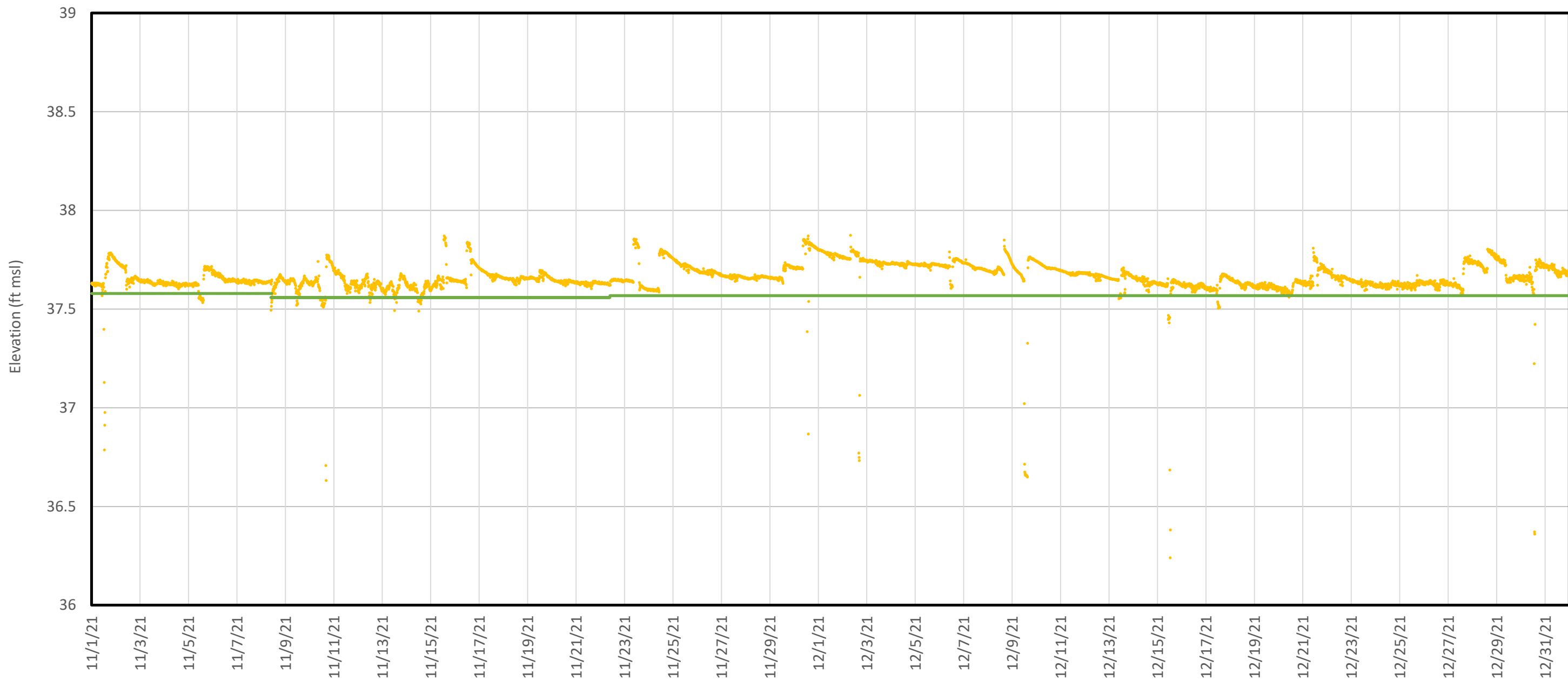
- Inflow Chamber/Impoundment Water Elevation
- ◆◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)

Notes:  
 Figure 3d shows the influent transducer data that was collected during the reporting period (blue line).  
 Precipitation data obtained from USGS gauge# 02105500 at the William O. Huske Lock and Dam.

<b>Influent Water Elevation and Bypass Flow (Nov - Dec 2021) - Seep D</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <sup>®</sup> consultants	<b>Figure</b>  <b>3d</b>
Raleigh, NC	January 2022

# APPENDIX A

## Transducer Data Reduction



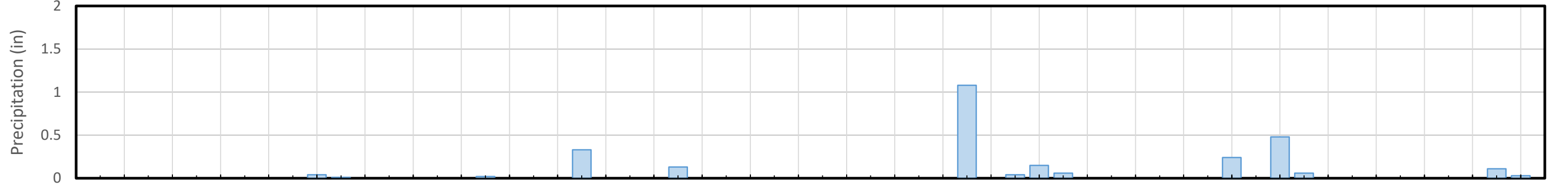
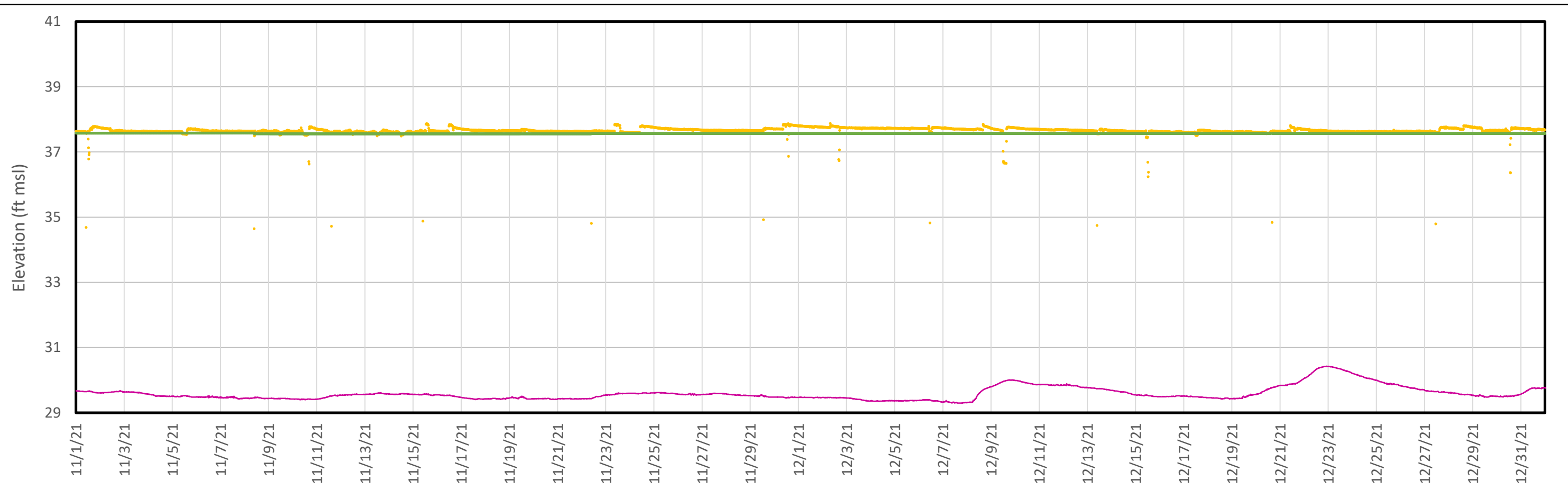
Legend

- Discharge Basin Elevation
- Weir 3 Elevation

Notes:

Figure A1-A shows the discharge basin transducer data that was collected during the reporting period.

<b>Discharge Basin Water Elevation - Seep A</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <sup>®</sup> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022
<b>Figure A1-A</b>	



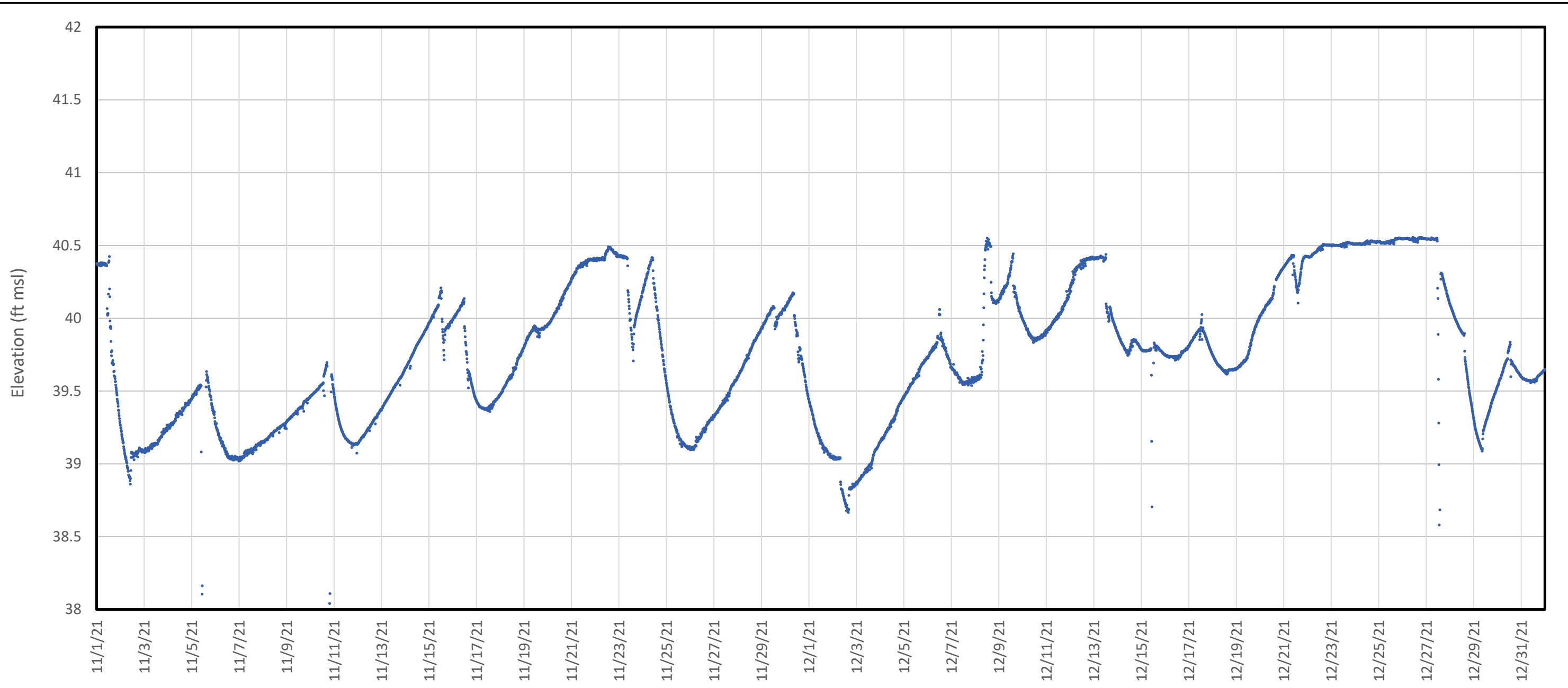
- Legend**
- Discharge Basin Water Elevation
  - River Stage
  - Weir 3 Elevation

■ USGS Precipitation (daily totals)

**Notes:**

As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-A compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).

<b>Discharge Basin Water Elevation and External Forcings - Seep A</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C-3500 and C-295</small>
Raleigh, NC	January 2022
<b>Figure A2-A</b>	



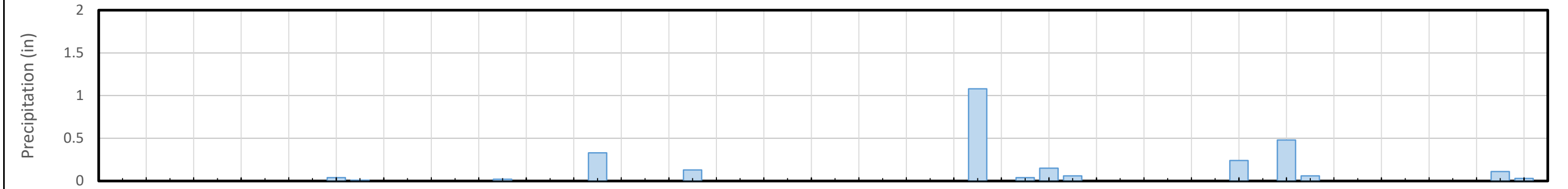
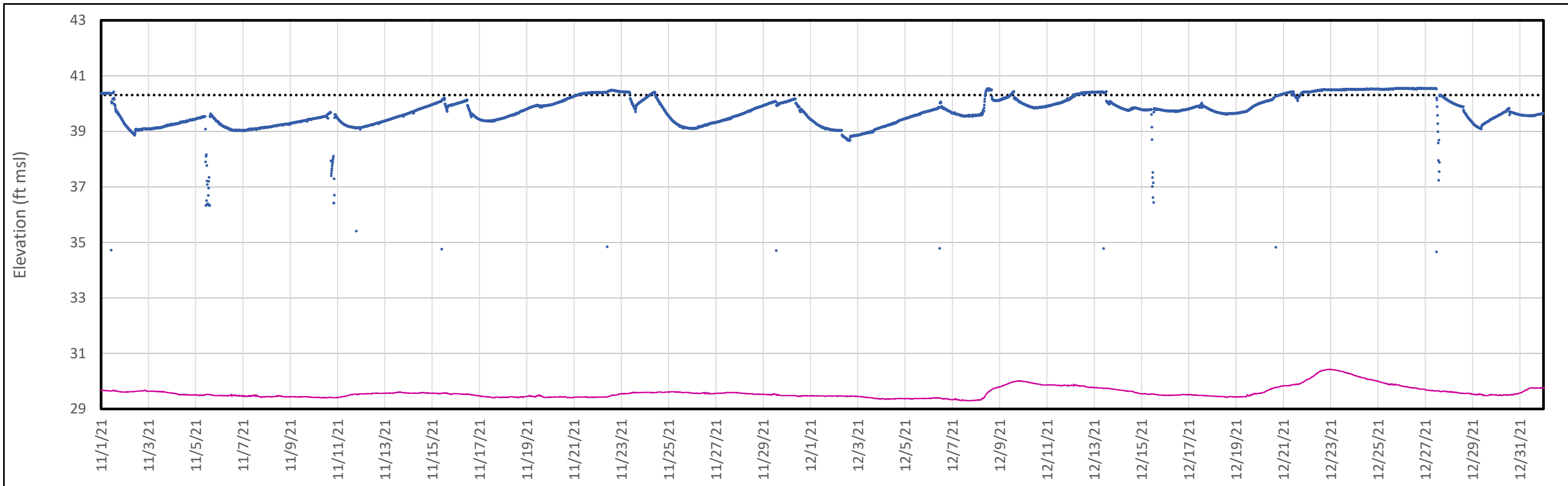
Legend

— Inlet Chamber/Impoundment Elevation

Notes:

Figure A3-A shows the influent transducer data that was collected during the reporting period. Seep A transducer data from November 8, 10:45 to November 15, 9:30 was not retrieved. Telemetry data collected at the Seep was used for this time period. Section 3 describes gaps in transducer data record.

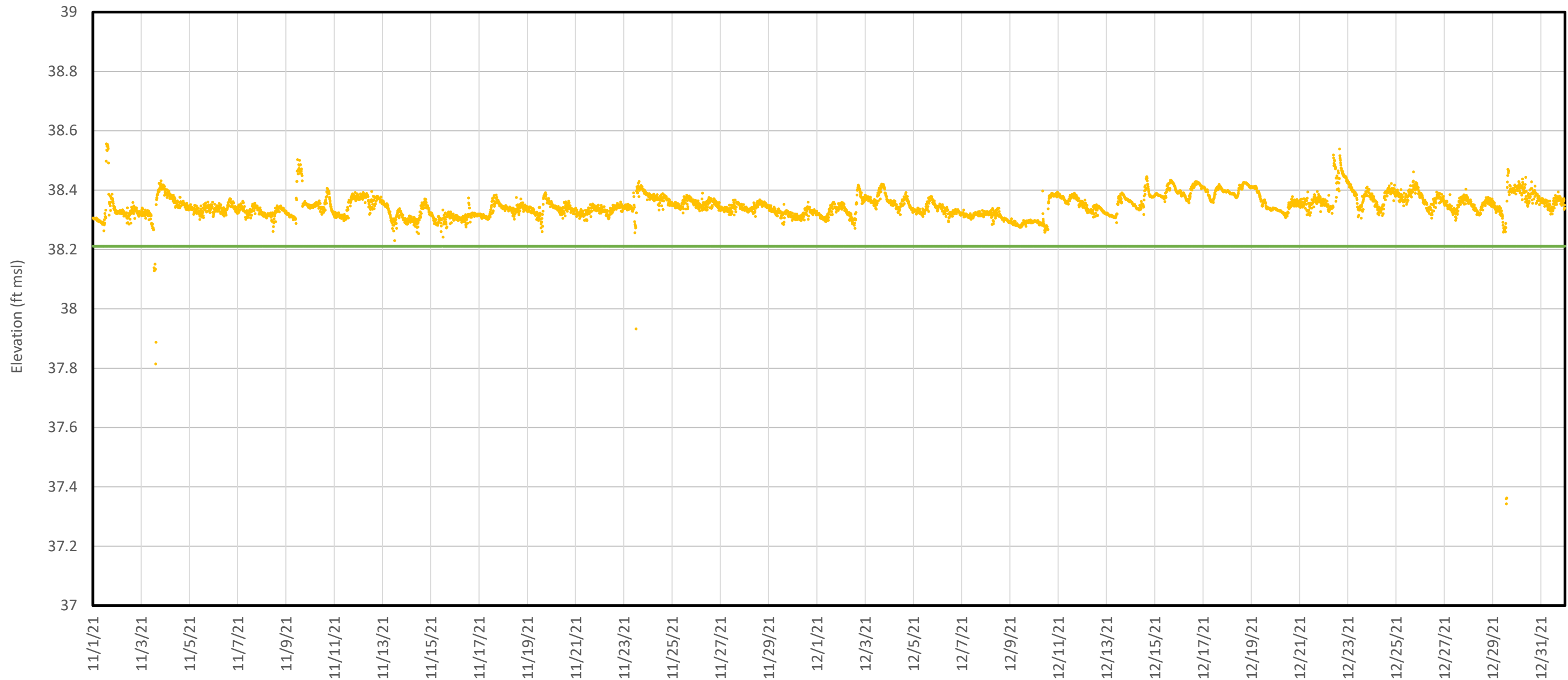
<b>Inlet Chamber Water Elevation - Seep A</b> Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <sup>®</sup> consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022
<b>Figure A3-A</b>	



**Notes:**  
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-A compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).  
 Seep A transducer data from November 8, 10:45 to November 15, 9:30 was not retrieved. Telemetry data collected at the Seep was used for this time period. Section 3 describes gaps in transducer data record.

<b>Inlet Chamber Water Elevation and External Forcings - Seep A</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
 <small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>	<b>Figure</b>
Raleigh, NC	January 2022
<b>A4-A</b>	

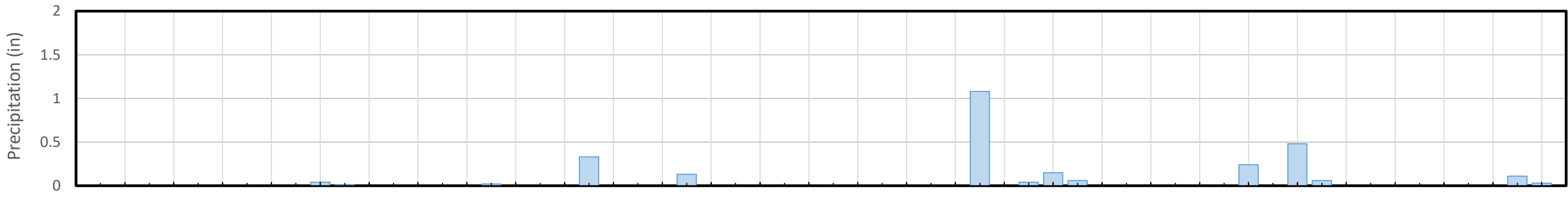
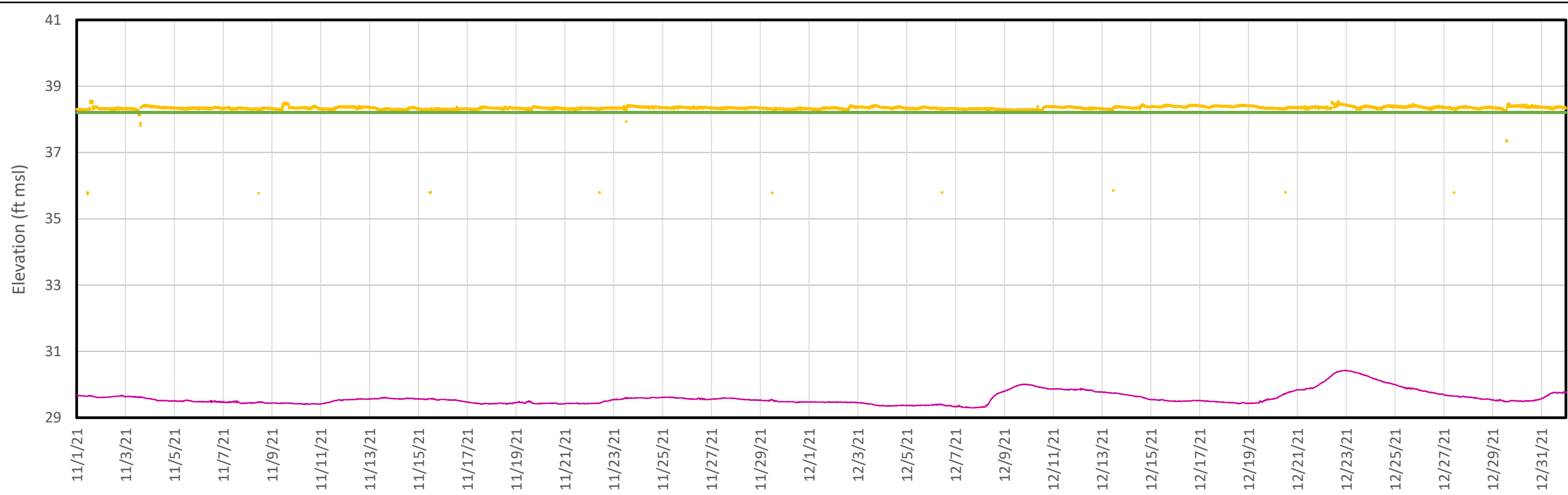




**Legend**  
— Discharge Basin Elevation  
— Weir 3 Elevation

**Notes:**  
 Figure A1-B shows the discharge basin transducer data that was collected during the reporting period.

<b>Discharge Basin Water Elevation - Seep B</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022
<b>Figure A1-B</b>	

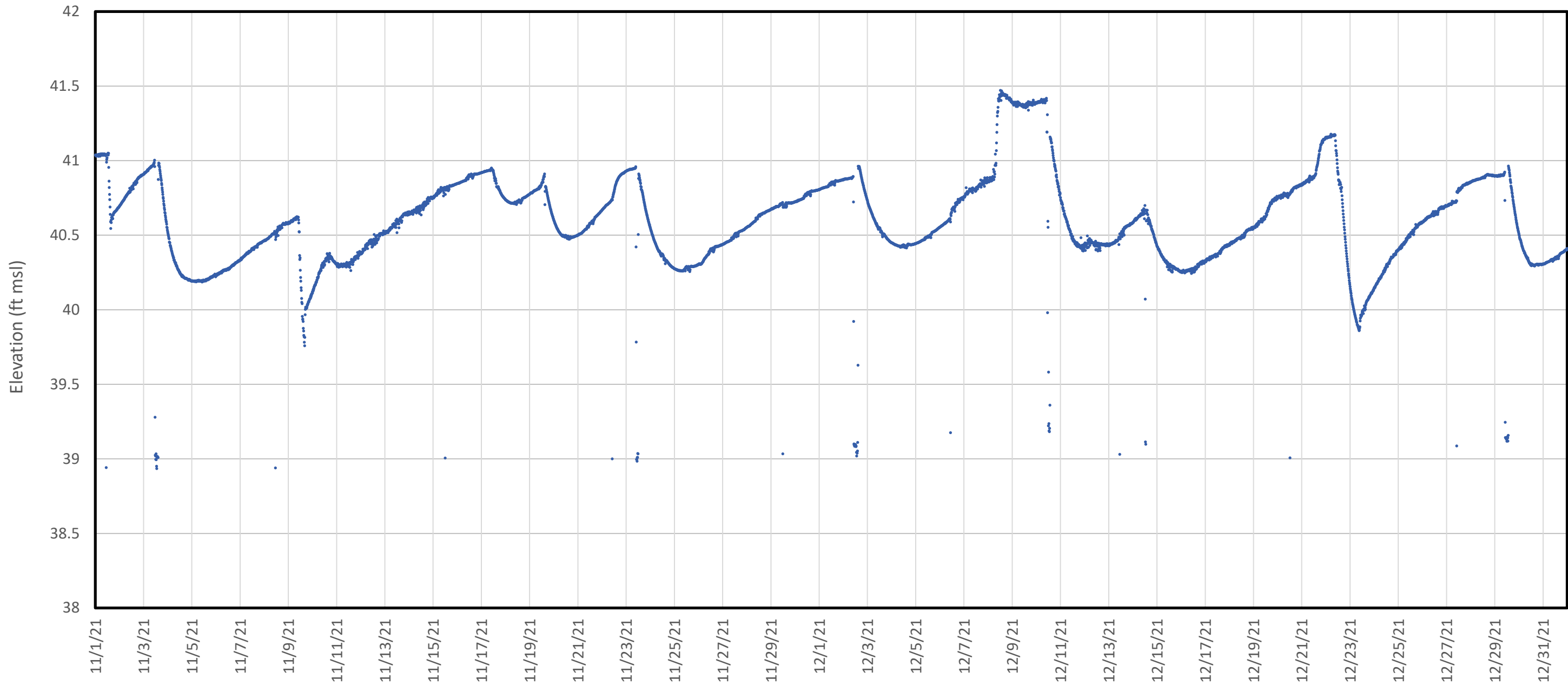


**Legend**

- Discharge Basin Water Elevation
- River Stage
- Weir 3 Elevation
- █ USGS Precipitation (daily totals)

**Notes:**  
 As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-B compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).

<b>Discharge Basin Water Elevation and External Forcings - Seep B</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <small>consultants</small>	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022
<b>Figure A2-B</b>	

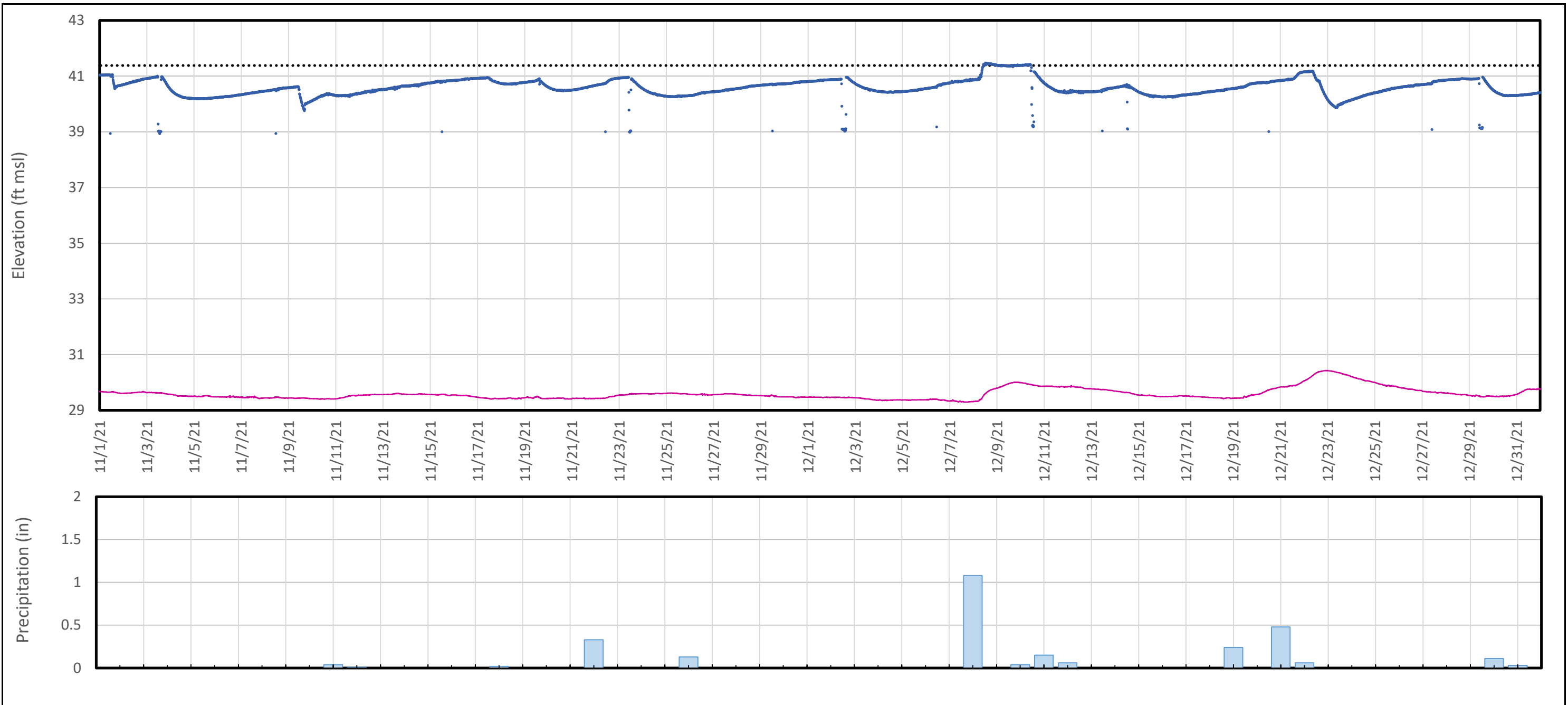


Legend  
 — Inlet Chamber/Impoundment Elevation

Notes:  
 Figure A3-B shows the influent transducer data that was collected during the reporting period.

<b>Inlet Chamber Water Elevation -          Seep B</b> Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022

**Figure  
 A3-B**

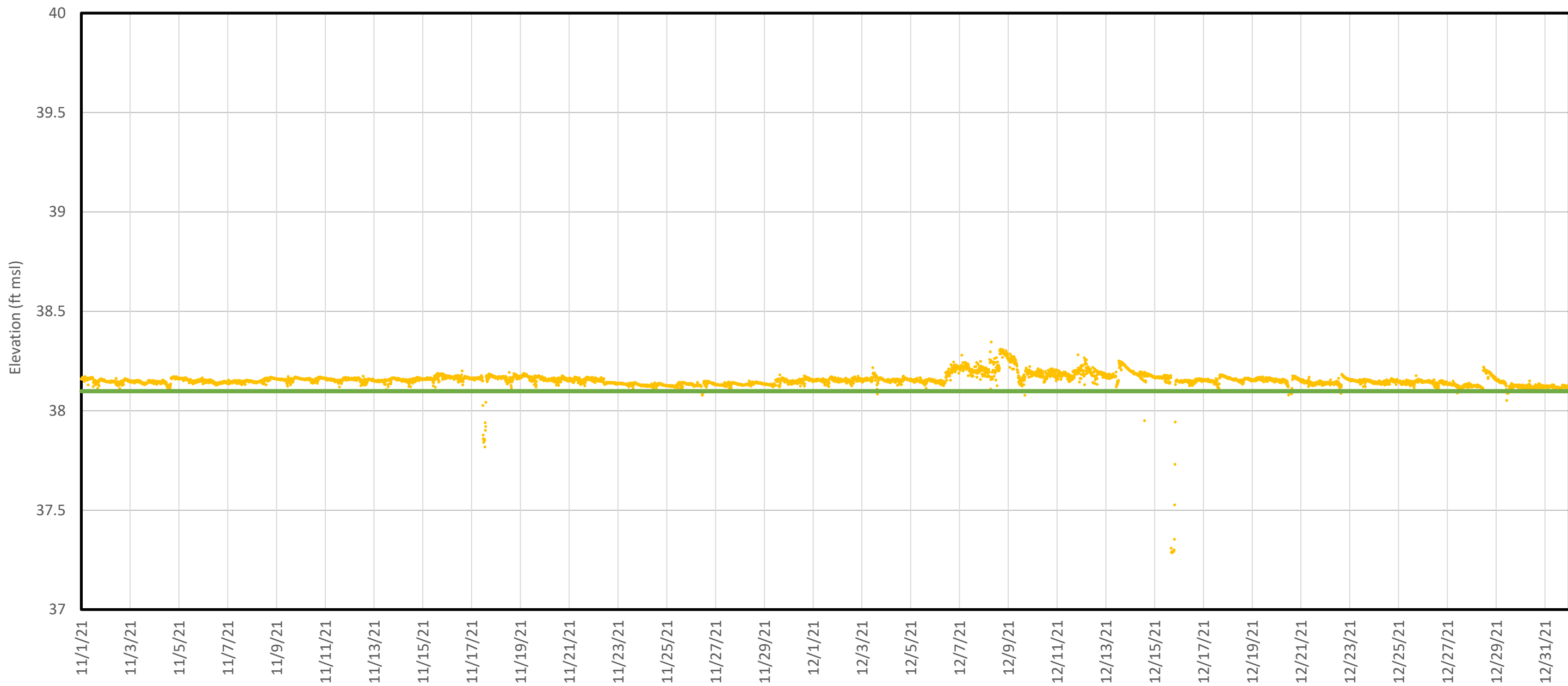


**Legend**

- Inlet Chamber Water Elevation
- River Stage
- ◆◆◆ Bypass Spillway Elevation
- █ USGS Precipitation (daily totals)

**Notes:**  
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-B compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).

<b>Inlet Chamber Water Elevation and External Forcings - Seep B</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec <sup>®</sup> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022
<b>Figure A4-B</b>	



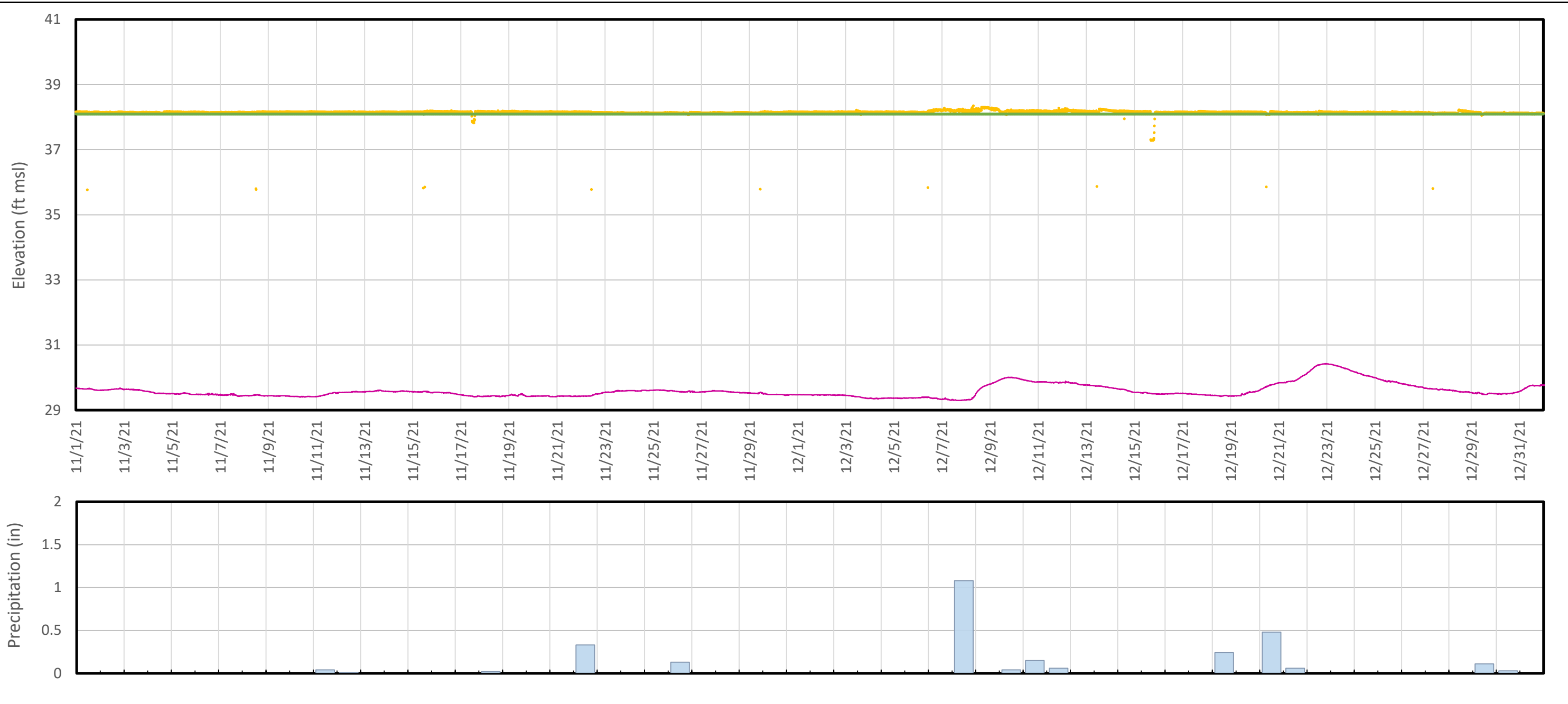
**Legend**

- Discharge Basin Elevation
- Weir 3 Elevation

**Notes:**

Figure A1-C shows the discharge basin transducer data that was collected during the reporting period.

<b>Discharge Basin Water Elevation - Seep C</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C. 3500 and C. 295</small>
Raleigh, NC	January 2022
<b>Figure A1-C</b>	

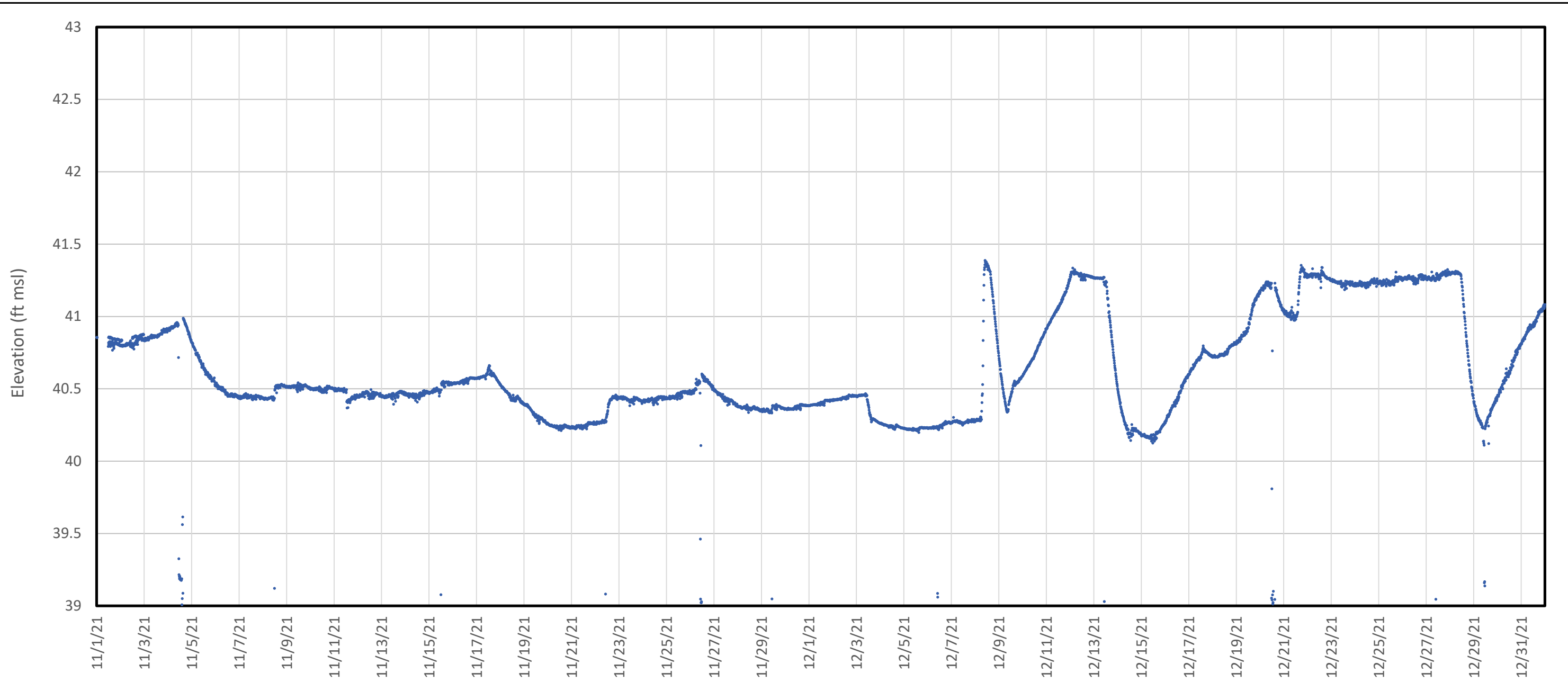


- Legend**
- Discharge Basin Water Elevation
  - River Stage
  - Weir 3 Elevation

■ USGS Precipitation (daily totals)

**Notes:**  
 As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-C compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).

<b>Discharge Basin Water Elevation and External Forcings - Seep C</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C-3500 and C-295</small>
Raleigh, NC	January 2022
<b>Figure A2-C</b>	

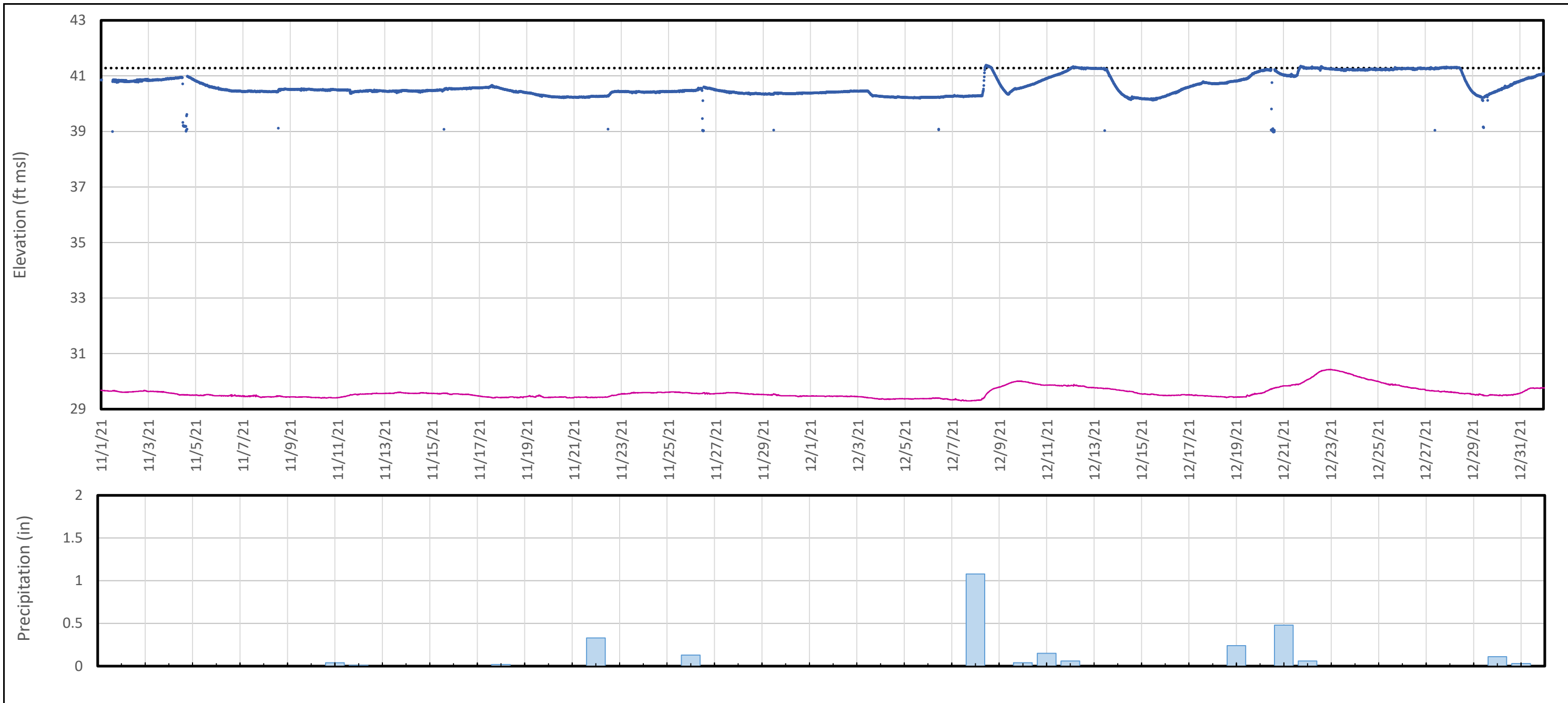


Legend  
 — Inlet Chamber/Impoundment Elevation

Notes:  
 Figure A3-C shows the influent transducer data that was collected during the reporting period.

<b>Inlet Chamber Water Elevation -          Seep C</b> Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022

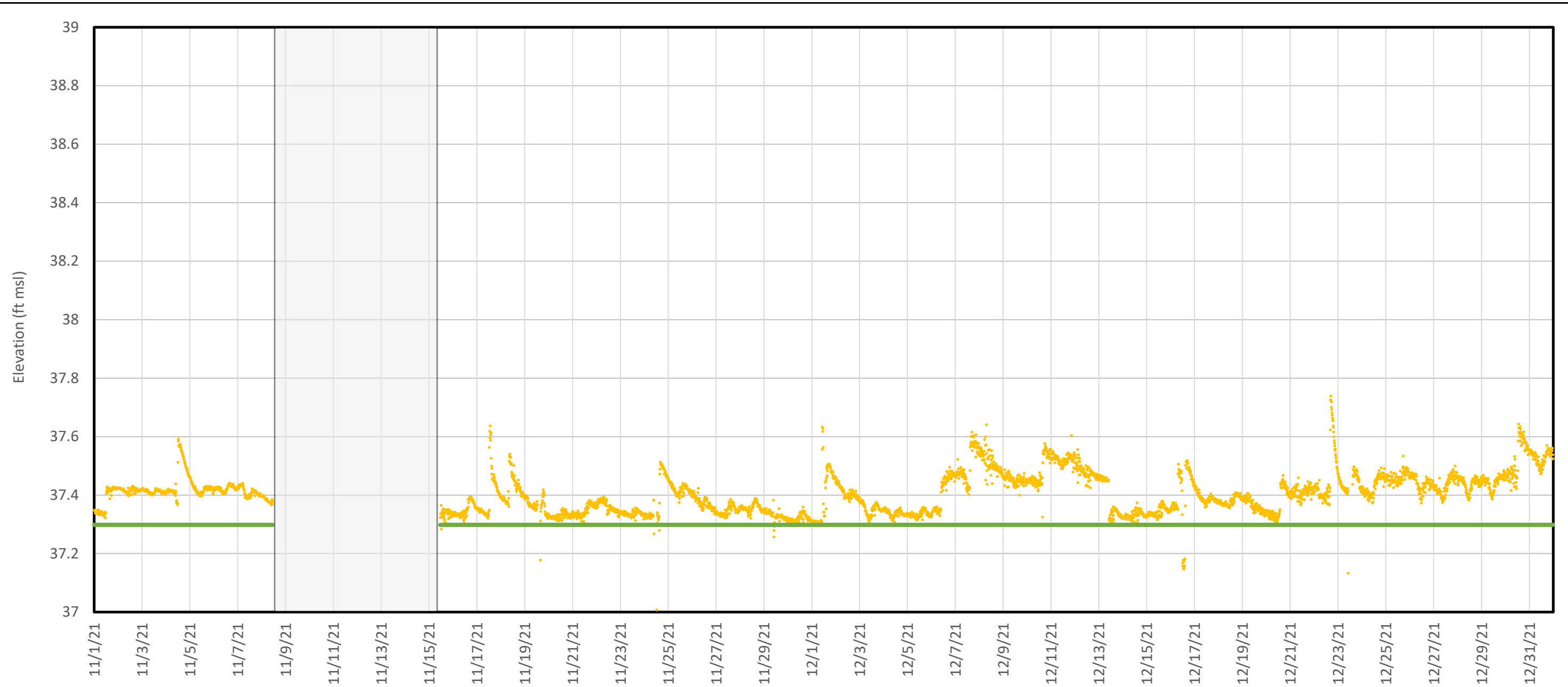
**Figure  
 A3-C**



**Notes:**  
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-C compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).

<b>Inlet Chamber Water Elevation and External Forcings - Seep C</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <small>consultants</small>	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022
<b>Figure A4-C</b>	





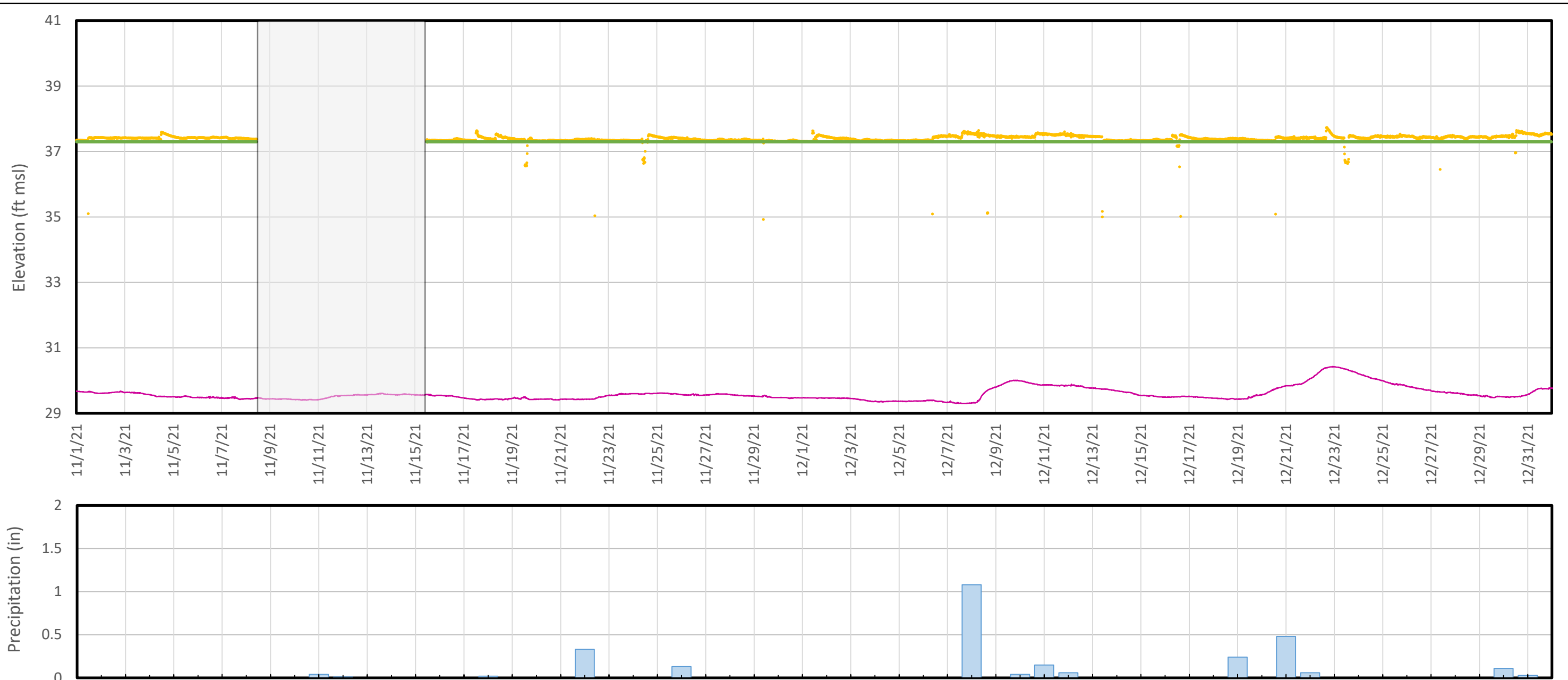
**Legend**

- Discharge Basin Elevation
- Weir 3 Elevation
- Transducer Data Gap

**Notes:**

Figure A1-D shows the discharge basin transducer data that was collected during the reporting period. Transducer data from November 8, 11:20 through November 15, 11:05 was not retrieved. Section 3 describes the gaps in transducer data record.

<b>Discharge Basin Water Elevation - Seep D</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <sup>®</sup> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	January 2022
<b>Figure A1-D</b>	



**Legend**

- Discharge Basin Water Elevation
- River Stage
- Weir 3 Elevation
- █ USGS Precipitation (daily totals)
- Transducer Data Gap

**Notes:**

As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-D compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).

Transducer data from November 8, 11:20 through November 15, 11:05 was not retrieved. Section 3 describes the gaps in transducer data record.

**Discharge Basin Water Elevation and  
External Forcings - Seep D**  
Chemours Fayetteville Works  
Fayetteville, North Carolina

**Geosyntec**  
consultants

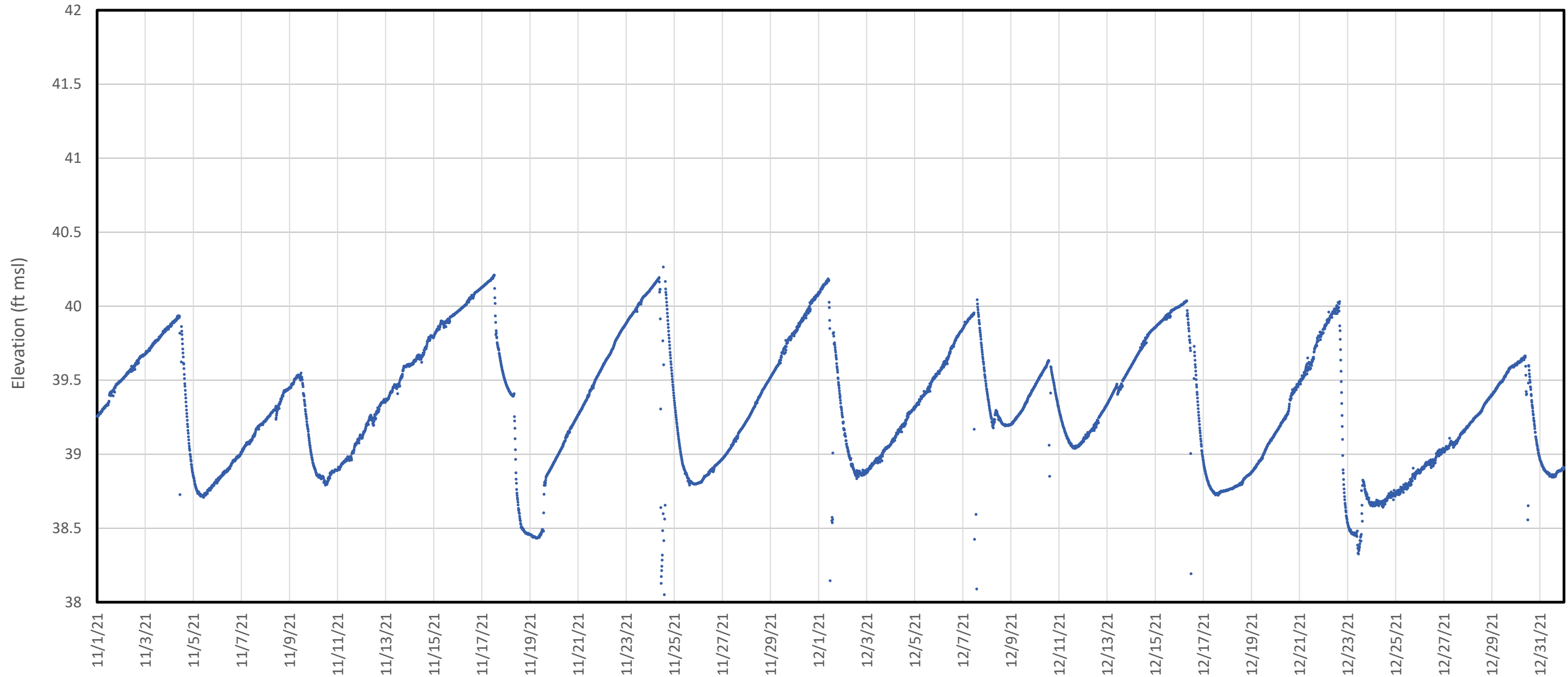
Geosyntec Consultants of NC, P.C.  
NC License No.: C 3500 and C 295

**Figure**

**A2-D**

Raleigh, NC

January 2022



Legend

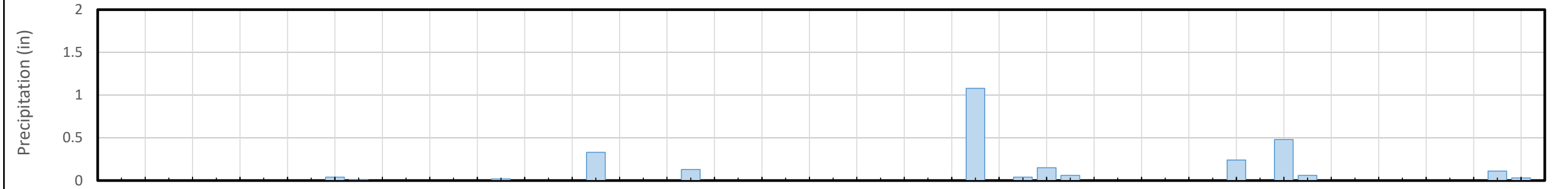
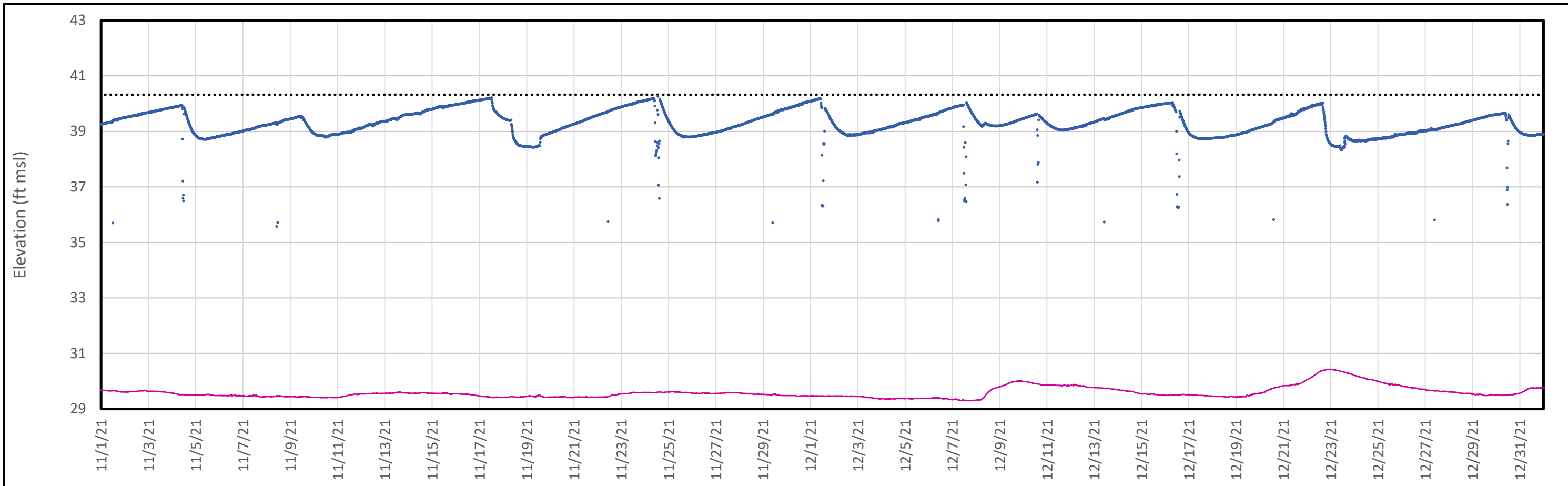
— Inlet Chamber/Impoundment Elevation

Notes:

Figure A3-D shows the influent transducer data that was collected during the reporting period.

<b>Inlet Chamber Water Elevation - Seep D</b> Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <sup>®</sup> consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	January 2022

**Figure  
A3-D**



**Notes:**  
 As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-D compares the available transducer data to precipitation and river stage elevation data available from the USGS William O. Huske Lock and Dam (#02105500).

<b>Inlet Chamber Water Elevation and External Forcings - Seep D</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: G 3500 and C 295
Raleigh, NC	January 2022
<b>Figure A4-D</b>	

**APPENDIX B**  
**Laboratory Analytical Data Review Narrative**  
*(Full lab reports to be uploaded to OneDrive and EQUIS)*

## **ADQM Data Review**

**Site: Chemours Fayetteville**

**Project: Seep Flow Through Cell Sampling 2021 (select lots)**

**Project Reviewer: Michael Aucoin**

## Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
Seep-A-FBLK-111221	320-81789-10	Blank Water	N	11/12/2021	10:00	FB
Seep-C-Effluent-24-110521	320-81789-11	Other liquid	N	11/05/2021	15:00	FS
SEEP-A-Effluent-336-111221-D	320-81789-2	Other liquid	N	11/12/2021	10:00	DUP
SEEP-A-Influent-324-111221	320-81789-3	Other liquid	N	11/12/2021	10:00	FS
SEEP-B-Influent-336-111221	320-81789-4	Other liquid	N	11/12/2021	10:00	FS
SEEP-B-Effluent-336-111221	320-81789-5	Other liquid	N	11/12/2021	10:00	FS
Seep-C-Influent-300-111221	320-81789-6	Other liquid	N	11/12/2021	10:00	FS
Seep-C-Effluent-24-111221	320-81789-7	Other liquid	N	11/12/2021	17:00	FS
Seep-D-Effluent-336-111221	320-81789-8	Other liquid	N	11/12/2021	10:00	FS
Seep-D-Influent-336-111221	320-81789-9	Other liquid	N	11/12/2021	10:00	FS
SEEP-A-Effluent-336-112821	320-82334-1	Water	N	11/28/2021	20:00	FS
SEEP-A-Influent-300-112821	320-82334-2	Water	N	11/28/2021	20:00	FS
SEEP-B-Influent-336-112821	320-82334-3	Water	N	11/28/2021	20:00	FS
SEEP-B-Effluent-312-112821	320-82334-4	Water	N	11/28/2021	20:00	FS
SEEP-C-Influent-300-112721	320-82334-5	Water	N	11/27/2021	08:00	FS
SEEP-C-Effluent-174-112821	320-82334-6	Water	N	11/28/2021	20:00	FS
SEEP-D-Effluent-336-112821	320-82334-7	Water	N	11/28/2021	20:00	FS

SEEP-D- Influent- 336-112821	320-82334- 8	Water	N	11/28/2021	20:00	FS
SEEP-A- FBLK- 112821	320-82334- 9	Blank Water	N	11/28/2021	20:00	FB
SEEP-B- INFLUENT- RAIN-24- 120921	320-82828- 1	Other liquid	N	12/09/2021	07:21	FS
SEEP-B- EFFLUENT- RAIN-19- 120921	320-82828- 2	Other liquid	N	12/09/2021	07:21	FS
SEEP-D- INFLUENT- RAIN-24- 120921	320-82828- 3	Other liquid	N	12/09/2021	07:29	FS
SEEP-D- EFFLUENT- RAIN-24- 120921	320-82828- 4	Other liquid	N	12/09/2021	07:29	FS
SEEP-C- INFLUENT- RAIN-24- 120921	320-82828- 5	Other liquid	N	12/09/2021	07:22	FS
SEEP-C- EFFLUENT- RAIN-24- 120921	320-82828- 6	Other liquid	N	12/09/2021	07:22	FS
SEEP-A- INFLUENT- RAIN-24- 120921	320-82828- 7	Other liquid	N	12/09/2021	07:19	FS
SEEP-A- EFFLUENT- RAIN-19- 120921	320-82828- 8	Other liquid	N	12/09/2021	07:19	FS
SEEP- EBLK- 120921	320-82828- 9	Blank Water	N	12/09/2021	14:00	EB
SEEP-B- INFLUENT- 324-121521	320-83154- 1	Other liquid	N	12/15/2021	00:00	FS
SEEP-B- EFFLUENT- 336-121521	320-83154- 2	Other liquid	N	12/15/2021	00:00	FS
SEEP-D- INFLUENT- 330-121421	320-83154- 3	Other liquid	N	12/14/2021	20:00	FS
SEEP-D- EFFLUENT- 336-121421	320-83154- 4	Other liquid	N	12/14/2021	20:00	FS
SEEP-C- INFLUENT- 336-121521	320-83154- 5	Other liquid	N	12/15/2021	00:00	FS



SEEP-C-EFFLUENT-336-121521	320-83154-6	Other liquid	N	12/15/2021	00:00	FS
SEEP-A-INFLUENT-336-121521	320-83154-7	Other liquid	N	12/15/2021	00:00	FS
SEEP-A-EFFLUENT-336-121521	320-83154-8	Other liquid	N	12/15/2021	00:00	FS
SEEP-FBLK-121521	320-83154-9	Blank Water	N	12/15/2021	14:00	FB
SEEP-B-INFLUENT-210-122921	320-83514-1	Other liquid	N	12/29/2021	18:00	FS
SEEP-B-EFFLUENT-336-123021-D	320-83514-10	Other liquid	N	12/30/2021	00:00	DUP
SEEP-B-EFFLUENT-336-123021	320-83514-2	Other liquid	N	12/30/2021	00:00	FS
SEEP-D-INFLUENT-336-123021	320-83514-3	Other liquid	N	12/30/2021	00:00	FS
SEEP-D-EFFLUENT-336-123021	320-83514-4	Other liquid	N	12/30/2021	00:00	FS
SEEP-C-INFLUENT-336-123021	320-83514-5	Other liquid	N	12/30/2021	00:00	FS
SEEP-C-EFFLUENT-336-123021	320-83514-6	Other liquid	N	12/30/2021	00:00	FS
SEEP-A-INFLUENT-336-123021	320-83514-7	Other liquid	N	12/30/2021	00:00	FS
SEEP-A-EFFLUENT-336-123021	320-83514-8	Other liquid	N	12/30/2021	00:00	FS
SEEP-FBLK-123021	320-83514-9	Blank Water	N	12/30/2021	14:00	FB

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

### Analytical Protocol

<b>Lab Name<sup>1</sup></b>	<b>Lab Method</b>	<b>Parameter Category</b>	<b>Sampling Program</b>
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)	Seep Flow Through Cell Sampling 2021
Eurofins TestAmerica, Sacramento	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)	Seep Flow Through Cell Sampling 2021
LANCASTER LABORATORIES	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)	Seep Flow Through Cell Sampling 2021

<sup>1</sup>Project samples were originally submitted to the Eurofins TestAmerica Sacramento laboratory. This laboratory name changed to Eurofins Environmental Testing Northern California, effective January 1, 2022. Some samples were transferred to Eurofins Lancaster Laboratories for analysis due to temporary instrument issues at the TestAmerica laboratory,

## ADQM Data Review Checklist

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

\* See DVM Narrative Report, Lab Report, or ER # for further details as indicated.

The electronic data submitted for this project was reviewed via the Data Verification Module (DVM) process. The data is 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 is evaluated against the following data usability checks:

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

There are two qualifier fields in EIM:

**Lab Qualifier** is the qualifier assigned by the lab 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 lab qualifiers. As they are lab 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 lab 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 has 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: Seep Flow Through Cell Sampling 2021

Validation Options: LABSTATS

**Validation Reason** Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PMPA	0.034	UG/L	PQL		0.010	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	Hfpo Dimer Acid	0.026	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	Hydrolyzed PSDA	0.033	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PFO2HxA	0.039	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PFO3OA	0.010	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PFO4DA	0.0052	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PFO5DA	0.0022	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PFMOAA	0.11	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	R-EVE	0.71	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PEPA	4.2	UG/L	PQL		2.0	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PS Acid	1.8	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PFO2HxA	23	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PFO3OA	7.7	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PFO4DA	4.1	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PFO5DA	2.2	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PFMOAA	33	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**Validation Reason** Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PMPA	9.8	UG/L	PQL		1.0	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	Hfpo Dimer Acid	21	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	Hydro-EVE Acid	0.87	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	NVHOS, Acid Form	0.92	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PMPA	0.017	UG/L	PQL		0.010	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PFMOAA	0.018	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PFO2HxA	0.0049	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	Hydrolyzed PSDA	26	UG/L	PQL		2.0	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	Hfpo Dimer Acid	31	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	Hydrolyzed PSDA	45	UG/L	PQL		2.0	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PS Acid	1.5	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PFO2HxA	25	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PFO3OA	7.1	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PFO4DA	1.3	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PFO5DA	0.22	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PFMOAA	58	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	Hydro-EVE Acid	1.8	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

**Validation Reason** Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method SOP	Pre-prep	Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	NVHOS, Acid Form	1.9	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PMPA	0.023	UG/L	PQL		0.010	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	Hfpo Dimer Acid	0.047	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PFO2HxA	0.056	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PFO3OA	0.018	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PFO4DA	0.0069	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	R-EVE	0.0033	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PFMOAA	0.13	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	Hydro-EVE Acid	0.0035	UG/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PMPA	5.7	UG/L	PQL		1.0	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	Hfpo Dimer Acid	17	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	Hydrolyzed PSDA	0.92	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PFO2HxA	16	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PFO3OA	5.6	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PFO4DA	1.9	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	R-EVE	0.74	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**Validation Reason** Contamination detected in equipment blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated equipment blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PEPA	2.1	UG/L	PQL		2.0	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PFMOAA	32	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	Hydro-EVE Acid	0.98	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	NVHOS, Acid Form	0.45	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PFO2HxA	0.0025	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PFMOAA	0.013	ug/L	PQL		0.0020	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PMPA	5.0	UG/L	PQL		1.0	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	Hfpo Dimer Acid	12	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	Hydrolyzed PSDA	2.7	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	R-EVE	0.75	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PFO2HxA	17	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PFO3OA	5.3	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PFO4DA	1.6	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	Hydro-EVE Acid	0.89	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	NVHOS, Acid Form	0.67	UG/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PFMOAA	35	ug/L	PQL		0.20	B	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep



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

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	EVE Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PFO5DA	0.20	ug/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PEPA	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PS Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	R-PSDCA	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PFO2HxA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PFMOAA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	PFECA B	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PFO5DA	0.20	ug/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	Perfluoro(2-ethoxyethane)sulfonic Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	Perfluoro(2-ethoxyethane)sulfonic Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	EVE Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	Hydro-PS Acid	0.20	ug/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	Perfluoro(2-ethoxyethane)sulfonic Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PFECA B	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	R-PSDCA	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PEPA	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PS Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	Hfpo Dimer Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-4	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	EVE Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PS Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PFO5DA	0.20	ug/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	R-PSDCA	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PFO5DA	0.20	ug/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	PFECA B	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PFECA B	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	R-PSDCA	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PEPA	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PS Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	EVE Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	Perfluoro(2-ethoxyethane)sulfonic Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	EVE Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	Hydro-PS Acid	2.0	ug/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	Hydro-EVE Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	NVHOS, Acid Form	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PFECA-G	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PMPA	0.010	UG/L	PQL		0.010	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	EVE Acid	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	Hydro-PS Acid	0.020	ug/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	Hydro-EVE Acid	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	Perfluoro(2-ethoxyethane)sulfonic Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PFECA B	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PEPA	20	UG/L	PQL		20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PS Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	R-PSDCA	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep



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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PFO4DA	2.0	ug/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PFO5DA	2.0	ug/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	R-PSDCA	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PFECA B	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	R-PSDCA	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PFO3OA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PFO4DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PFO5DA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	Perfluoro(2-ethoxyethane)sulfonic Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PFECA B	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	R-PSDA	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	R-PSDCA	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	EVE Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	Hydro-PS Acid	2.0	ug/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	Hydro-EVE Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	NVHOS, Acid Form	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PFECA-G	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PEPA	20	UG/L	PQL		20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PS Acid	2.0	UG/L	PQL		2.0	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	Perfluoro(2-ethoxyethane)sulfonic Acid	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PFECA B	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PS Acid	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	R-PSDCA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PFO5DA	0.020	ug/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PFECA-G	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	Perfluoro(2-ethoxyethane)sulfonic Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	Hfpo Dimer Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	Hydrolyzed PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PFECA-G	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-2	Perfluoro(2-ethoxyethane)sulfonic Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	PFECA B	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	Hydro-PS Acid	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	Hydro-EVE Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	NVHOS, Acid Form	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PFECA-G	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	Perfluoro(2-ethoxyethane)sulfonic Acid	0.20	UG/L	PQL		0.20	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	R-PSDCA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	R-EVE	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PEPA	0.020	UG/L	PQL		0.020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PS Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	PFECA B	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-120921	12/09/2021	320-82828-8	R-PSDA	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**Validation Reason**

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-FBLK-121521	12/15/2021	320-83154-9	Hfpo Dimer Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	Hfpo Dimer Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	Hfpo Dimer Acid	0.0020	UG/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**Validation Reason** Associated LCS and/or LCSD 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
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	R-EVE	0.062	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	R-PSDA	0.035	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	Hydrolyzed PSDA	0.82	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	R-EVE	2.2	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	Hydrolyzed PSDA	38	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	R-EVE	0.0035	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	R-PSDA	0.0024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	Hydrolyzed PSDA	0.057	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	R-EVE	3.9	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	R-PSDA	3.4	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	Hydrolyzed PSDA	69	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	R-EVE	0.99	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	R-PSDA	0.79	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	Hydrolyzed PSDA	1.1	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	R-EVE	0.97	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	R-PSDA	1.1	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville

Sampling Program: Seep Flow Through Cell Sampling 2021

Validation Options: LABSTATS

**Validation Reason**

Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	Hydrolyzed PSDA	2.4	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**Validation Reason**

Quality review criteria exceeded between the REP (laboratory replicate) 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
SEEP-B-EFFLUENT-336-123021	12/30/2021	320-83514-2	PFO2HxA	0.0048	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-123021	12/30/2021	320-83514-2	PFO2HxA	0.0036	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-123021	12/30/2021	320-83514-2	PFMOAA	0.021	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-123021	12/30/2021	320-83514-2	PFMOAA	0.018	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-123021	12/30/2021	320-83514-2	Hfpo Dimer Acid (trial)	0.0038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep



**Validation Reason**

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
SEEP-A-Effluent-336-111221-D	11/12/2021	320-81789-2	Hydrolyzed PSDA	0.020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-324-111221	11/12/2021	320-81789-3	R-PSDA	2.3	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-324-111221	11/12/2021	320-81789-3	Hydrolyzed PSDA	25	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-324-111221	11/12/2021	320-81789-3	R-EVE	1.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-336-111221	11/12/2021	320-81789-4	R-PSDA	3.4	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-336-111221	11/12/2021	320-81789-4	Hydrolyzed PSDA	25	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-336-111221	11/12/2021	320-81789-4	R-EVE	2.0	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
Seep-C-Influent-300-111221	11/12/2021	320-81789-6	R-PSDA	0.66	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
Seep-C-Influent-300-111221	11/12/2021	320-81789-6	Hydrolyzed PSDA	0.74	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
Seep-C-Influent-300-111221	11/12/2021	320-81789-6	R-EVE	0.67	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
Seep-D-Influent-336-111221	11/12/2021	320-81789-9	R-PSDA	0.75	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
Seep-D-Influent-336-111221	11/12/2021	320-81789-9	Hydrolyzed PSDA	1.5	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
Seep-D-Influent-336-111221	11/12/2021	320-81789-9	R-EVE	0.74	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Effluent-336-112821	11/28/2021	320-82334-1	Hydrolyzed PSDA	0.0066	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-300-112821	11/28/2021	320-82334-2	R-PSDA	2.4	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-300-112821	11/28/2021	320-82334-2	Hydrolyzed PSDA	27	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Validation Reason

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
SEEP-A-Influent-300-112821	11/28/2021	320-82334-2	R-EVE	1.2	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-336-112821	11/28/2021	320-82334-3	R-PSDA	3.2	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-336-112821	11/28/2021	320-82334-3	Hydrolyzed PSDA	28	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-336-112821	11/28/2021	320-82334-3	R-EVE	2.0	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Influent-300-112721	11/27/2021	320-82334-5	R-PSDA	0.80	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Influent-300-112721	11/27/2021	320-82334-5	Hydrolyzed PSDA	1.1	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Influent-300-112721	11/27/2021	320-82334-5	R-EVE	0.84	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-336-112821	11/28/2021	320-82334-8	R-PSDA	0.76	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-336-112821	11/28/2021	320-82334-8	Hydrolyzed PSDA	1.5	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-336-112821	11/28/2021	320-82334-8	R-EVE	0.89	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-210-122921	12/29/2021	320-83514-1	R-PSDA	3.7	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-210-122921	12/29/2021	320-83514-1	Hydrolyzed PSDA	28	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-210-122921	12/29/2021	320-83514-1	R-EVE	2.0	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-123021	12/30/2021	320-83514-7	R-PSDA	2.6	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-123021	12/30/2021	320-83514-7	Hydrolyzed PSDA	28	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-123021	12/30/2021	320-83514-7	R-EVE	1.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-123021	12/30/2021	320-83514-8	Hydrolyzed PSDA	0.0025	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

**Validation Reason**

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		Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
	Sampled	Lab Sample ID										
SEEP-C-EFFLUENT-336-123021	12/30/2021	320-83514-6	R-PSDA	0.0073	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-123021	12/30/2021	320-83514-5	R-PSDA	0.69	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-123021	12/30/2021	320-83514-5	R-PSDA	0.66	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-123021	12/30/2021	320-83514-5	Hydrolyzed PSDA	0.71	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-123021	12/30/2021	320-83514-5	Hydrolyzed PSDA	0.73	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-123021	12/30/2021	320-83514-5	R-EVE	0.62	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-123021	12/30/2021	320-83514-5	R-EVE	0.63	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-123021	12/30/2021	320-83514-4	R-PSDA	0.0041	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-123021	12/30/2021	320-83514-4	Hydrolyzed PSDA	0.0034	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-123021	12/30/2021	320-83514-4	R-EVE	0.0020	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-123021	12/30/2021	320-83514-3	R-PSDA	0.72	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-123021	12/30/2021	320-83514-3	Hydrolyzed PSDA	1.6	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-123021	12/30/2021	320-83514-3	R-EVE	0.68	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	R-PSDA	1.5	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	EVE Acid	0.27	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-7	Hydro-PS Acid	0.86	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PMPA	27	UG/L	PQL		1.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PFMOAA	0.85	ug/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PEPA	0.26	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PFO2HxA	0.39	ug/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PFO3OA	0.12	ug/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PFO4DA	0.020	ug/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	PMPA	0.44	UG/L	PQL		0.10	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PFO2HxA	25	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PFO3OA	10	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PFO4DA	5.9	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PFO5DA	2.9	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PFMOAA	41	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	PMPA	10	UG/L	PQL		10	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PFMOAA	0.19	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PFO2HxA	0.043	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PFO3OA	0.0080	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PFO4DA	0.0029	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	R-PSDA	4.1	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	PMPA	0.055	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	R-EVE	3.3	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PFMOAA	81	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PFO2HxA	32	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PFO3OA	10	ug/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	PMPA	26	UG/L	PQL		10	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	NVHOS, Acid Form	0.031	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PFO2HxA	0.0030	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	EVE Acid	1.3	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	Hydro-PS Acid	0.80	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-121521	12/15/2021	320-83154-6	PFMOAA	0.022	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-1	PEPA	17	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-24-120921	12/09/2021	320-82828-6	R-PSDA	0.0029	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date	Sampled Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PMPA	4.5	UG/L	PQL		1.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	Hydro-PS Acid	0.26	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	Hydro-EVE Acid	0.77	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	NVHOS, Acid Form	0.32	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PFO2HxA	13	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PFO3OA	4.4	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PFO4DA	1.7	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	R-PSDA	0.58	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	PFMOAA	26	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-5	Hydro-PS Acid	0.33	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PFO2HxA	0.0020	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-121421	12/14/2021	320-83154-4	PFMOAA	0.012	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	Hydro-EVE Acid	0.0042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	NVHOS, Acid Form	0.0043	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	R-EVE	0.0026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PEPA	0.023	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PS Acid	0.0038	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PFO2HxA	0.16	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PFO3OA	0.052	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PFO4DA	0.020	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PFO5DA	0.0078	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PFMOAA	0.28	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PFO2HxA	12	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PFO3OA	4.6	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PFO4DA	1.4	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PMPA	3.7	UG/L	PQL		1.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	Hydro-EVE Acid	0.74	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	NVHOS, Acid Form	0.38	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	PFMOAA	27	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	R-PSDA	0.88	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	PMPA	0.043	UG/L	PQL		0.010	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	Hfpo Dimer Acid	0.076	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-EBLK-120921	12/09/2021	320-82828-9	Hydrolyzed PSDA	0.064	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-120921	12/09/2021	320-82828-3	Hydro-PS Acid	0.24	ug/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

**Validation Reason** Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control 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
SEEP-B-EFFLUENT-336-121521	12/15/2021	320-83154-2	Hfpo Dimer Acid	0.31	UG/L	PQL		0.020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-121521	12/15/2021	320-83154-7	Hfpo Dimer Acid	15	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-121521	12/15/2021	320-83154-8	Hfpo Dimer Acid	0.016	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-324-121521	12/15/2021	320-83154-1	Hfpo Dimer Acid	20	UG/L	PQL		2.0	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-121521	12/15/2021	320-83154-5	Hfpo Dimer Acid	10	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-330-121421	12/14/2021	320-83154-3	Hfpo Dimer Acid	8.1	UG/L	PQL		0.20	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep