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# INTERIM SEEP REMEDIATION OPERATION AND MAINTENANCE REPORT #5

## Chemours Fayetteville Works

*Prepared for*

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## EXECUTIVE SUMMARY

This Operations and Maintenance Report #5 (O&M Report #5) has been prepared to document the operations, maintenance, and performance of the flow-through cells at Seeps A, B, C, and D from September 1 through October 31, 2021. The median flow rate processed by the Seep A, B, and C, and D FTCs was 81, 113, 53, and 84 gallons per minute (gpm), respectively. As documented in the previous O&M Reports #1 through #4, 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 32,100,000 gallons of seep flow. Composite samples from performance monitoring indicated the PFAS removal efficiency of the captured base flow ranged from approximately 89.0 to >99.9%, and the FTCs are estimated to have prevented approximately 59.7 pounds (lbs) of PFAS from being discharged to the Cape Fear River in the reporting period, and 180.7 lbs of PFAS over the lifetime of the systems to date.

## TABLE OF CONTENTS

EXECUTIVE SUMMARY .....	1
1. Introduction.....	4
2. Inspections, Operation, and Maintenance.....	5
2.1 Inspections.....	5
2.2 Duty Cycling .....	5
2.3 FTC Management During River Flooding .....	6
2.4 Material Changeouts.....	6
2.5 Issues Encountered and Resolutions .....	6
3. Data Collected .....	8
3.1 Pressure Transducers .....	8
3.2 Rainfall and River Stage.....	8
3.3 Operational and Treatment Performance Monitoring .....	8
3.3.1 Performance Monitoring .....	9
3.3.2 Breakthrough Monitoring.....	9
3.3.3 Water Quality Monitoring .....	9
3.3.4 Rain Event Monitoring.....	9
3.4 Deviations.....	10
3.4.1 Performance Monitoring and Wet Weather Sampling Deviations.....	10
4. Results.....	11
4.1 System Flowrates and Operational Periods.....	11
4.1.1 System Flowrate .....	11
4.1.2 Bypass Flow .....	12
4.2 Performance Monitoring Analytical Results .....	12
4.3 System Effectiveness.....	13
4.4 Wet Weather Sampling Results.....	13
4.5 River Elevation and Precipitation.....	14
4.6 Water Quality .....	14
4.7 GAC Usage.....	15
5. Summary.....	16
6. References.....	17

## **LIST OF TABLES**

Table 1a-d	Summary of Operations and Maintenance Activities – Seeps A-D
Table 2a-d	Sampling Summary – Seeps A-D
Table 3a-d	Summary of Performance Monitoring Analytical Results – Seeps A-D
Table 4a-d	Summary of Wet Weather Analytical Results – Seeps A-D
Table 5	Cape Fear River Elevation and Precipitation Statistics
Table 6a-d	Water Quality Data – Seeps A-D

## **LIST OF FIGURES**

Figure 1	River Level and Seep C FTC As-Built Elevations
Figure 2a-d	Measured Discharge Flowrate – Seeps A-D
Figure 3a-d	Influent Water Elevation and Bypass Flow – Seeps A-D
Figure 4	Seep B Turbidity Logging and Precipitation (September - October 2021)

## **LIST OF APPENDICES**

Appendix A	Transducer Data Reduction
Appendix B	Laboratory Analytical Data Review Narrative

## 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, PC (Geosyntec) has prepared this Interim Seep Remediation Operation and Maintenance (O&M) Report #5 (“O&M Report #5”) 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 #5 has been prepared for the operational period of September 1 through October 31, 2021. The next O&M Report (#6) will cover the bimonthly period of November 1 through December 31, 2021.

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 #5, 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 (September 1 through October 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 inch 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 September 1 through October 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	59	2	61
B	6	55	61
C	42	19	61
D	53	8	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 ft 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 (September 1 through October 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)
B	FB1	September 9, 2021	94/90
C	FB1	October 1, 2021	95/69
C	FB2	October 18, 2021	84/20
D	FB1	October 26, 2021	125/123.5

### 2.5 Issues Encountered and Resolutions

Observations from routine inspections noted fine-grained sediment with the addition of algae accumulating on the surface of the filter beds, especially in the lead filter bed. The table below summarizes the average turbidity, in nephelometric turbidity units (NTU), prior to construction of each FTC (Geosyntec, 2020) and the average turbidity following startup of each system through this reporting period (September 1 through October 31, 2021):



<b>Seep</b>	<b>Average Turbidity Prior to Construction (NTU)</b>	<b>Average Turbidity Since Startup (NTU)</b>	<b>Average Turbidity During Storm Events (NTU)*</b>
A	13	54	352
B	11	24	16
C	28	58	52
D	5	59	18

*\*The rain event from September 22, 2021 was selected as a representative storm for all four seeps.*

As documented in O&M Reports #1, #2, #3, and #4, 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; and
- Installation of tarps to cover all FTC chambers, most notably the filter beds, to reduce sunlight reaching the geocomposite layer and minimize algae growth.

In addition, since O&M Report #4, GreenClean®, a commercial biocide, has been applied to the inlet basins and lead filter bed at Seeps B and D to reduce algae and/or bacterial growth.

### **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 Influent Chamber (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. During this reporting period, a disparity was observed between the USGS W.O. Huske Dam precipitation and local rain gauges at Seeps A-D, in which the Huske rain gauge consistently recorded less rainfall than local gauges at the FTCs, in some instances by a significant margin (e.g., on October 26, the USGS rain gauge recorded no precipitation, but both the Seep A and Seep C rain gauges recorded 0.53 inches). In future reports, both data sets will be presented. At Seeps A and C, local rain gauge telemetry data was available beginning October 10 and is included in this report. Seep B and D telemetry equipment is expected to be installed in November 2021 and will be presented in O&M Report #6.

#### **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, C, and D, and five performance monitoring samples each were collected for Seep B (Table 2). 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. Nine breakthrough monitoring samples each were collected from Seeps A and D during this reporting period, ten breakthrough monitoring samples were collected from Seep B, and seven breakthrough monitoring samples were collected from Seep C during this reporting period (35 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 sample 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 transducer downloads was unsuccessful during this reporting period:

- (1) The effluent transducer data at Seep C was inadvertently overwritten during retrieval on the November 1 O&M field event (i.e., data from October 25 through November 1 was lost on the transducer itself). However, telemetry equipment was installed at Seep C on October 10, and was able to retrieve the majority of data during this period. A small portion (as shown in Figure 2c) was not retrieved likely due to intermittent satellite transmission issues.

#### 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.

- A GAC changeout was completed on September 9 at Seep B, interrupting the two-week composite sample that began on September 1. A second composite sample was collected from September 9 through 23, following the GAC changeout. A third composite sample for the month of September was collected from September 24 through October 1 to cover the remainder of the month.

Wet weather samples were collected at Seeps A-D per the Interim Seep Remediation Plan (Geosyntec, 2020) with no deviations noted.

## 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:

Reporting Period Metric	Seep A	Seep B	Seep C	Seep D	Total
Duration	61 days ( <i>September 1 - October 31, 2021</i> )				
Rainfall, Actual (in)	4.20 ( <i>September 1 - October 31, 2021</i> )				
Rainfall, Historical Average (in)	7.53 ( <i>September 1 - October 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)	81	113	53	84	366
Seep Volume Treated (gallons)	8,000,000	10,400,000	4,800,000	8,900,000	32,100,000
PFAS Removed (lbs)	15.9	29.3	5.3	9.2	59.7
GAC Replaced (lbs)	0	18,000	12,000	18,000	48,000

### 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	116	113	53	84
95 <sup>th</sup> percentile Flow Rate (gpm) during the Reporting Period	261	236	101	231
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 8,000,000 gallons, 10,400,000 gallons, 4,800,000 gallons, and 8,900,000 gallons of water (32,100,000 gallons total) were treated by the Seeps A, B, C, and D FTCs, respectively, from September 1 through October 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 and C than at Seeps B and D. Bypass flow at Seeps A and C was caused by several days of heavy rainfall, including September 21 (1.6 inches), October 4 (1.02 inches), and October 26 (0.53 inches). The total rainfall received in September was approximately 2.68 inches, which is approximately half of the historical September average (4.30 inches). The total rainfall in October was approximately 2.61 inches, approximately two-thirds the historical October average (3.24 inches). Seeps B and D FTCs 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. A total of 34 composite samples from Seeps A-D were submitted for analytical results.

Analytical Result – Performance Monitoring	Seep A	Seep B	Seep C	Seep D
Average Influent Total Table 3+ PFAS, 17 compounds (ng/L)	207,000	302,000	133,000	120,000

Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	55	182	5,895	3
Average Removal Efficiency (%)	>99.9	99.9	96.8	>99.9

The Seep C result (96.8%) is due to the composite sample collected over the second half of September (89.0%, as shown in Table 3c). This exceeds the requirements of the CO Addendum (80%) but is less than typical. The O&M staff had operated Seep C in parallel operation mode beginning on September 24, with both filter beds processing as Lead and no beds processing as Lag, to respond to high flow loads from the September 21-22 rain events and develop more freeboard below the spillway. A breakthrough sample was collected on September 27; results were available on September 30 and indicated that there was unexpected early breakthrough of PFAS in FB1. The suspect bed was replaced on October 1 and the operational mode was returned to normal (FB1 Lag/FB2 Lead). Subsequent breakthrough sampling showed a return to normal removal efficiency.

### 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 98.9%. The system effectiveness for the individual Seeps is presented below:

System Effectiveness	Seep A		Seep B		Seep C		Seep D		Overall Average
	Sep	Oct	Sep	Oct	Sep	Oct	Sep	Oct	
%	99.97	99.99	99.90	99.92	93.03	98.75	100	>99.99	98.94

### 4.4 Wet Weather Sampling Results

Wet weather monitoring samples (September 22 or 23, and October 10 or 26) were collected at Seeps A-D during the reporting period (Table 2), and their analytical results are shown in Table 4

and summarized below. 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).

<b>Analytical Result – Wet Weather 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)	156,000	205,600	98,000	87,600
Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	30	137	604	3
Average Removal Efficiency (%)	>99.9	99.9	99.3	>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, except above the discharge pipe at Seep A for approximately 2 days. The changes in elevation of the Cape Fear River during the reporting period (September 1 through October 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 A, B, and C. In Seep D, the DO level increased on a median basis by 1.1 mg/L. The minimum average effluent DO across all four FTCs was 5.6 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 influent was within 5% of the median temperature of the effluent 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  $-27.5$  and  $10.2$  uS/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 0.4 and 1.2 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 3.5 to 47.2 NTU. The FTCs significantly decreased the turbidity of the influent water. The decrease in median turbidity across all four Seeps was at least 82%. The TSS was observed to be 0.0 mg/L for all influent and effluent monitoring locations.

#### 4.7 GAC Usage

At Seep B, 18,000 lbs of GAC was replaced in FB1. At Seep C, 6,000 lbs of GAC was replaced in FB1 and 6,000 lbs of GAC was replaced in FB2. At Seep D, 18,000 lbs of GAC were replaced at FB1. No GAC was replaced at Seep A during the reporting period.

## 5. SUMMARY

The following summarizes the FTC's performance after the completion of the latest reporting period (September 1 through October 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 PFAS removal efficiency of captured baseflow at Seeps A-D ranges from 96.8 to >99.9%. To date, the A-D FTCs have prevented approximately 180.7 lbs of PFAS from being discharged to the Cape Fear River.

The next reporting period (November 1 through December 31, 2021) will be detailed in O&M Report #6, to be submitted no later than January 31, 2021. Additionally, the overall scope of O&M activities will continue to be evaluated, and a modification may potentially be proposed after six months of operation at all four systems, as permitted under Paragraph 2(a)(iv).

## 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.

# TABLES

**Table 1a**  
**Summary of Operations and Maintenance Activities - Seep A**  
**Reporting Period 5 (September - October 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			
09/02/2021	128	No				Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	4 inches of freeboard pre-service.
09/03/2021	129	No				Lead	Lag	Lead	Lag		Adjusted valves to maintain FB1 in lead and FB2 in lag.	Reservoir basin drawdown. Greater than 12 inch of freeboard.
09/07/2021	133	No	X			Lead	Lag	Lead	Lag	X	N/A	GAC accumulation observed in effluent stilling basin. Concrete spalling on influent and effluent side of the Seep. 18 inches of freeboard. Effluent datalogger pipe connector broke and dropped datalogger and chain to bottom of pipe.
09/09/2021	135	No				Lead	Lag	Lead	Lag		N/A	Post-storm inspection. Rain gauge reading of 0.6 inches. 10 inches of freeboard.
09/10/2021	136	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, and placed new fabric in FB1. Flushed inlet basin. Removed GAC from effluent stilling basin. Recovered and repaired datalogger.	Concrete spalling on influent and effluent sides. Rain gauge reading of 1/16 inches. 12 inches of freeboard.
09/13/2021	139	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
09/16/2021	142	--		X		Lead	Lag	Lead	Lag		N/A	N/A
09/17/2021	143	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, and replaced fabric in FB1. Flushed influent stilling basin. Dewatered FB1 and influent stilling basin to conduct maintenance.	N/A
09/20/2021	146	No	X			Lead	Lag	Lead	Lag	X	N/A	18 inches of freeboard.
09/22/2021	148	No			X	Lead	Lag	Lead	Lag		NA	Bypassed during the night. Rain gauge reading of 1 and 7/8 inches.
09/23/2021	149	Yes				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 2 and 1/16 inches.
09/24/2021	150	Yes				Lead	Lag	Lead	Lag		Wet vacuumed FB1.	Water level in reservoir basin was high.
09/27/2021	153	Yes	X			Lead	Lag	Closed	Lead	X	Started to skim and hard rake FB1. Left FB2 as sole processor during maintenance of FB1.	N/A
09/28/2021	154	No				Closed	Lead	Lead	Lag		Skimmed, fluffed, and replaced fabric in FB1. FB2 was sole processor to dewater FB1 for maintenance. Flushed influent.	13 inches of freeboard.
10/04/2021	160	No	X	X		Lead	Lag	Lead	Lag	X	N/A	N/A
10/05/2021	161	Yes				Lead	Lag	Lead	Lag		Vacuumed FB2. W3 was raised 0.5 inches.	Rain gauge reading of 0.9 inches.
10/08/2021	164	No				Lead	Lag	Lead	Lag		Wet vacuumed FB1. FB2 utilized as lead for 4 hours.	Stormwater from rain events filled the reservoir and kept the water levels high in the influent basin.
10/11/2021	167	Yes	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 0.6 inches.
10/12/2021	168	Yes				Lead	Lag	Lead	Lag		Skimmed, fluffed, and replaced fabric in FB1. Flushed inlet stilling basin.	Stopped bypassing after service.
10/14/2021	170	No				Lead	Lag	Lead	Lag		Vacuumed FB2.	7.5 inches of freeboard.
10/15/2021	171	No		X		Lead	Lag	Lead	Lag		N/A	7 inches of freeboard.
10/18/2021	174	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
10/19/2021	175	Yes				Lead	Lag	Lead	Lag		Vacuumed and fluffed FB1 and FB2. Dewatered beds to conduct maintenance.	N/A
10/22/2021	178	--	X			Lead	Lag	Lead	Lag		Flushed inlet basin. Vacuumed, fluffed, and replaced fabric at FB1.	N/A
10/25/2021	181	No	X			Lead	Lag	Lead	Lag	X	N/A	16 inches of freeboard. Spillway wet from last week.
10/26/2021	182	No				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 0.5 inches. 7 inches of freeboard.
10/28/2021	184	No				Lead	Lag	Lead	Lag		Wet vacuumed top of fabric at FB1.	5.5 inches of freeboard.
10/29/2021	185	Yes		X		Lead	Lag	Lead	Lag		Wet vacuumed FB1.	Rain gauge reading of 0.6 inches.

**Notes**  
 FB1 - Filter Bed 1  
 FB2 - Filter Bed 2  
 FTC - flow through cell  
 GAC - granulated activated carbon  
 ISCO - Teledyne ISCO Autosampler  
 mm - millimeters  
 N/A - Not Applicable

**Table 1b**  
**Summary of Operations and Maintenance Activities - Seep B**  
**Reporting Period 5 (September - October 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			
09/02/2021	87	--				Lead	Lag	Parallel	Parallel		Valves switched to parallel.	N/A
09/03/2021	88	No				Parallel	Parallel	Lead	Lag		Valves switched to FB1 lead and FB2 lag.	N/A
09/07/2021	92	No	X			Lead	Lag	Lag	Lead	X	N/A	Concrete sides are settling and forming gaps. Secondary bypass on NE end of Seep.
09/09/2021	94	No		X		Changeout	Lead	Lag	Lead		Installed GAC in FB1 and wet vacuumed FB2.	N/A
09/13/2021	98	No	X			Lag	Lead	Lag	Lead	X	N/A	Appeared to be bacteria mat across the top surface of FB1.
09/16/2021	101	No				Lag	Lead	Lag	Lead		Skimmed, fluffed, and installed new fabric in FB2. Adjusted valves to dewater FB2. Flushed and removed 6 inches of gravel from inlet basin. Installed inlet weir in order to flush inlet basin.	Raised height of datalogger in influent stilling basin by 3.5 inches.
09/20/2021	105	No	X			Lag	Lead	Lag	Lead	X	N/A	12 inches of freeboard.
09/22/2021	107	No			X	Lag	Lead	Lag	Lead		N/A	Bypassed overnight.
09/23/2021	108	No				Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 2 inches.
09/24/2021	109	No		X		Lag	Lead	Lag	Lead		Wet vacuumed FB2.	Water was in spillway, but was not bypassing. Water was high and murky in FBs. Influent ISCO missed one aliquot (#28).
09/27/2021	112	No	X			Lag	Lead	Lag	Lead		N/A	N/A
09/28/2021	113	No				Lag	Lead	Lag	Lead	X	N/A	N/A
09/29/2021	114	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB2. Flushed inlet basin.	No freeboard, but not bypassing.
10/01/2021	116	No		X		Lag	Lead	Lag	Lead		N/A	12 inches of freeboard.
10/04/2021	119	No	X			Lag	Lead	Lag	Lead	X	N/A	N/A
10/05/2021	120	No				Lag	Lead	Lag	Lead		N/A	Evidence of bypass in spillway. 2 inches of freeboard. Rain gauge reading of 1.1 inches.
10/07/2021	122	No				Lag	Lead	Lag	Lead		Vacuumed FB2.	Water flow observed north of flow through cell outlet.
10/11/2021	126	No	X			Lag	Lead	Lag	Lead	X	N/A	No evidence of bypass in the spillway. Rain gauge reading of 13 mm.
10/13/2021	128	No				Lag	Lead	Lag	Lead		FB2 maintenance. Isolated FB2 for maintenance.	Secondary bypass on northeast end of Seep.
10/15/2021	130	No	X			Lag	Lead	Lag	Lead		Wet vacuumed FB1. Adjusted valve to allow more water to enter lag bed for maintenance.	11 inches of freeboard.
10/18/2021	133	No	X			Lag	Lead	Lag	Lead	X	N/A	8.5 inches of freeboard. Secondary bypass on northeast end of Seep.
10/20/2021	135	No				Lag	Lead	Lag	Lead		Skimmed and fluffed FB1 and FB2.	6.5 inches of freeboard.
10/22/2021	137	--	X			Lag	Lead	Lag	Lead		N/A	N/A
10/25/2021	140	No	X			Lag	Lead	Lag	Lead	X	N/A	9.5 inches of freeboard. Flow observed at north slope of outlet.
10/26/2021	141	No				Lag	Lead	Lag	Lead		Inlet basin isolated. Administered biocide to lead bed. Wet vacuumed FB2.	N/A
10/27/2021	142	No			X	Lag	Lead	Lag	Lead		N/A	9 inches of freeboard. Secondary bypass on northeast end.
10/29/2021	144	No		X		Lag	Lead	Lag	Lead		Wet vacuumed FB2.	4 inches of freeboard. Rain gauge reading of 0.5 inches. Secondary bypass on northeast end.

**Notes**  
 FB1 - Filter Bed 1  
 FB2 - Filter Bed 2  
 FTC - flow through cell  
 GAC - granulated activated carbon  
 ISCO - Teledyne ISCO Autosampler  
 mm - millimeters  
 N/A - Not Applicable

**Table 1c**  
**Summary of Operations and Maintenance Activities - Seep C**  
**Reporting Period 5 (September - October 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			
09/01/2021	260	No				Lead	Lag	Lead	Lag		FB1 and influent stilling basin maintenance.	N/A
09/02/2021	261	--				Lead	Lag	Parallel	Parallel		N/A	N/A
09/03/2021	262	No				Lead	Lag	Lead	Lag		Valve adjustment.	N/A
09/07/2021	266	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
09/09/2021	268	No				Lead	Lag	Lead	Lag		N/A	Post-storm inspection. Less than half an inch of freeboard. Rain gauge reading between 9/16 and 5/8 inches.
09/13/2021	272	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
09/16/2021	275	--		X		--	--	--	--		N/A	N/A
09/20/2021	279	No	X			Lead	Lag	Lead	Lag	X	N/A	9 inches of freeboard.
09/22/2021	281	Yes				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 2.25 inches. Effluent sample only collected 1-9 samples. Grab sample collected in the effluent.
09/23/2021	282	Yes			X	Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 2 inches.
09/24/2021	283	Yes				Lead	Lag	Parallel	Parallel		Wet vacuumed FB1 and FB2.	Water in FB2 was high and murky.
09/27/2021	286	No	X			Parallel	Parallel	Parallel	Parallel		N/A	4.5 inches of freeboard.
09/28/2021	287	No				Parallel	Parallel	Parallel	Parallel	X	N/A	N/A
09/30/2021	289	No				Parallel	Parallel	Changeout	Lead		Removed sand and spent fabric from inlet. Flushed inlet basins. Trimmed datalogger casing and reset dataloggers height and telemetry height to 35.5 inches from top of casing. Isolated FB1 for removal of spent GAC.	N/A
10/01/2021	290	No		X		Changeout	Lead	Lag	Lead		FB1 GAC changeout.	During GAC changeout, noted unknown layer of sediment 12 inches from bottom of cell.
10/04/2021	293	No				Lag	Lead	Lag	Lead	X	N/A	N/A
10/05/2021	294	Yes				Lag	Lead	Lag	Lead		N/A	Impoundment water very turbid from storm water runoff. Rain gauge reading of 1.125 inches.
10/07/2021	296	Yes				Lag	Lead	Lag	Lead		Wet vacuumed FB2.	Silt flow from uphill construction. Stopped bypassing after service.
10/11/2021	300	Yes	X			Lag	Lead	Lag	Lead	X	N/A	Rain gauge reading of 12 mm.
10/12/2021	301	Yes				Lag	Lead	Lag	Lead		Wet vacuumed and fluffed FB2. FB1 used as sole processor during maintenance of FB2.	High turbidity observed in the reservoir basin from recent rain. GAC observed at bottom of effluent basin.
10/15/2021	304	No		X		Lead	Closed	Lead	Closed		Vacuumed FB2. Removed matting and bricks.	11 inches of freeboard.
10/18/2021	307	--				Lead	Changeout	Lead	Lag		FB2 GAC changeout.	N/A
10/19/2021	308	No				Lead	Lag	Lead	Lag		Wet vacuumed FB1. FB1 intake shutoff for 3.5 hours.	Turbid water.
10/21/2021	310	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, raked, and replaced fabric at FB1. FB1 dewatered for maintenance.	N/A
10/22/2021	311	--	X			Lead	Lag	Lead	Lag		N/A	N/A
10/25/2021	314	No	X			Lead	Lag	Lead	Lag	X	N/A	7.5 inches of freeboard.
10/26/2021	315	No				Lead	Lag	Lead	Lag		Wet vacuumed FB1 and FB2.	Rain gauge reading of 5/8 inches. No freeboard.
10/27/2021	316	No			X	Lead	Lag	Lead	Lag		N/A	N/A
10/29/2021	318	No		X		Lead	Lag	Lead	Lag		N/A	Reservoir appeared turbid.

**Notes**

FB1 - Filter Bed 1  
 FB2 - Filter Bed 2  
 FTC - flow through cell  
 GAC - granulated activated carbon  
 ISCO - Teledyne ISCO Autosampler  
 mm - millimeters  
 N/A - Not Applicable

**Table 1d**  
**Summary of Operations and Maintenance Activities - Seep D**  
**Reporting Period 5 (September - October 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			
09/02/2021	71	--				Lead	Lag	Parallel	Parallel		Valves positioned to parallel processing.	N/A
09/07/2021	76	No	X			Lead	Lag	Lead	Lag	X	Pumped down inlet basin. Removed sand and replaced fabric.	2 inches of freeboard. Bacteria present under fabric and inlet basin.
09/09/2021	78	No				Lead	Lag	Lead	Lag		N/A	Influent ISCO had intact tubing loose and missed 32-34 sample aliquots. Rain gauge reading of 3/4 inches. 1 inch of freeboard.
09/13/2021	82	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
09/16/2021	85	No		X		Lead	Lag	Lead	Lag		N/A	N/A
09/20/2021	89	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
09/21/2021	90	No				Lead	Lag	Lead	Lag		Flushed inlet basin and wet vacuumed FB1 surface. Temporarily installed W1 and isolated FB1. Reversed after 2.5 hours.	N/A
09/22/2021	91	No				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 2.75 inches. 14 inches of freeboard. Influent sampled missed aliquot #2.
09/23/2021	92	No			X	Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 2.75 inches. 11 inches of freeboard.
09/27/2021	96	No	X			Lead	Lag	Closed	Lead	X	Dewatered FB1 for maintenance.	3 inches of freeboard.
09/28/2021	97	No				Closed	Lead	Lead	Lag		Skimmed, fluffed, and added new fabric in FB1. Flushed inlet basin.	15 inches of freeboard. Bacteria growth on FB1.
10/01/2021	100	No		X		Lead	Lag	Lead	Lag		N/A	12 inches of freeboard.
10/04/2021	103	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
10/05/2021	104	No				Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 1.25 inches. Impoundment turbid from storm runoff. Signs of heavy runoff along gravel road above Seep D.
10/06/2021	105	No				Lead	Lag	Lead	Lag		Wet vacuumed FB1.	Turbid water in FB1 from 10/04/2021 rain event. Flow increased immediately after wet vacuuming.
10/11/2021	110	No	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 17 mm.
10/13/2021	112	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, and added new fabric in FB1.	2 inches of freeboard.
10/15/2021	114	No		X		Lead	Lag	Lead	Lag		N/A	More than 7 inches of freeboard.
10/18/2021	117	No	X			Lead	Lag	Lead	Lag	X	N/A	8.5 inches of freeboard. Secondary bypass at northeast end of Seep. Strong sewage odor noted at Seep.
10/21/2021	120	No				Lead	Lag	Lead	Lag		Vacuumed and fluffed FB1. Skimmed and fluffed FB2. Replaced fabric on both FB1 and FB2.	N/A
10/22/2021	121	--	X			Lead	Lag	Lead	Lag		N/A	N/A
10/25/2021	124	No	X			Lead	Lag	Lead	Lag	X	N/A	Water observed flowing through downgradient riprap slope on northeast side of dam. Iron staining observed on rocks above discharge pipe. Yellowish hue in reservoir.
10/26/2021	125	No				Lead	Lag	Changeout	Lead		Carbon changeout at FB1. FB2 was turned on as primary processor at 1600.	Rain gauge reading of 0.5 inches. 6 inches of freeboard.
10/27/2021	126	No			X	Changeout	Lead	Changeout	Lead		N/A	N/A
10/29/2021	128	No		X		Lag	Lead	Lag	Lead		N/A	Rain gauge reading of 0.5 inches. 15 inches of freeboard.

**Notes**  
 FB1 - Filter Bed 1  
 FB2 - Filter Bed 2  
 FTC - flow through cell  
 GAC - granulated activated carbon  
 ISCO - Teledyne ISCO Autosampler  
 mm - millimeters  
 N/A - Not Applicable  
 W1 - Weir 1



**Table 2a**  
**Sampling Summary - Seep A**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-A-INFLUENT-336-091421 SEEP-A-EFFLUENT-336-091421	September 1 - September 14, 2021	September 14, 2021
SEEP-A-INFLUENT-252-100121 SEEP-A-EFFLUENT-336-100121	September 17 - October 1, 2021	October 1, 2021
SEEP-A-INFLUENT-336-101521 SEEP-A-EFFLUENT-336-101521	October 1 - October 15, 2021	October 15, 2021
SEEP-A-INFLUENT-336-102921 SEEP-A-EFFLUENT-336-102921	October 15 - October 29, 2021	October 29, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-A-INFLUENT-RAIN-24-092221 SEEP-A-EFFLUENT-RAIN-24-092221	September 22, 2021	09:02	1.69
SEEP-A-INFLUENT-RAIN-24-101021 SEEP-A-EFFLUENT-RAIN-24-101021	October 10, 2021	14:15	0.35

*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.

**Table 2b**  
**Sampling Summary - Seep B**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-B-INFLUENT-210-090921 SEEP-B-EFFLUENT-210-090921	September 1 - September 9, 2021	September 9, 2021
SEEP-B-INFLUENT-330-092321 SEEP-B-EFFLUENT-336-092321	September 9 - September 23, 2021	September 23, 2021
SEEP-B-INFLUENT-168-100121 SEEP-B-EFFLUENT-168-100121	September 24 - October 1, 2021	October 1, 2021
SEEP-B-INFLUENT-336-101521 SEEP-B-EFFLUENT-336-101521	October 1 - October 15, 2021	October 15, 2021
SEEP-B-INFLUENT-198-102921 SEEP-B-EFFLUENT-336-102921	October 15 - October 29, 2021	October 29, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-B-INFLUENT-RAIN-24-092221 SEEP-B-EFFLUENT-RAIN-24-092221	September 22, 2021	10:05	1.69
SEEP-B-INFLUENT-RAIN-16-102621 SEEP-B-EFFLUENT-RAIN-24-102621	October 26, 2021	23:21	0.54

*Notes*

- 1 A GAC changeout was completed on September 9, interrupting the two-week composite sample that began on September 1. A second composite sample was collected from September 9 through 23, following the GAC changeout. A third composite sample for the month of September was collected from September 24 through October 1 to cover the remainder of the month.
- 2 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
- 3 Precipitation data for the September 22 sample was obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
- 4 Precipitation data for the October 26 sample was obtained from telemetry rain gauge data at Seep A. Seep B telemetry equipment is expected to be installed in November 2021.

**Table 2c**  
**Sampling Summary - Seep C**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-C-INFLUENT-336-091421 SEEP-C-EFFLUENT-336-091421	September 1 - September 14, 2021	September 14, 2021
SEEP-C-INFLUENT-330-100121 SEEP-C-EFFLUNT-336-100121	September 17 - October 1, 2021	October 1, 2021
SEEP-C-INFLUENT-336-101521 SEEP-C-EFFLUENT-336-101521	October 1 - October 15, 2021	October 15, 2021
SEEP-C-INFLUENT-336-102921 SEEP-C-EFFLUENT-336-102921	October 15 - October 29, 2021	October 29, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-C-INFLUENT-RAIN-24-092321 SEEP-C-EFFLUENT-RAIN-24-092321	September 23, 2021	14:15	0.39
SEEP-C-INFLUENT-RAIN-21-102621 SEEP-C-EFFLUENT-RAIN-16-102621	October 26, 2021	23:00	0.54

*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 for the September 23 sample was obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
- 3 Precipitation data for the October 26 sample was obtained from telemetry rain gauge data at Seep C.

**Table 2d**  
**Sampling Summary - Seep D**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

**Performance Monitoring Composite Samples**

Sample ID	Composite Period	Sample Date
SEEP-D-INFLUENT-318-091421 SEEP-D-EFFLUENT-336-091421	September 1 - September 14, 2021	September 14, 2021
SEEP-D-INFLUENT-336-100121 SEEP-D-EFFLUENT-330-100121	September 17 - October 1, 2021	October 1, 2021
SEEP-D-INFLUENT-282-101521 SEEP-D-EFFLUENT-336-101521	October 1 - October 15, 2021	October 15, 2021
SEEP-D-INFLUENT-336-102921 SEEP-D-EFFLUENT-336-102921	October 15 - October 29, 2021	October 29, 2021

**Wet Weather Composite Sample**

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-D-INFLUENT-RAIN-24-092321 SEEP-D-EFFLUENT-RAIN-24-092321	September 23, 2021	11:13	0.79
SEEP-D-INFLUENT-RAIN-21-102621 SEEP-D-EFFLUENT-RAIN-24-102621	October 26, 2021	23:01	0.54

*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 for the September 23 sample was obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
- 3 Precipitation data for the October 26 sample was obtained from telemetry rain gauge data at Seep C. Seep D telemetry equipment is expected to be installed in November 2021.

**Table 3a**  
**Summary of Performance Monitoring Analytical Results - Seep A**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-A-INFLUENT- 336-091421	SEEP-A-EFFLUENT- 336-091421	Percent Removal	SEEP-A-INFLUENT- 252-100121	SEEP-A-EFFLUENT- 336-100121	Percent Removal	SEEP-A-INFLUENT- 336-101521	SEEP-A-EFFLUENT- 336-101521	Percent Removal	SEEP-A-INFLUENT- 336-102921	SEEP-A-EFFLUENT- 336-102921	Percent Removal
	Sample Date: 14-Sep-21	Sample Date: 14-Sep-21		Sample Date: 1-Oct-21	Sample Date: 1-Oct-21		Sample Date: 15-Oct-21	Sample Date: 15-Oct-21		Sample Date: 29-Oct-21	Sample Date: 29-Oct-21	
<i>Table 3 + SOP (ng/L)</i>												
Hfpo Dimer Acid	25,000	7.6	>99.9%	32,000	4.6	>99.9%	25,000	2.9	>99.9%	25,000	2.5	>99.9%
PFMOAA	75,000	74	99.9%	76,000	27	>99.9%	68,000	23	>99.9%	72,000	12	>99.9%
PFO2HxA	45,000	16	>99.9%	43,000	7.5	>99.9%	43,000	5.8	>99.9%	41,000	4.9	>99.9%
PFO3OA	17,000	3.4	>99.9%	14,000	<2.0	100.0%	16,000	<2.0	100.0%	16,000	<2.0	100.0%
PFO4DA	7,600	<2.0	100.0%	7,700	<2.0	100.0%	8,800	<2.0	100.0%	7,500	<2.0	100.0%
PFO5DA	4,800	<2.0	100.0%	4,000	<2.0	100.0%	4,800	<2.0	100.0%	3,700	<2.0	100.0%
PMPA	22,000	28	99.9%	20,000	<10	100.0%	20,000	<10	100.0%	18,000	<10	100.0%
PEPA	8,800	<20	100.0%	7,400	<20	100.0%	7,200	<20	100.0%	6,800	<20	100.0%
PS Acid	3,900	<2.0	100.0%	4,600	<2.0	100.0%	4,800	<2.0	100.0%	3,400	<2.0	100.0%
Hydro-PS Acid	1,400	<2.0	100.0%	1,600	<2.0	100.0%	1,600	<2.0	100.0%	1,700	<2.0	100.0%
R-PSDA	2,300 J	<2.0	100.0%	2,700 J	<2.0	100.0%	2,300 J	<2.0	100.0%	2,600 J	<2.0	100.0%
Hydrolyzed PSDA	26,000 J	6.3 J	>99.9%	28,000 J	2.6 J	>99.9%	27,000 J	<2.0	100.0%	30,000 J	<2.0	100.0%
R-PSDCA	51	<2.0	100.0%	48	<2.0	100.0%	52	<2.0	100.0%	51	<2.0	100.0%
NVHOS, Acid Form	1,200	<2.0	100.0%	1,300	<2.0	100.0%	1,100	<2.0	100.0%	1,300	<2.0	100.0%
EVE Acid	500	<2.0	100.0%	620	<2.0	100.0%	530	<2.0	100.0%	390	<2.0	100.0%
Hydro-EVE Acid	1,800	<2.0	100.0%	1,900	<2.0	100.0%	1,600	<2.0	100.0%	1,700	<2.0	100.0%
R-EVE	1,100 J	<2.0	100.0%	1,100 J	<2.0	100.0%	1,100 J	<2.0	100.0%	1,200 J	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>210,000</b>	<b>130</b>	<b>99.9%</b>	<b>210,000</b>	<b>39</b>	<b>&gt;99.9%</b>	<b>200,000</b>	<b>32</b>	<b>&gt;99.9%</b>	<b>200,000</b>	<b>19</b>	<b>&gt;99.9%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>240,000</b>	<b>140</b>	<b>99.9%</b>	<b>250,000</b>	<b>42</b>	<b>&gt;99.9%</b>	<b>230,000</b>	<b>32</b>	<b>&gt;99.9%</b>	<b>230,000</b>	<b>19</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.

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 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-B-INFLUENT- 210-090921	SEEP-B-EFFLUENT- 210-090921	Percent Removal	SEEP-B-INFLUENT- 330-092321	SEEP-B-EFFLUENT- 336-0923321	Percent Removal	SEEP-B-INFLUENT- 168-100121	SEEP-B-EFFLUENT- 168-100121	Percent Removal	SEEP-B-INFLUENT- 336-101521	SEEP-B-EFFLUENT- 336-101521	Percent Removal
	Sample Date: 9-Sep-21	Sample Date: 9-Sep-21		Sample Date: 23-Sep-21	Sample Date: 23-Sep-21		Sample Date: 1-Oct-21	Sample Date: 1-Oct-21		Sample Date: 15-Oct-21	Sample Date: 15-Oct-21	
<i>Table 3 + SOP (ng/L)</i>												
Hfpo Dimer Acid	<b>21,000</b>	<b>2.6</b>	>99.9%	<b>50,000</b>	<b>30</b>	99.9%	<b>66,000</b>	<b>17</b>	>99.9%	<b>32,000</b>	<b>8.7</b>	>99.9%
PFMOAA	<b>92,000</b>	<b>2.3</b>	>99.9%	<b>180,000</b>	<b>260</b>	99.9%	<b>170,000</b>	<b>100</b>	99.9%	<b>80,000</b>	<b>76</b>	99.9%
PFO2HxA	<b>34,000</b>	<2.0	100.0%	<b>68,000</b>	<b>39</b>	99.9%	<b>66,000</b>	<b>14</b>	>99.9%	<b>37,000</b>	<b>9.4</b>	>99.9%
PFO3OA	<b>8,600</b>	<2.0	100.0%	<b>16,000</b>	<b>5.3</b>	>99.9%	<b>16,000</b>	<b>2</b>	>99.9%	<b>9,100</b>	<2.0	100.0%
PFO4DA	<b>1,400</b>	<2.0	100.0%	<b>2,700</b>	<2.0	100.0%	<b>2,900</b>	<2.0	100.0%	<b>1,900</b>	<2.0	100.0%
PFO5DA	<b>150</b>	<2.0	100.0%	<b>340</b>	<2.0	100.0%	<b>480</b>	<2.0	100.0%	<b>360</b>	<2.0	100.0%
PMPA	<b>25,000</b>	<10	100.0%	<b>52,000</b>	<b>130</b>	99.8%	<b>71,000</b>	<b>61</b>	99.9%	<b>41,000</b>	<b>40</b>	99.9%
PEPA	<b>9,900</b>	<20	100.0%	<b>24,000</b>	<b>35</b>	99.9%	<b>34,000</b>	<20	100.0%	<b>19,000</b>	<20	100.0%
PS Acid	<b>560</b>	<2.0	100.0%	<b>1,800</b>	<2.0	100.0%	<b>2,200</b>	<2.0	100.0%	<b>1,900</b>	<2.0	100.0%
Hydro-PS Acid	<b>620</b>	<2.0	100.0%	<b>1,500</b>	<2.0	100.0%	<b>1,900</b>	<2.0	100.0%	<b>1,000</b>	<2.0	100.0%
R-PSDA	<b>3,900 J</b>	<2.0	100.0%	<b>5,100 J</b>	<b>4.3 J</b>	99.9%	<b>7,100 J</b>	<2.0	100.0%	<b>4,100 J</b>	<2.0	100.0%
Hydrolyzed PSDA	<b>32,000 J</b>	<2.0	100.0%	<b>42,000 J</b>	<b>23 J</b>	99.9%	<b>54,000 J</b>	<b>6.2 J</b>	>99.9%	<b>30,000 J</b>	<b>3.6 J</b>	>99.9%
R-PSDCA	<b>40</b>	<2.0	100.0%	<b>86</b>	<2.0	100.0%	<b>110</b>	<2.0	100.0%	<b>64</b>	<2.0	100.0%
NVHOS, Acid Form	<b>1,900</b>	<2.0	100.0%	<b>3,900</b>	<b>2.7</b>	99.9%	<b>4,500</b>	<2.0	100.0%	<b>2,400</b>	<2.0	100.0%
EVE Acid	<b>340</b>	<2.0	100.0%	<b>1,500</b>	<2.0	100.0%	<b>1,900</b>	<2.0	100.0%	<b>1,300</b>	<2.0	100.0%
Hydro-EVE Acid	<b>1,300</b>	<2.0	100.0%	<b>3,000</b>	<2.0	100.0%	<b>3,800</b>	<2.0	100.0%	<b>2,100</b>	<2.0	100.0%
R-EVE	<b>1,900 J</b>	<2.0	100.0%	<b>3,100 J</b>	<b>3.7 J</b>	99.9%	<b>4,400 J</b>	<2.0	100.0%	<b>2,600 J</b>	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>200,000</b>	<b>4.9</b>	<b>&gt;99.9%</b>	<b>400,000</b>	<b>500</b>	<b>99.9%</b>	<b>440,000</b>	<b>190</b>	<b>&gt;99.9%</b>	<b>230,000</b>	<b>130</b>	<b>99.9%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>230,000</b>	<b>4.9</b>	<b>&gt;99.9%</b>	<b>460,000</b>	<b>530</b>	<b>99.9%</b>	<b>510,000</b>	<b>200</b>	<b>&gt;99.9%</b>	<b>270,000</b>	<b>140</b>	<b>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.

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 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	<b>SEEP-B-INFLUENT- 198-102921</b>	<b>SEEP-B-EFFLUENT- 336-102921</b>	
	Sample Date: 29-Oct-21	Sample Date: 29-Oct-21	<b>Percent Removal</b>
<i>Table 3 + SOP (ng/ L)</i>			
Hfpo Dimer Acid	<b>24,000</b>	<b>5.2</b>	>99.9%
PFMOAA	<b>110,000</b>	<b>36</b>	>99.9%
PFO2HxA	<b>42,000</b>	<b>6.5</b>	>99.9%
PFO3OA	<b>10,000</b>	<2.0	100.0%
PFO4DA	<b>1,600</b>	<2.0	100.0%
PFO5DA	<b>130</b>	<2.0	100.0%
PMPA	<b>31,000</b>	<b>27</b>	99.9%
PEPA	<b>12,000</b>	<20	100.0%
PS Acid	<b>840</b>	<2.0	100.0%
Hydro-PS Acid	<b>680</b>	<2.0	100.0%
R-PSDA	<b>3,500 J</b>	<2.0	100.0%
Hydrolyzed PSDA	<b>32,000 J</b>	<2.0	100.0%
R-PSDCA	<b>39</b>	<2.0	100.0%
NVHOS, Acid Form	<b>2,300</b>	<2.0	100.0%
EVE Acid	<b>600</b>	<2.0	100.0%
Hydro-EVE Acid	<b>1,400</b>	<2.0	100.0%
R-EVE	<b>1,800 J</b>	<2.0	100.0%
PES	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>240,000</b>	<b>75</b>	<b>&gt;99.9%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>270,000</b>	<b>75</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

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.

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 S:

**Table 3c**  
**Summary of Performance Monitoring Analytical Results - Seep C**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-C-INFLUENT- 336-091421	SEEP-C-EFFLUENT- 336-091421	Percent Removal	SEEP-C-INFLUENT- 330-100121	SEEP-C-EFFLUENT- 336-100121	Percent Removal	SEEP-C-INFLUENT- 336-101521	SEEP-C-EFFLUENT- 336-101521	Percent Removal	SEEP-C-INFLUENT- 336-102921	SEEP-C-EFFLUENT- 336-102921	Percent Removal
	Sample Date: 14-Sep-21	Sample Date: 14-Sep-21		Sample Date: 1-Oct-21	Sample Date: 1-Oct-21		Sample Date: 15-Oct-21	Sample Date: 15-Oct-21		Sample Date: 29-Oct-21	Sample Date: 29-Oct-21	
<i>Table 3 + SOP (ng/ L)</i>												
Hfpo Dimer Acid	18,000	4.7	>99.9%	32,000	3,600	88.8%	15,000	32	99.8%	18,000	11	99.9%
PFMOAA	51,000	82	99.8%	86,000	9,800	88.6%	42,000	1,200	97.1%	51,000	230	99.5%
PFO2HxA	24,000	10	>99.9%	40,000	4,100	89.8%	21,000	58	99.7%	24,000	24	99.9%
PFO3OA	8,000	<2.0	100.0%	13,000	1,300	90.0%	6,900	8.5	99.9%	8,100	2.3	>99.9%
PFO4DA	2,300	<2.0	100.0%	4,100	380	90.7%	2,700	6.5	99.8%	2,500	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	140	<16	100.0%	120	<2.0	100.0%	<78	<2.0	100.0%
PMPA	8,900	15	99.8%	14,000	1,500	89.3%	8,200	230	97.2%	8,400	31	99.6%
PEPA	2,900	<2.0	100.0%	4,500	510	88.7%	2,800	<2.0	100.0%	2,800	<2.0	100.0%
PS Acid	<20	<2.0	100.0%	<20	<3.9	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	340	<2.0	100.0%	630	76	87.9%	370	<2.0	100.0%	430	<2.0	100.0%
R-PSDA	630 J	<2.0	100.0%	1,200 J	140 J	88.3%	600 J	<2.0	100.0%	830 J	<2.0	100.0%
Hydrolyzed PSDA	860 J	<2.0	100.0%	1,500 J	150 J	90.0%	720 J	<2.0	100.0%	980 J	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	23	<3.5	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	640	<2.0	100.0%	1,200	130	89.2%	570	<2.0	100.0%	730	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<3.5	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	1,200	<2.0	100.0%	2,000	240	88.0%	1,000	<2.0	100.0%	1,300	<2.0	100.0%
R-EVE	610 J	<2.0	100.0%	1,000 J	110 J	89.0%	540 J	<2.0	100.0%	690 J	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<5.3	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<9.6	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>120,000</b>	<b>110</b>	<b>99.9%</b>	<b>200,000</b>	<b>22,000</b>	<b>89.0%</b>	<b>100,000</b>	<b>1,500</b>	<b>98.5%</b>	<b>120,000</b>	<b>300</b>	<b>99.8%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>120,000</b>	<b>110</b>	<b>99.9%</b>	<b>200,000</b>	<b>22,000</b>	<b>89.0%</b>	<b>100,000</b>	<b>1,500</b>	<b>98.5%</b>	<b>120,000</b>	<b>300</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.

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 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	SEEP-D-INFLUENT- 318-091421	SEEP-D-EFFLUENT- 336-091421	Percent Removal	SEEP-D-INFLUENT- 336-100121	SEEP-D-EFFLUENT- 330-100121	Percent Removal	SEEP-D-INFLUENT- 282-101521	SEEP-D-EFFLUENT- 336-101521	Percent Removal	SEEP-D-INFLUENT- 336-102921	SEEP-D-EFFLUENT- 336-102921	Percent Removal
	Sample Date: 14-Sep-21	Sample Date: 14-Sep-21		Sample Date: 1-Oct-21	Sample Date: 1-Oct-21		Sample Date: 15-Oct-21	Sample Date: 15-Oct-21		Sample Date: 29-Oct-21	Sample Date: 29-Oct-21	
<i>Table 3 + SOP (ng/L)</i>												
Hfpo Dimer Acid	<b>12,000</b>	<2.0	100.0%	<b>25,000</b>	<2.0	100.0%	<b>12,000</b>	<2.0	100.0%	<b>13,000</b>	<2.0	100.0%
PFMOAA	<b>46,000</b>	<2.0	100.0%	<b>86,000</b>	<2.0	100.0%	<b>44,000</b>	<2.0	100.0%	<b>50,000</b>	<b>10</b>	>99.9%
PFO2HxA	<b>21,000</b>	<2.0	100.0%	<b>36,000</b>	<2.0	100.0%	<b>22,000</b>	<2.0	100.0%	<b>22,000</b>	<2.0	100.0%
PFO3OA	<b>6,400</b>	<2.0	100.0%	<b>10,000</b>	<2.0	100.0%	<b>6,900</b>	<b>2.7</b>	>99.9%	<b>7,000</b>	<2.0	100.0%
PFO4DA	<b>1,700</b>	<2.0	100.0%	<b>2,900</b>	<2.0	100.0%	<b>2,100</b>	<2.0	100.0%	<b>1,800</b>	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	<b>160</b>	<2.0	100.0%	<b>110</b>	<2.0	100.0%	<b>88</b>	<2.0	100.0%
PMPA	<b>7,000</b>	<10	100.0%	<b>11,000</b>	<10	100.0%	<b>7,300</b>	<10	100.0%	<b>6,500</b>	<10	100.0%
PEPA	<b>2,300</b>	<20	100.0%	<b>3,700</b>	<20	100.0%	<b>2,400</b>	<20	100.0%	<b>2,100</b>	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	<b>250</b>	<2.0	100.0%	<b>430</b>	<2.0	100.0%	<b>310</b>	<2.0	100.0%	<b>300</b>	<2.0	100.0%
R-PSDA	<b>540 J</b>	<2.0	100.0%	<b>1,200 J</b>	<2.0	100.0%	<b>750 J</b>	<2.0	100.0%	<b>890 J</b>	<2.0	100.0%
Hydrolyzed PSDA	<b>1,300 J</b>	<2.0	100.0%	<b>2,600 J</b>	<2.0	100.0%	<b>1,600 J</b>	<b>5.2 J</b>	99.7%	<b>1,900 J</b>	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	<b>590</b>	<2.0	100.0%	<b>1,100</b>	<2.0	100.0%	<b>660</b>	<2.0	100.0%	<b>700</b>	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	<b>860</b>	<2.0	100.0%	<b>1,500</b>	<2.0	100.0%	<b>930</b>	<2.0	100.0%	<b>1,000</b>	<2.0	100.0%
R-EVE	<b>620 J</b>	<2.0	100.0%	<b>1,100 J</b>	<2.0	100.0%	<b>680 J</b>	<2.0	100.0%	<b>690 J</b>	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 compounds)<sup>1,2</sup></b>	<b>98,000</b>	ND	<b>100.0%</b>	<b>180,000</b>	ND	<b>100.0%</b>	<b>99,000</b>	<b>2.7</b>	<b>&gt;99.9%</b>	<b>100,000</b>	<b>10</b>	<b>&gt;99.9%</b>
<b>Total Table 3+ (20 compounds)<sup>1</sup></b>	<b>100,000</b>	ND	<b>100.0%</b>	<b>180,000</b>	ND	<b>100.0%</b>	<b>100,000</b>	<b>7.9</b>	<b>&gt;99.9%</b>	<b>110,000</b>	<b>10</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.

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

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

< - 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 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-A-INFLUENT-RAIN-24-092221 Sample Date: 22-Sep-21	SEEP-A-EFFLUENT-RAIN-24-092221 Sample Date: 22-Sep-21	Percent Removal	SEEP-A-INFLUENT-RAIN-24-101021 Sample Date: 10-Oct-21	SEEP-A-EFFLUENT-RAIN-24-101021 Sample Date: 10-Oct-21	Percent Removal
Hfpo Dimer Acid	<b>19,000</b>	<b>2.4</b>	>99.9%	<b>25,000</b>	<b>2.7</b>	>99.9%
PFMOAA	<b>50,000</b>	<b>21</b>	>99.9%	<b>67,000</b>	<b>25</b>	>99.9%
PFO2HxA	<b>30,000</b>	<b>4.7</b>	>99.9%	<b>31,000</b>	<b>4.6</b>	>99.9%
PFO3OA	<b>11,000</b>	<2.0	100.0%	<b>10,000</b>	<2.0	100.0%
PFO4DA	<b>5,100</b>	<2.0	100.0%	<b>5,500</b>	<2.0	100.0%
PFO5DA	<b>2,800</b>	<2.0	100.0%	<b>2,600</b>	<2.0	100.0%
PMPA	<b>14,000</b>	<10	100.0%	<b>14,000</b>	<10	100.0%
PEPA	<b>5,200</b>	<20	100.0%	<b>5,000</b>	<20	100.0%
PS Acid	<b>3,400</b>	<2.0	100.0%	<b>4,800</b>	<2.0	100.0%
Hydro-PS Acid	<b>1,000</b>	<2.0	100.0%	<b>1,300</b>	<2.0	100.0%
R-PSDA	<b>1,800 J</b>	<2.0	100.0%	1,700 UJ	<2.0	100.0%
Hydrolyzed PSDA	<b>22,000 J</b>	<2.0	100.0%	19,000 UJ	<2.0	100.0%
R-PSDCA	<b>37</b>	<2.0	100.0%	<b>37</b>	<2.0	100.0%
NVHOS, Acid Form	<b>920</b>	<2.0	100.0%	<b>1,000</b>	<2.0	100.0%
EVE Acid	<b>520</b>	<2.0	100.0%	<b>580</b>	<2.0	100.0%
Hydro-EVE Acid	<b>1,200</b>	<2.0	100.0%	<b>1,400</b>	<2.0	100.0%
R-EVE	<b>830 J</b>	<2.0	100.0%	710 UJ	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<b>41</b>	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 Compounds)<sup>[1,2]</sup></b>	<b>140,000</b>	<b>28</b>	<b>&gt;99.9%</b>	<b>170,000</b>	<b>32</b>	<b>&gt;99.9%</b>
<b>Total Table 3+ (20 Compounds)<sup>[1]</sup></b>	<b>170,000</b>	<b>28</b>	<b>&gt;99.9%</b>	<b>190,000</b>	<b>32</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.

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 4b**  
**Summary of Wet Weather Analytical Results - Seep B**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-B-INFLUENT- RAIN-24-092221 Sample Date: 22-Sep-21	SEEP-B-EFFLUENT- RAIN-24-92221 Sample Date: 22-Sep-21	Percent Removal	SEEP-B-INFLUENT- RAIN-24-102621 Sample Date: 26-Oct-21	SEEP-B-EFFLUENT- RAIN-16-102621 Sample Date: 26-Oct-21	Percent Removal
Hfpo Dimer Acid	<b>33,000</b>	<b>17</b>	99.9%	<b>27,000</b>	<b>4.5</b>	>99.9%
PFMOAA	<b>62,000</b>	<b>110</b>	99.8%	<b>88,000</b>	<b>30</b>	>99.9%
PFO2HxA	<b>28,000</b>	<b>16</b>	99.9%	<b>35,000</b>	<b>5.1</b>	>99.9%
PFO3OA	<b>7,200</b>	<b>2.4</b>	>99.9%	<b>9,000</b>	<2.0	100.0%
PFO4DA	<b>1,200</b>	<2.0	100.0%	<b>1,500</b>	<2.0	100.0%
PFO5DA	<b>310</b>	<2.0	100.0%	<b>170</b>	<2.0	100.0%
PMPA	<b>40,000</b>	<b>65</b>	99.8%	<b>29,000</b>	<b>24</b>	99.9%
PEPA	<b>20,000</b>	<20	100.0%	<b>13,000</b>	<20	100.0%
PS Acid	<b>2,500</b>	<2.0	100.0%	<b>1,100</b>	<2.0	100.0%
Hydro-PS Acid	<b>960</b>	<2.0	100.0%	<b>820</b>	<2.0	100.0%
R-PSDA	<b>4,200 J</b>	<2.0	100.0%	<b>3,200 J</b>	<2.0	100.0%
Hydrolyzed PSDA	<b>31,000 J</b>	<b>11 J</b>	>99.9%	<b>28,000 J</b>	<2.0	100.0%
R-PSDCA	<b>63</b>	<2.0	100.0%	<b>40</b>	<2.0	100.0%
NVHOS, Acid Form	<b>2,500</b>	<2.0	100.0%	<b>2,200</b>	<2.0	100.0%
EVE Acid	<b>2,100</b>	<2.0	100.0%	<b>840</b>	<2.0	100.0%
Hydro-EVE Acid	<b>2,200</b>	<2.0	100.0%	<b>1,500</b>	<2.0	100.0%
R-EVE	<b>2,800 J</b>	<2.0	100.0%	<b>1,900 J</b>	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 Compounds)<sup>[1,2]</sup></b>	<b>200,000</b>	<b>210</b>	<b>99.9%</b>	<b>210,000</b>	<b>64</b>	<b>&gt;99.9%</b>
<b>Total Table 3+ (20 Compounds)<sup>[1]</sup></b>	<b>240,000</b>	<b>220</b>	<b>99.9%</b>	<b>240,000</b>	<b>64</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.

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 4c**  
**Summary of Wet Weather Analytical Results - Seep C**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-C-INFLUENT- RAIN-24-092321 Sample Date: 23-Sep-21	SEEP-C-EFFLUENT- RAIN-24-092321 Sample Date: 23-Sep-21	Percent Removal	SEEP-C-INFLUENT- RAIN-16-102621 Sample Date: 26-Oct-21	SEEP-C-EFFLUENT- RAIN-21-102621 Sample Date: 26-Oct-21	Percent Removal
Hfpo Dimer Acid	12,000	13	99.9%	19,000	5	>99.9%
PFMOAA	35,000	940	97.3%	53,000	69	99.9%
PFO2HxA	16,000	37	99.8%	24,000	10	>99.9%
PFO3OA	5,100	<2.0	100.0%	7,900	<2.0	100.0%
PFO4DA	1,800	<2.0	100.0%	2,700	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	94	<2.0	100.0%
PMPA	6,100	120	98.0%	8,700	13	99.9%
PEPA	2,000	<20	100.0%	2,800	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	290	<2.0	100.0%	400	<2.0	100.0%
R-PSDA	530 J	<2.0	100.0%	790 J	<2.0	100.0%
Hydrolyzed PSDA	700 J	<2.0	100.0%	1,000 J	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	470	<2.0	100.0%	700	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	890	<2.0	100.0%	1,300	<2.0	100.0%
R-EVE	480 J	<2.0	100.0%	700 J	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 Compounds)<sup>[1,2]</sup></b>	<b>80,000</b>	<b>1,100</b>	<b>98.6%</b>	<b>120,000</b>	<b>97</b>	<b>99.9%</b>
<b>Total Table 3+ (20 Compounds)<sup>[1]</sup></b>	<b>81,000</b>	<b>1,100</b>	<b>98.6%</b>	<b>120,000</b>	<b>97</b>	<b>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.

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 4d**  
**Summary of Wet Weather Analytical Results - Seep D**  
**Reporting Period 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-D-INFLUENT- RAIN-24-092321 Sample Date: 23-Sep-21	SEEP-D-EFFLUENT- RAIN-24-092321 Sample Date: 23-Sep-21	Percent Removal	SEEP-D-INFLUENT- RAIN-21-102621 Sample Date: 26-Oct-21	SEEP-D-EFFLUENT- RAIN-24-102621 Sample Date: 26-Oct-21	Percent Removal
Hfpo Dimer Acid	11,000	<2.0	100.0%	14,000	<2.0	100.0%
PFMOAA	35,000	2.9	>99.9%	50,000	3	>99.9%
PFO2HxA	16,000	<2.0	100.0%	21,000	<2.0	100.0%
PFO3OA	4,800	<2.0	100.0%	6,800	<2.0	100.0%
PFO4DA	1,300	<2.0	100.0%	1,800	<2.0	100.0%
PFO5DA	110	<2.0	100.0%	100	<2.0	100.0%
PMPA	5,600	<10	100.0%	6,100	<10	100.0%
PEPA	1,800	<20	100.0%	2,000	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	200	<2.0	100.0%	270	<2.0	100.0%
R-PSDA	560 J	<2.0	100.0%	780 J	<2.0	100.0%
Hydrolyzed PSDA	1,400 J	<2.0	100.0%	1,700 J	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	470	<2.0	100.0%	680	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	700	<2.0	100.0%	960	<2.0	100.0%
R-EVE	460 J	<2.0	100.0%	660 J	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%
<b>Total Table 3+ (17 Compounds)<sup>[1,2]</sup></b>	<b>77,000</b>	<b>2.9</b>	<b>&gt;99.9%</b>	<b>100,000</b>	<b>3.0</b>	<b>&gt;99.9%</b>
<b>Total Table 3+ (20 Compounds)<sup>[1]</sup></b>	<b>79,000</b>	<b>2.9</b>	<b>&gt;99.9%</b>	<b>110,000</b>	<b>3.0</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.

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 5**  
**Cape Fear River Elevation and Local Precipitation Statistics**  
**Reporting Period 5 (September - October 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	320	61	0%	0.0	0%	0.0	0%	0.0	0%	0.0
A	187	61	0%	0.0	0%	0.0	0%	0.0	1%	1.9
B	146	61	0%	0.0	0%	0.0	0%	0.0	0%	0.0
D	130	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 (Sep - Oct 2021)	4.2
Current Reporting Period Historical Average (Sep - Oct 2004-2020) <sup>2</sup>	7.53
2021 Year-to-Date <sup>3</sup>	40.67
Historical Year-to-Date Average (2004-2020) <sup>2</sup>	35.94
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 5 (September - October 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
9/7/2021	5.4	1.9	-3.5	5.2	7.4	2.2	205	529	324	22	22	0	5.00	0.34	-4.66	0	0	0
9/13/2021	6.1	4.9	-1.2	4.0	4.8	0.8	163	144	-19	25	24	-1	7.14	0.64	-6.5	0	0	0
9/14/2021	7.5	7.6	0.1	3.8	5.4	1.6	201	140	-61	27	26	-1	0.50	0.33	-0.17	0	0	0
9/20/2021	5.8	4.6	-1.2	4.0	4.9	0.9	191	199	8	22	22	0	3.87	0.65	-3.22	0	0	0
9/22/2021	4.6	5.3	0.7	7.7	7.5	-0.2	174	113	-61	24	23	-1	352.00	2.11	-349.89	0	0	0
10/1/2021	8.3	8.1	-0.2	3.9	4.3	0.4	160	128	-32	22	22	0	6.36	0.81	-5.55	NM	NM	--
10/11/2021	6.9	6.9	0.0	4.8	5.2	0.4	143	133	-10	22	23	1	8.84	0.31	-8.53	NM	NM	--
10/15/2021	7.1	7.7	0.6	4.4	4.9	0.5	126	132	6	25	24	-1	2.03	0.00	-2.03	0	0	0
10/18/2021	4.2	3.4	-0.8	3.8	4.3	0.5	165	143	-22	18	19	1	6.11	0.51	-5.6	NM	NM	--
10/29/2021	4.2	5.8	1.6	3.1	4.1	1	154	122	-32	16	16	0	4.88	0.00	-4.88	NM	NM	--
<i>Average</i>	<i>6.0</i>	<i>5.6</i>	<i>-0.4</i>	<i>4.5</i>	<i>5.3</i>	<i>0.8</i>	<i>168.2</i>	<i>178.4</i>	<i>10.2</i>	<i>22.3</i>	<i>22.2</i>	<i>-0.1</i>	<i>39.7</i>	<i>0.6</i>	<i>-39.1</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>5.9</i>	<i>5.5</i>	<i>-0.4</i>	<i>4.0</i>	<i>4.9</i>	<i>0.9</i>	<i>164.1</i>	<i>136.6</i>	<i>-27.5</i>	<i>22.4</i>	<i>22.4</i>	<i>0.0</i>	<i>5.6</i>	<i>0.4</i>	<i>-5.2</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 5 (September - October 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
9/7/2021	2.9	3.4	0.5	4.2	4.7	0.5	129	136	7	23	22	-1	2.28	0.52	-1.76	0	0	0
9/9/2021	7.7	7.2	-0.5	7.0	7.0	0	135	174	39	25	25	0	7.74	0.84	-6.90	0	0	0
9/13/2021	4.7	3.8	-0.9	4.5	6.2	1.7	126	125	-1	24	24	0	1.58	0.62	-0.96	0	0	0
9/20/2021	4.8	5.6	0.8	4.8	5.3	0.5	120	154	34	24	24	0	3.58	0.60	-2.98	0	0	0
9/22/2021	6.1	NM	--	4.8	NM	--	82	NM	--	25	NM	--	15.90	NM	--	0	NM	--
9/23/2021	8.3	7.5	-0.8	5.5	6.0	0.5	493	952	459	19	20	1	3.51	14.15	10.64	0	0	0
10/1/2021	8.3	8.2	-0.1	4.7	6.9	2.2	193	387	194	23	25	2	0.86	0.84	-0.02	NM	NM	--
10/11/2021	5.1	6.2	1.1	7.1	7.6	0.5	128	108	-20	21	22	1	3.70	0.40	-3.30	0	0	0
10/15/2021	7.5	7.5	0	5.6	6.0	0.4	113	114	1	23	25	2	4.57	0.03	-4.54	0	0	0
10/18/2021	3.7	4.1	0.4	5.0	5.5	0.5	122	121	-1	19	20	1	12.68	1.44	-11.24	NM	NM	--
10/26/2021	5.7	8.2	2.5	4.7	5.9	1.2	130	130	0	21	204	183	2.23	0.00	-2.23	NM	NM	--
10/29/2021	1.8	5.4	3.6	4.5	5.1	0.6	124	116	-8	17	17	0	0.24	0.00	-0.24	NM	NM	--
<i>Average</i>	<i>5.6</i>	<i>6.1</i>	<i>0.5</i>	<i>5.2</i>	<i>6.0</i>	<i>0.8</i>	<i>157.9</i>	<i>228.9</i>	<i>71.0</i>	<i>22.1</i>	<i>38.8</i>	<i>17.0</i>	<i>4.9</i>	<i>1.8</i>	<i>-3.1</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>5.4</i>	<i>6.2</i>	<i>0.8</i>	<i>4.8</i>	<i>6.0</i>	<i>1.2</i>	<i>127.3</i>	<i>130.3</i>	<i>3.0</i>	<i>23.2</i>	<i>23.5</i>	<i>1.0</i>	<i>3.5</i>	<i>0.6</i>	<i>-2.9</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 5 (September - October 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
9/7/2021	5.4	5.5	0.1	4.9	5.7	0.8	86	101	15	24	24	0	1.09	0.48	-0.61	0	0	0
9/13/2021	NM	5.3	--	NM	6.2	--	NM	82	--	NM	27	--	NM	0.71	--	NM	0	--
9/14/2021	6.8	7.5	0.7	5.7	5.3	-0.4	85	90	5	26	26	0	0.42	1.67	1.30	0	0	0
9/20/2021	4.9	6.3	1.4	4.7	5.5	0.8	85	84	-1	26	25	-1	1.26	0.61	-0.70	0	0	0
9/23/2021	5.9	5.8	-0.1	6.8	6.9	0.1	107	104	-3	28	28	0	51.60	3.77	-47.80	0	0	0
10/11/2021	3.5	6.4	2.9	6.4	6.6	0.2	85	127	42	21	21	0	172.00	8.89	-163.10	0	0	0
10/15/2021	7.4	7.2	-0.2	6.2	5.9	-0.3	81	113	32	25	25	0	116.00	12.50	-103.50	0	0	0
10/18/2021	5.1	1.9	-3.2	5.0	7.9	2.9	83	87	4	20	21	1	16.15	1.11	-15.10	NM	NM	--
10/26/2021	9.1	8.6	-0.5	5.5	6.8	1.3	86	153	67	16	15	-1	47.17	0.86	-46.30	NM	NM	--
<i>Average</i>	6.2	6.2	0.0	5.7	6.3	0.6	84.3	100.4	16.1	23.4	23.6	0.2	51.5	4.4	-47.1	0.0	0.0	0.0
<i>Median</i>	5.9	6.4	0.5	5.7	6.1	0.4	85.3	95.5	10.2	24.3	24.5	0.2	47.2	1.4	-45.8	0.0	0.0	0.0

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 5 (September - October 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

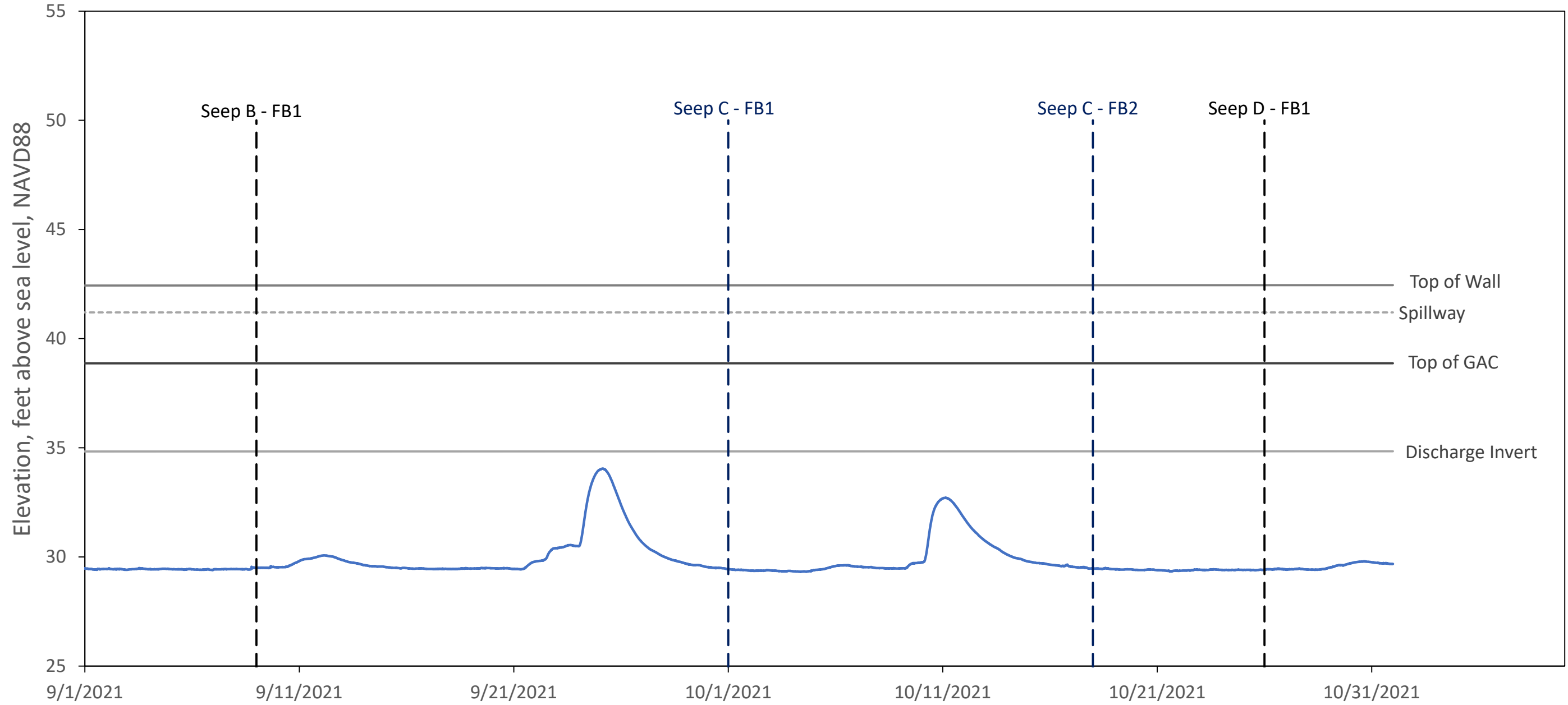
Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference
9/7/2021	2.1	4.6	2.5	4.0	4.8	0.8	146	152	6	22	23	1	4.55	0.36	-4.19	0	0	0
9/13/2021	5.6	5.1	-0.5	4.0	4.8	0.8	154	126	-28	25	22	-3	8.53	0.87	-7.66	0	0	0
9/14/2021	7.5	7.5	0.0	3.7	4.6	0.9	166	130	-36	27	27	0	29.20	0.47	-28.73	0	0	0
9/20/2021	4.7	6.8	2.1	4.0	4.6	0.6	144	126	-18	23	23	0	13.12	1.74	-11.38	0	0	0
9/23/2021	5.4	1.7	-3.7	5.2	7.7	2.5	127	642	515	24	24	0	17.50	0.54	-16.96	0	0	0
10/1/2021	7.9	7.9	0.0	3.9	4.7	0.8	159	136	-23	29	25	-4	2.44	1.42	-1.02	NM	NM	--
10/11/2021	4.8	7.1	2.3	7.1	9.1	2.0	153	171	18	20	21	1	7.05	0.97	-6.08	0	0	0
10/15/2021	7.7	7.2	-0.5	4.1	4.4	0.3	296	158	-138	22	24	2	0.65	0.00	-0.65	0	0	0
10/26/2021	9.1	9.0	-0.1	6.4	5.7	-0.7	136	132	-4	14	13	-1	78.35	2.39	-75.96	NM	NM	--
<i>Average</i>	<i>6.1</i>	<i>5.9</i>	<i>-0.2</i>	<i>4.7</i>	<i>5.7</i>	<i>1.0</i>	<i>158.6</i>	<i>193.1</i>	<i>34.5</i>	<i>22.8</i>	<i>22.3</i>	<i>-0.5</i>	<i>17.7</i>	<i>1.0</i>	<i>-16.7</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
<i>Median</i>	<i>5.8</i>	<i>6.9</i>	<i>1.1</i>	<i>4.1</i>	<i>4.8</i>	<i>0.7</i>	<i>149.4</i>	<i>143.9</i>	<i>-5.5</i>	<i>22.8</i>	<i>23.1</i>	<i>0.3</i>	<i>10.8</i>	<i>0.9</i>	<i>-9.9</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

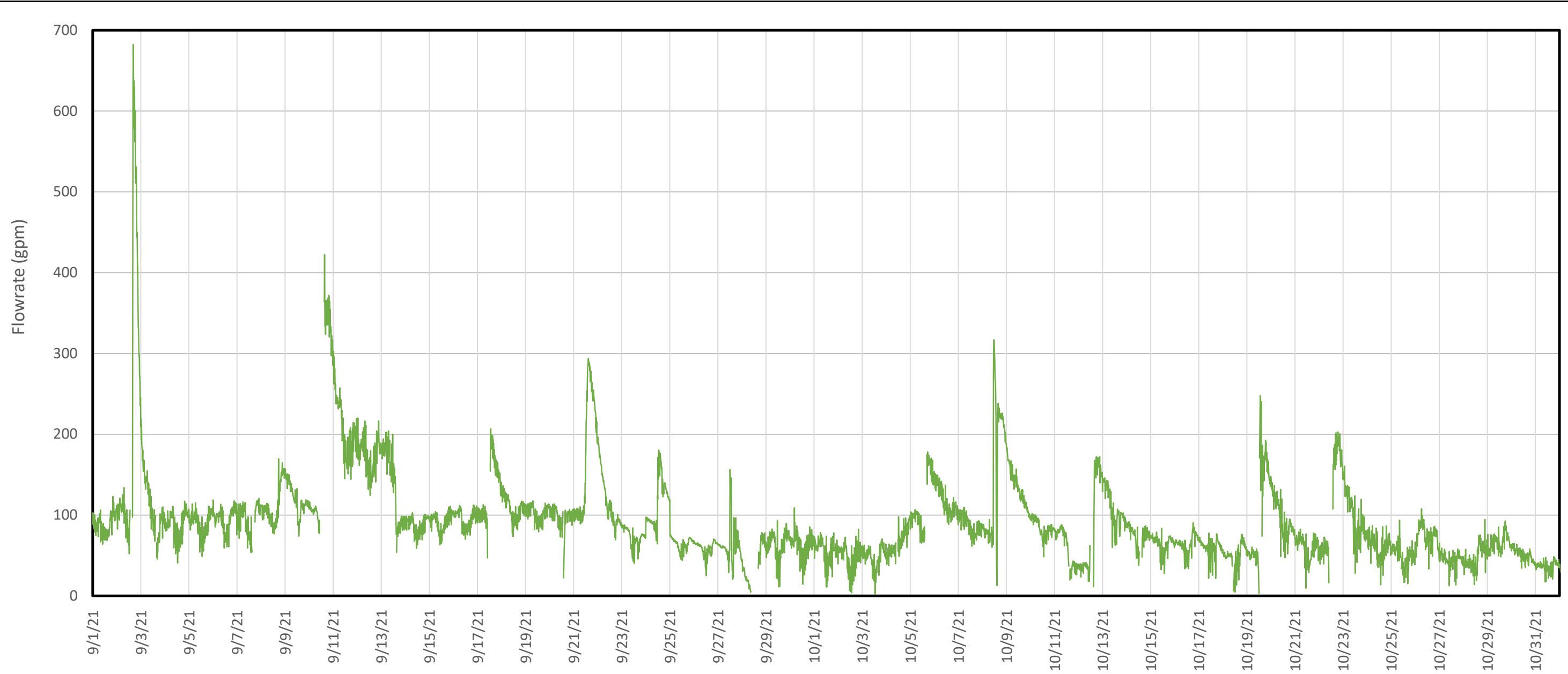
River Elevation During Flow Through Cell Operation (09/01/2021 through 10/31/2021)



**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 consultants	Geosyntec Consultants of NC, P.C. NC License No.: C. 3500 and C. 295
Raleigh, NC	November 2021
<b>Figure 1</b>	



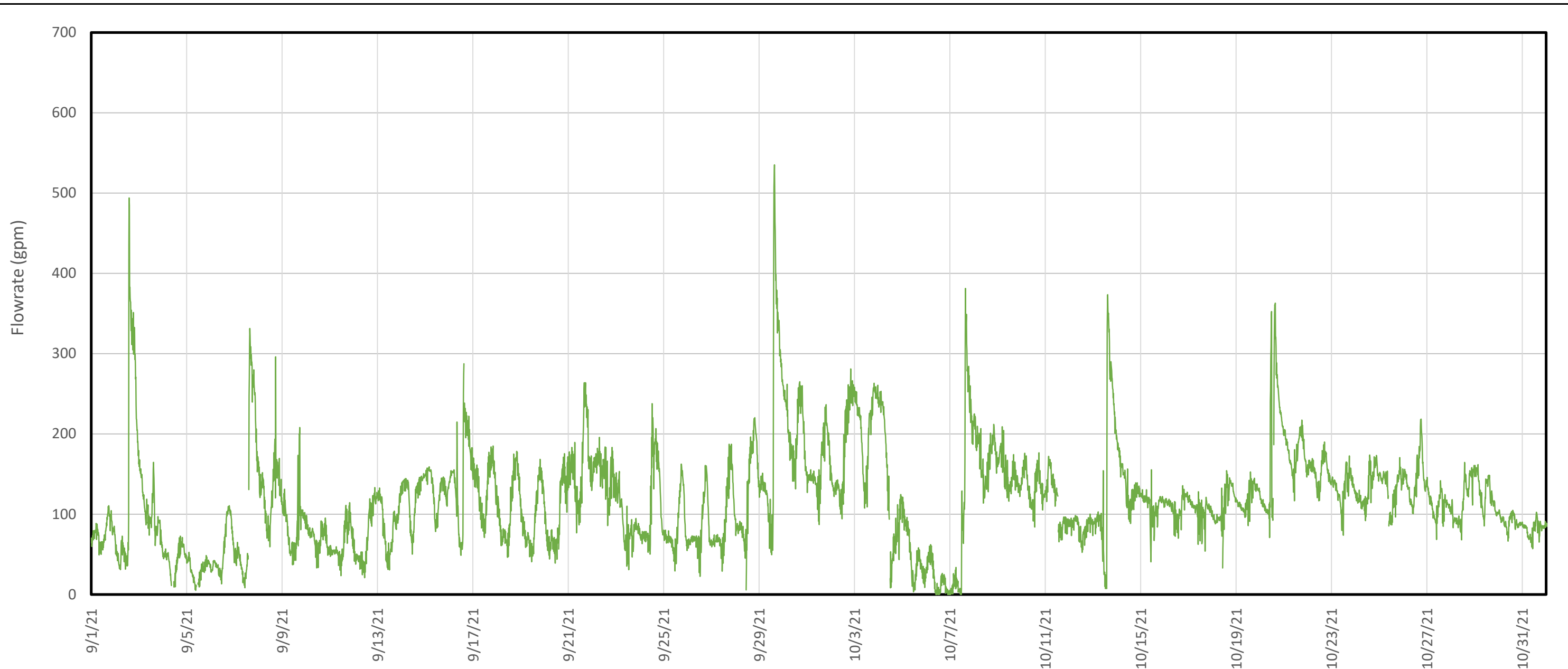
Legend  
— Measured Discharge Flowrate

**Flowrate Statistics (gpm)**

	(09/01 - 10/31)	Since Startup
Median	81	112
95 <sup>th</sup> percentile	190	295
Max	682	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          (Sep - Oct 2021) - Seep A</b> Chemours Fayetteville Works Fayetteville, North Carolina		<b>Figure          2a</b>
<b>Geosyntec</b> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295	
Raleigh, NC	November 2021	



**Legend**

— Measured Discharge Flowrate

**Notes:**

gpm - gallons per minute

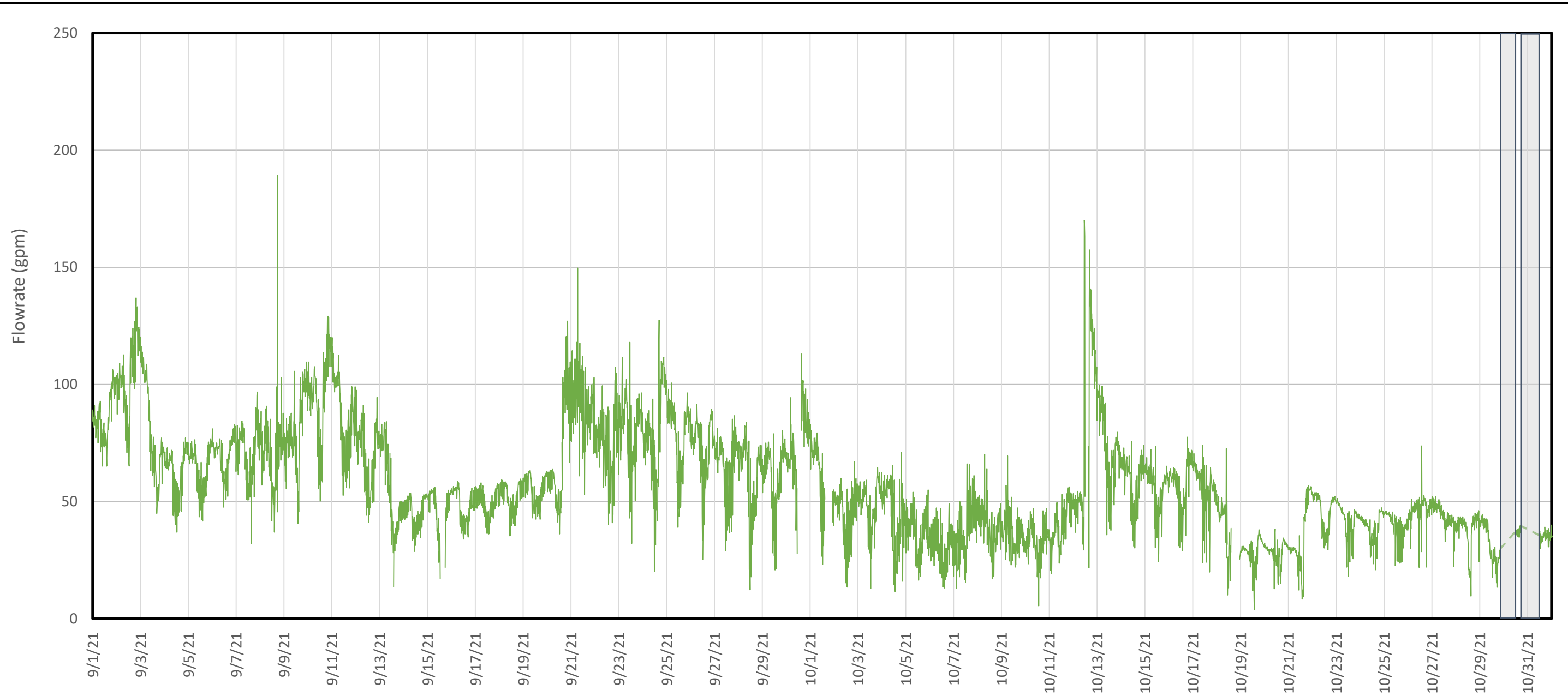
Figure 2b depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.

**Flowrate Statistics (gpm)**

	(09/01 - 10/31)	Since Startup
Median	113	106
95 <sup>th</sup> percentile	236	242
Max	535	1,153

<b>Measured Discharge Flowrate</b> <b>(Sep - Oct 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	November 2021

**Figure 2b**



Legend  
 — Measured Discharge Flowrate  
 - - Imputed Discharge Flowrate

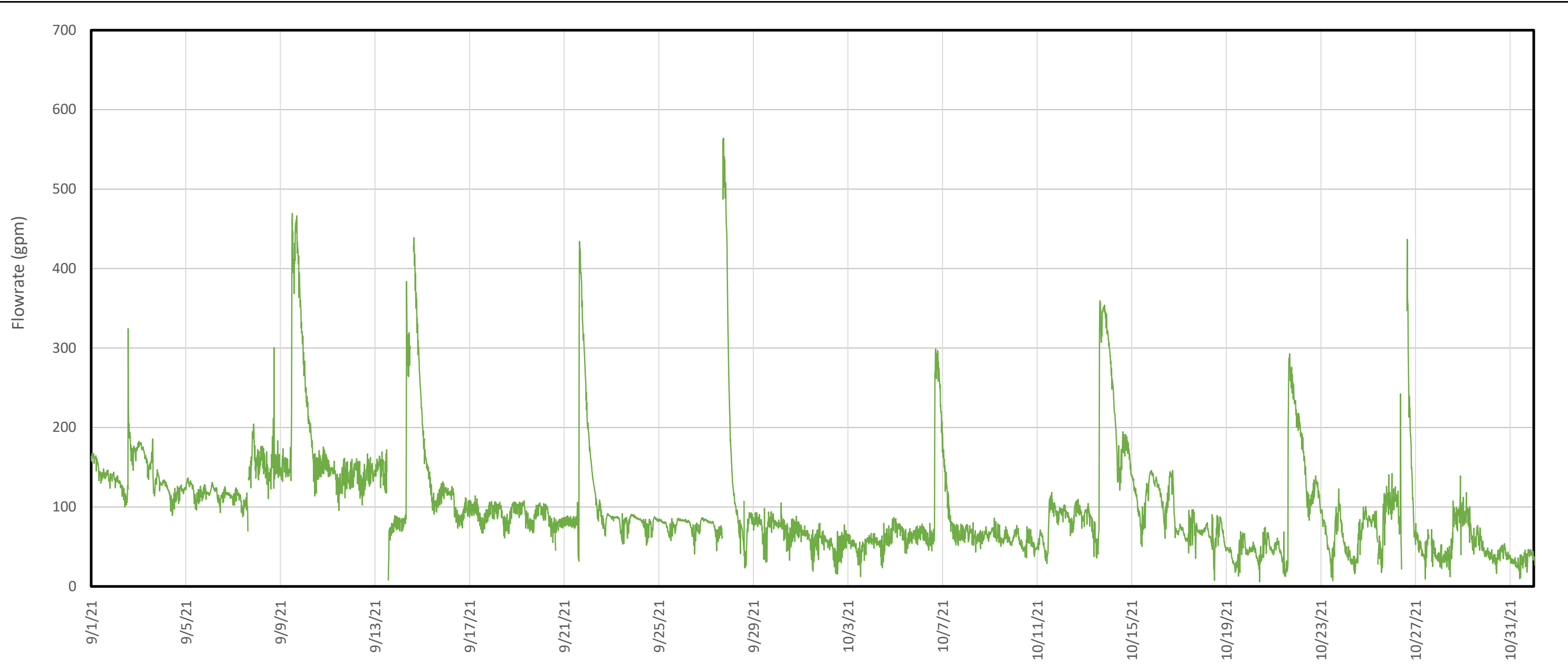
□ Transducer Data Gap

**Flowrate Statistics (gpm)**

	(09/01 - 10/31)	Since Startup
Median	53	81
95 <sup>th</sup> percentile	101	160
Max	189	372

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. Effluent transducer data from October 25, 10:15 through October 31, 23:59 was not retrieved. Telemetry data collected at the Seep was used for this time period. Telemetry data from 10/29/2021 20:45 to 10/30/2021 13:00 and 10/30/2021 16:45 to 10/31/2021 12:00 was not retrieved due to intermittent satellite transmission issues. 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 using the measured flowrates before and after the data gap. Section 3 describes the gaps in transducer data record.

<b>Measured Discharge Flowrate          (Sep - Oct 2021) - 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	November 2021
<b>Figure          2c</b>	



Legend  
— Measured Discharge Flowrate

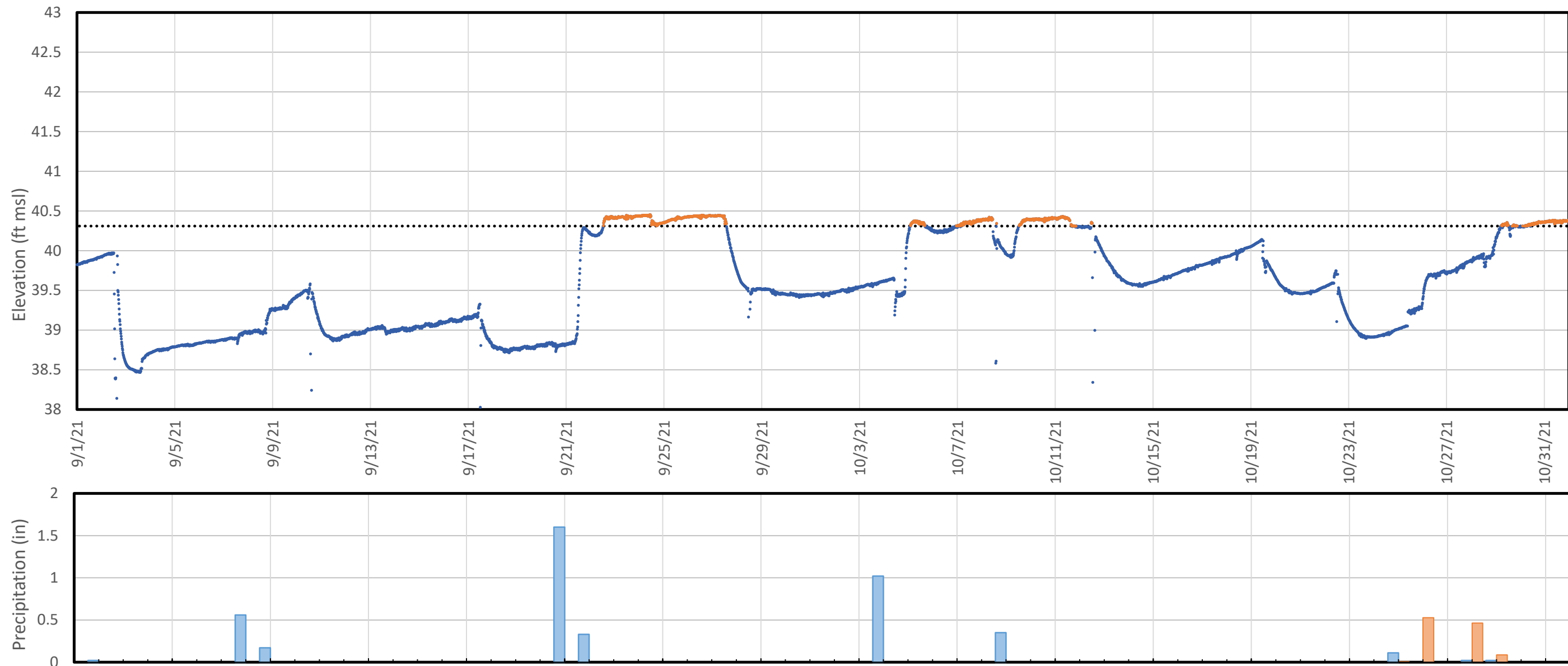
**Flowrate Statistics (gpm)**

	(09/01 - 10/31)	Since Startup
Median	84	118
95 <sup>th</sup> percentile	231	311
Max	564	763

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

<b>Measured Discharge Flowrate          (Sep - Oct 2021) - Seep D</b> Chemours Fayetteville Works Fayetteville, North Carolina		<b>Figure          2d</b>
Geosyntec consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>	
Raleigh, NC	November 2021	





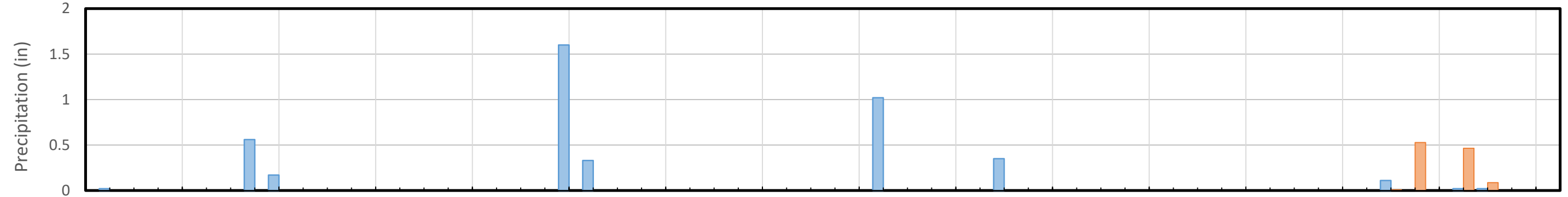
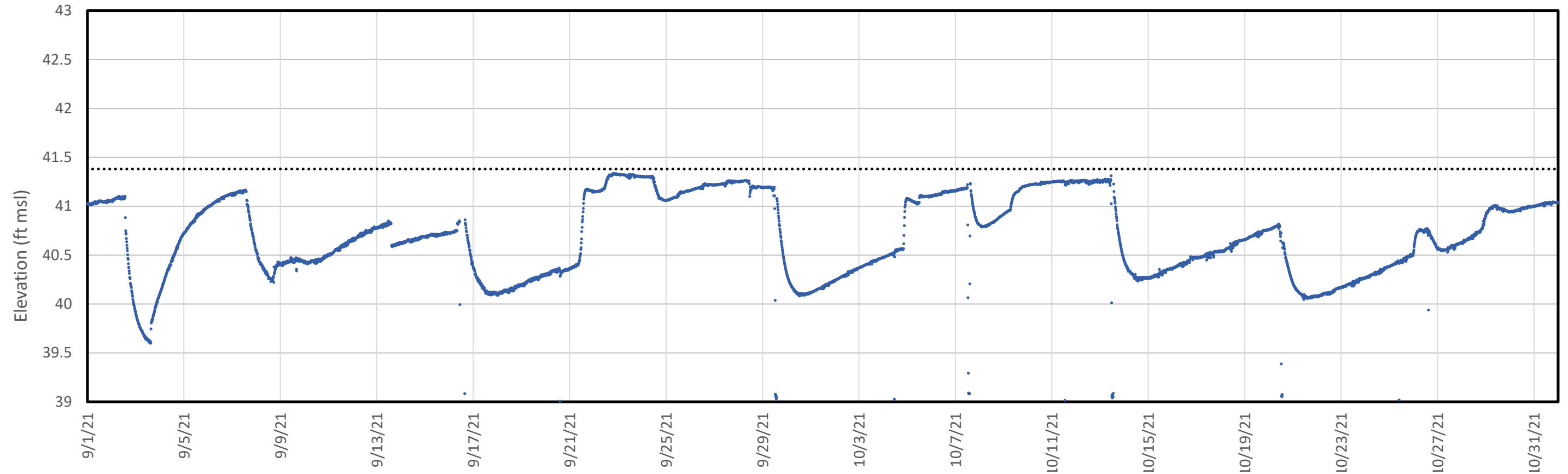
**Legend**

- Influent Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- ◆◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)
- Telemetry 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 and telemetry rain gauge installed at Seep A. Telemetry data became available on October 10, 2021.

<b>Influent Water Elevation and Bypass Flow (Sep - Oct 2021) - Seep A</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<b>Figure</b>  <b>3a</b>
Raleigh, NC	November 2021



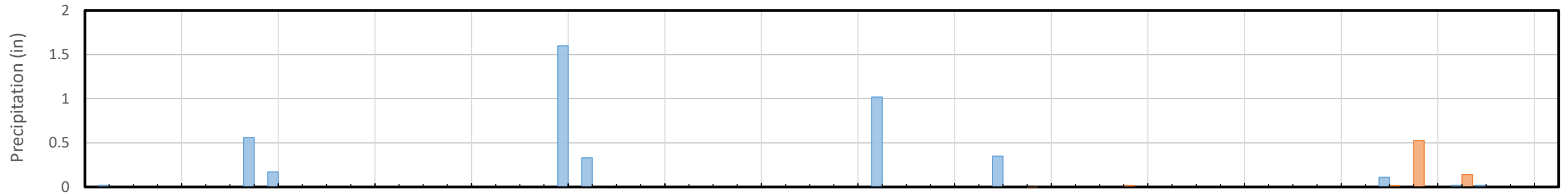
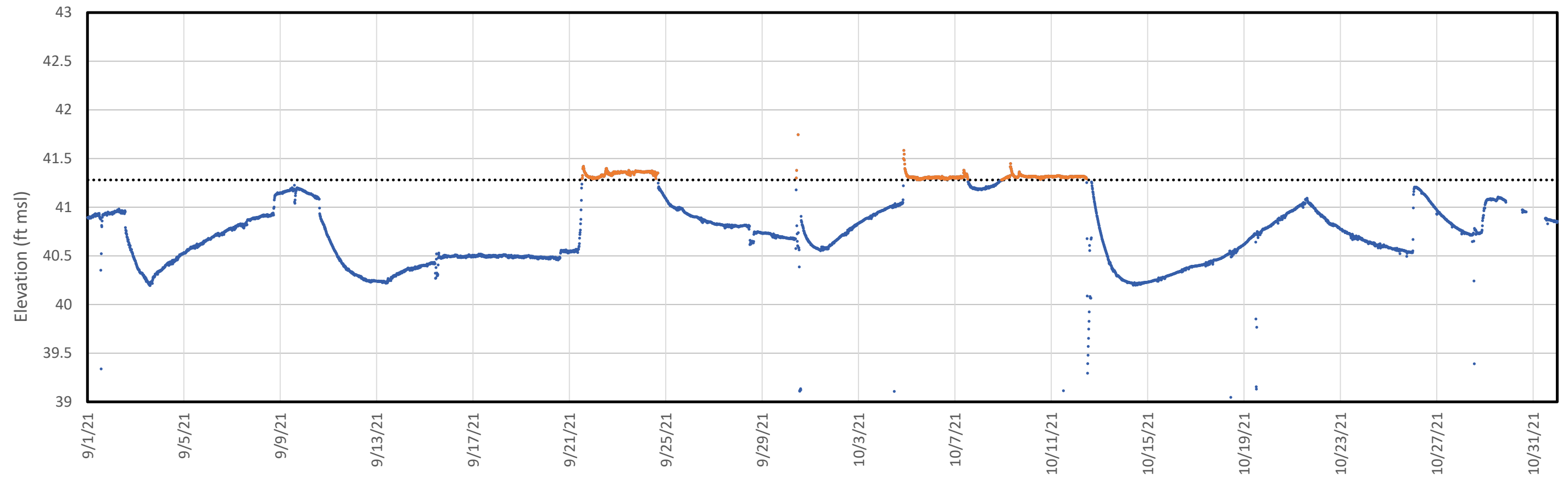
Legend

- Influent Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- ◆◆◆ Bypass Spillway Elevation

- USGS Precipitation (daily totals)
- Telemetry 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 and telemetry rain gauge installed at Seep A. Telemetry data became available on October 10, 2021. Seep B telemetry equipment is expected to be installed in November 2021.

<b>Influent Water Elevation and Bypass Flow (Sep - Oct 2021) - Seep B</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec <sup>®</sup> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	November 2021
<b>Figure 3b</b>	



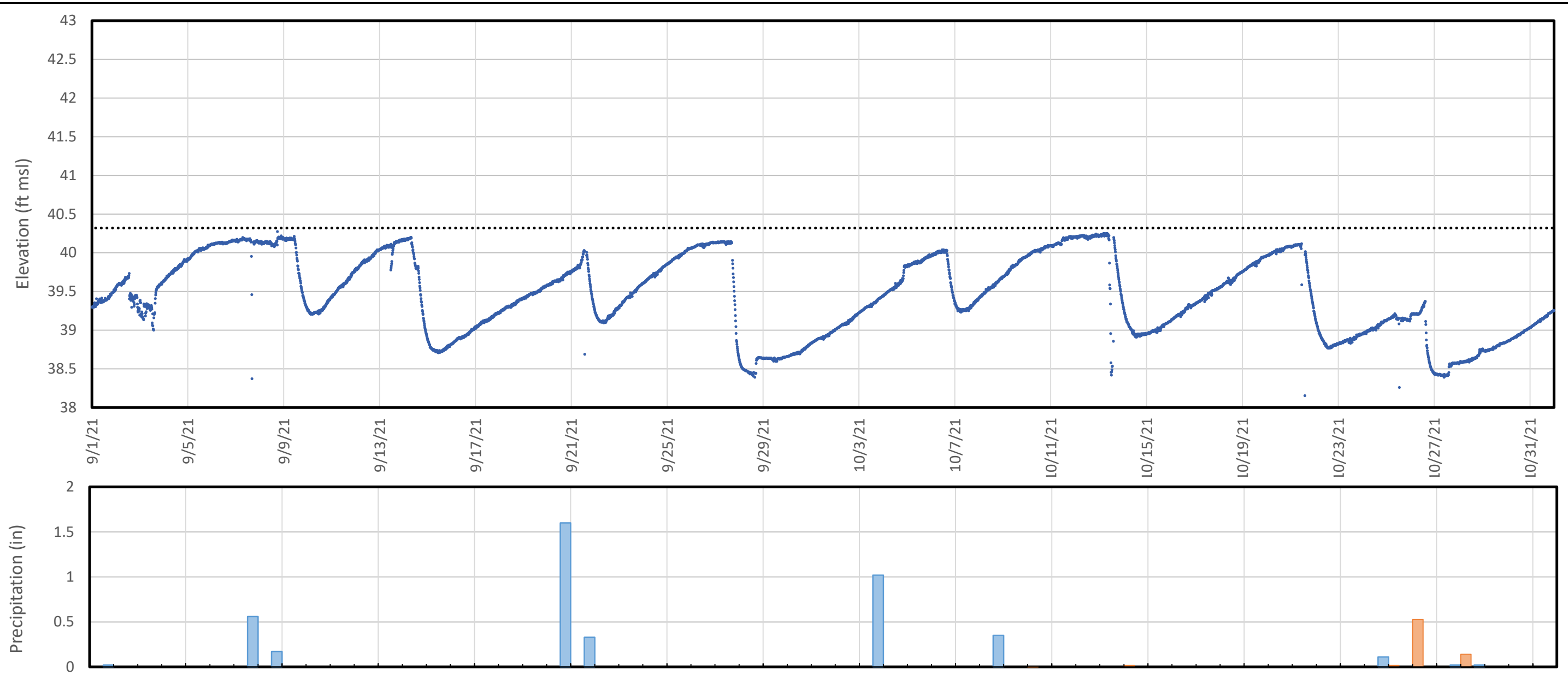
Legend

- Inflow Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- ◆◆◆ Bypass Spillway Elevation
- USGS Precipitation (daily totals)
- Telemetry 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 and telemetry rain gauge installed at Seep C. Telemetry data became available on October 10, 2021.

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



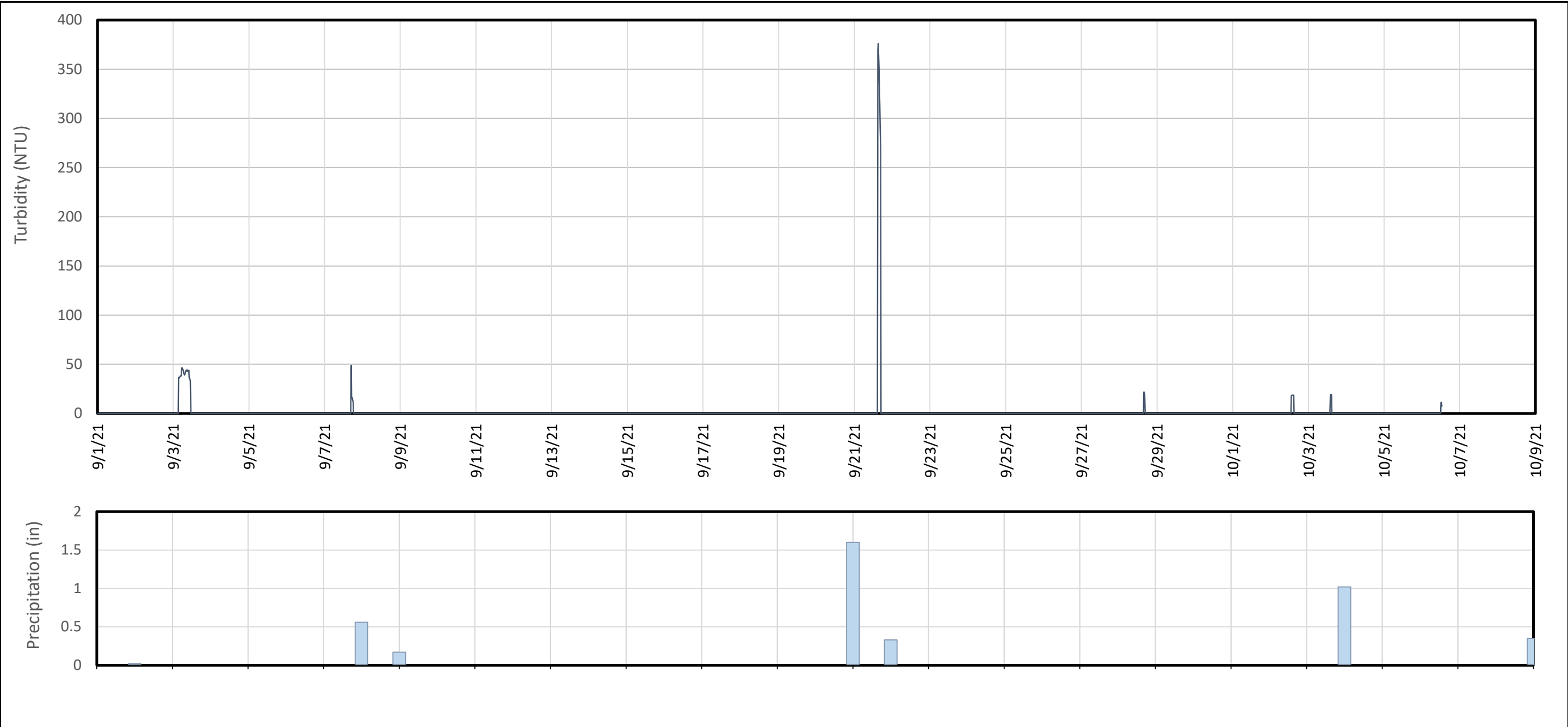
Legend

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

Notes:

Figure 3d 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 and telemetry rain gauge installed at Seep C. Telemetry data became available on October 10, 2021. Seep D telemetry equipment is expected to be installed in November 2021.

<b>Influent Water Elevation and Bypass Flow (Sep - Oct 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	November 2021
<b>Figure 3d</b>	



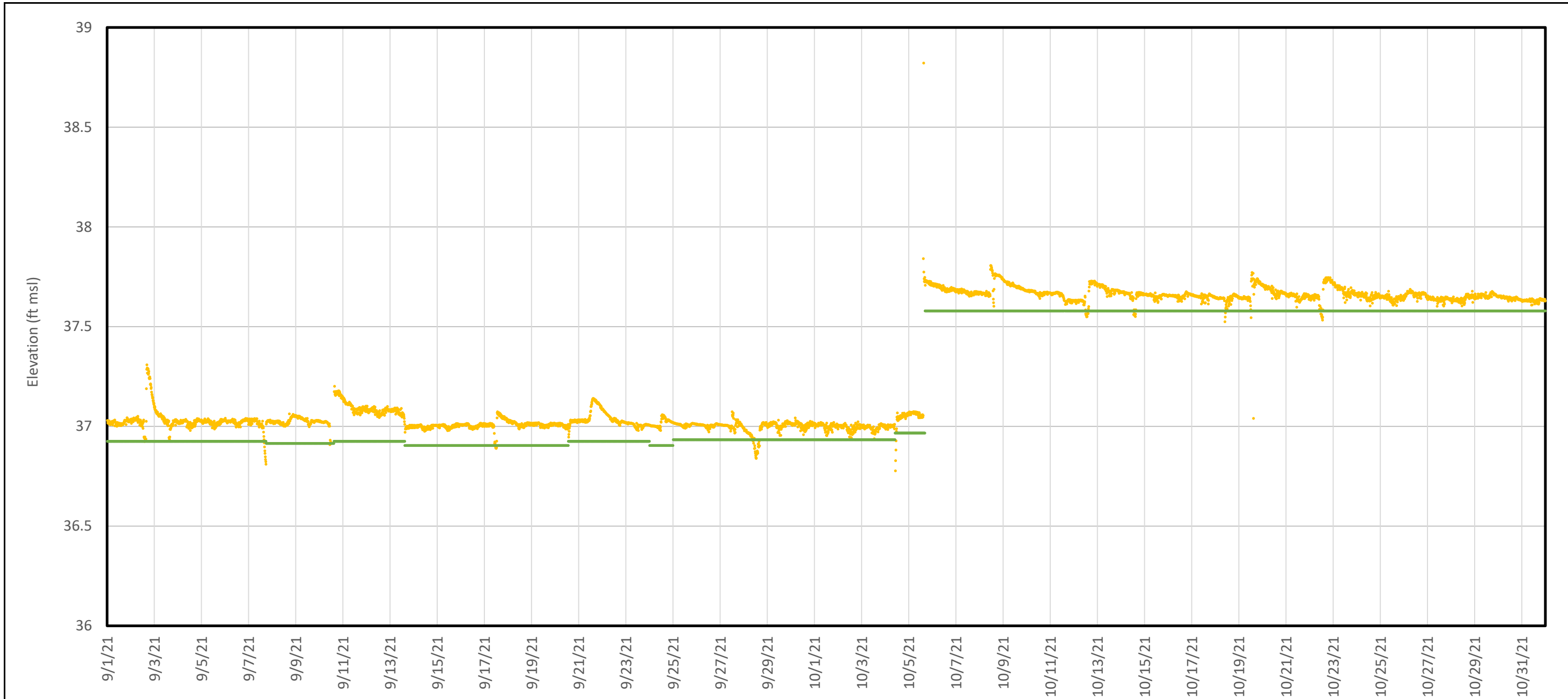
**Legend**  
 — Turbidity  
 ■ Precipitation (daily totals)

**Notes**  
 NTU - Nephelometric Turbidity Unit  
 Turbidity data logged with a AquaTROLL Turbidity Sensor placed in the Influent Stilling Basin.

<b>Seep D Turbidity Logging and Precipitation (Sep - Nov 2021)</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	November 2021
<b>Figure 4</b>	

# APPENDIX A

## Transducer Data Reduction

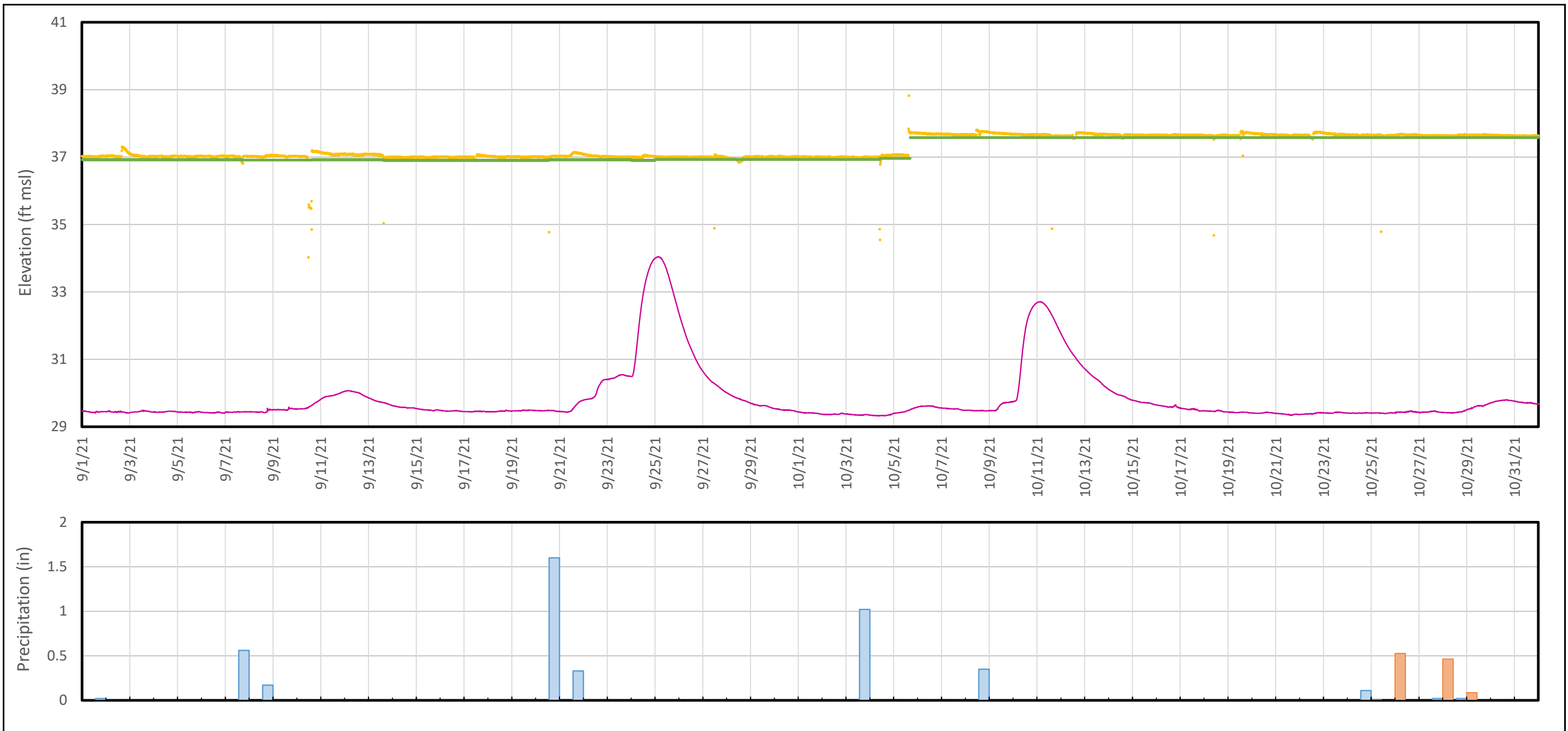


**Legend**  
— Discharge Basin Elevation  
— Weir 3 Elevation

**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	
Geosyntec <sup>®</sup> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	November 2021

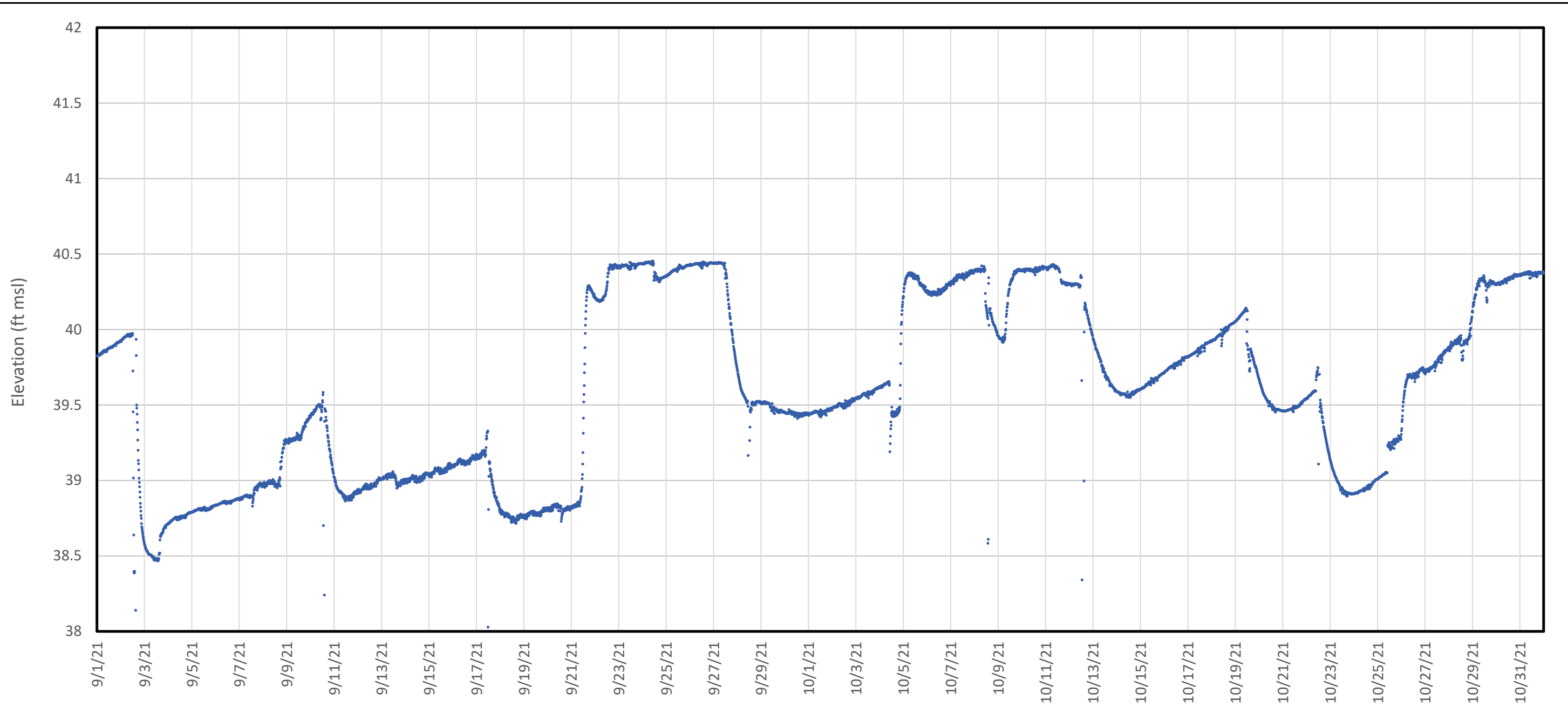
**Figure  
A1-A**



**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 from the telemetry rain gauge installed at Seep A, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

<b>Discharge Basin Water Elevation and External Forcings - Seep A</b>		<b>Figure A2-A</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	November 2021	





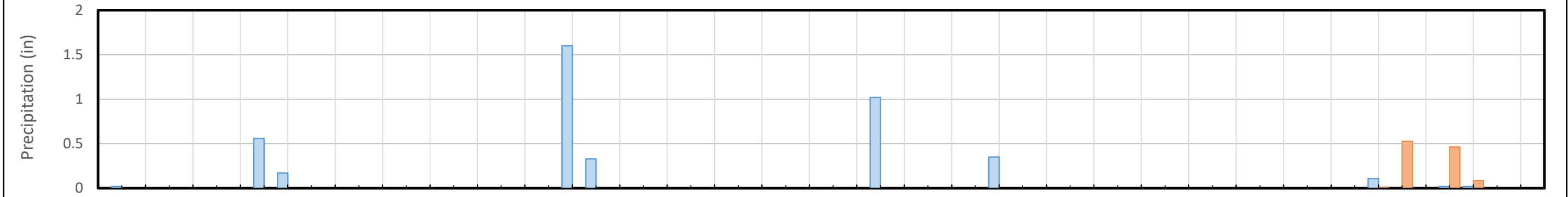
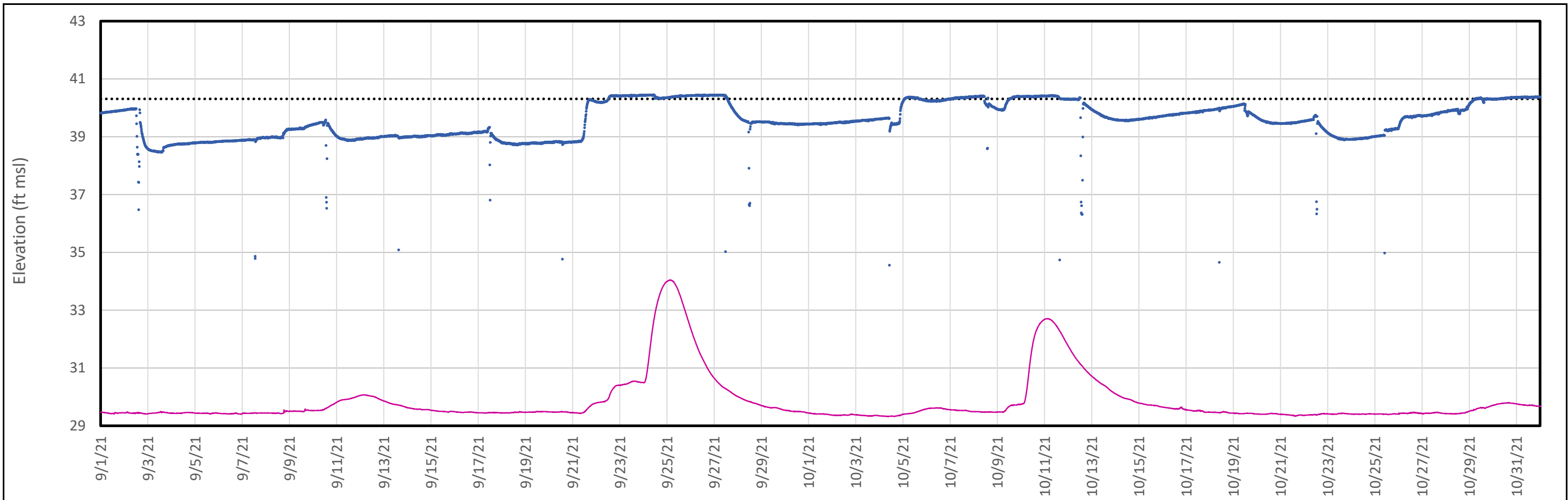
Legend

— Inlet Chamber/Impoundment Elevation

Notes:

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

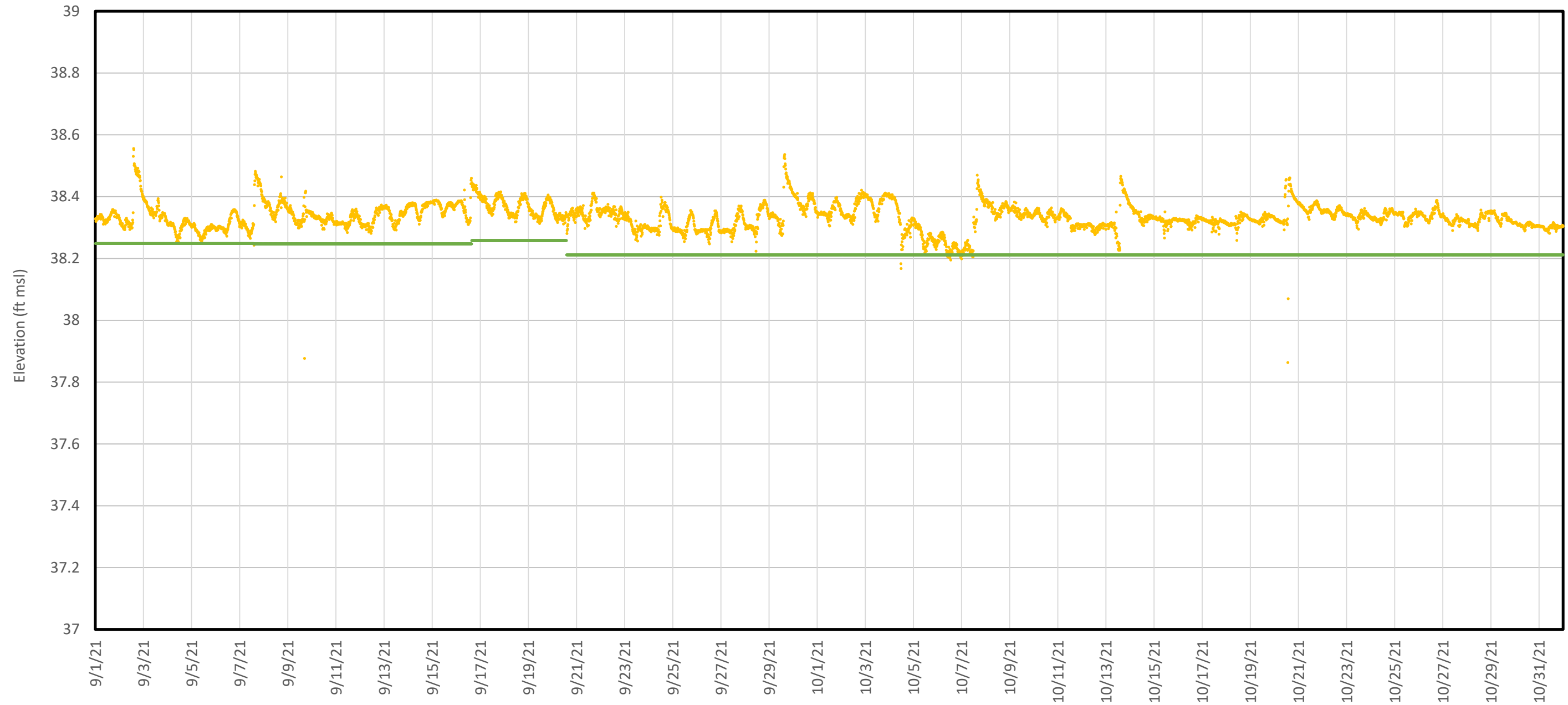
<b>Inlet Chamber Water Elevation - Seep A</b> Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	November 2021
<b>Figure A3-A</b>	



- Legend**
- Inlet Chamber Water Elevation
  - River Stage
  - ◆◆◆ Bypass Spillway Elevation
  - USGS Precipitation (daily totals)
  - Telemetry 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-A compares the available transducer data to precipitation from the telemetry rain gauge installed at Seep A, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

<b>Inlet Chamber Water Elevation and External Forcings - Seep A</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	November 2021
<b>Figure A4-A</b>	

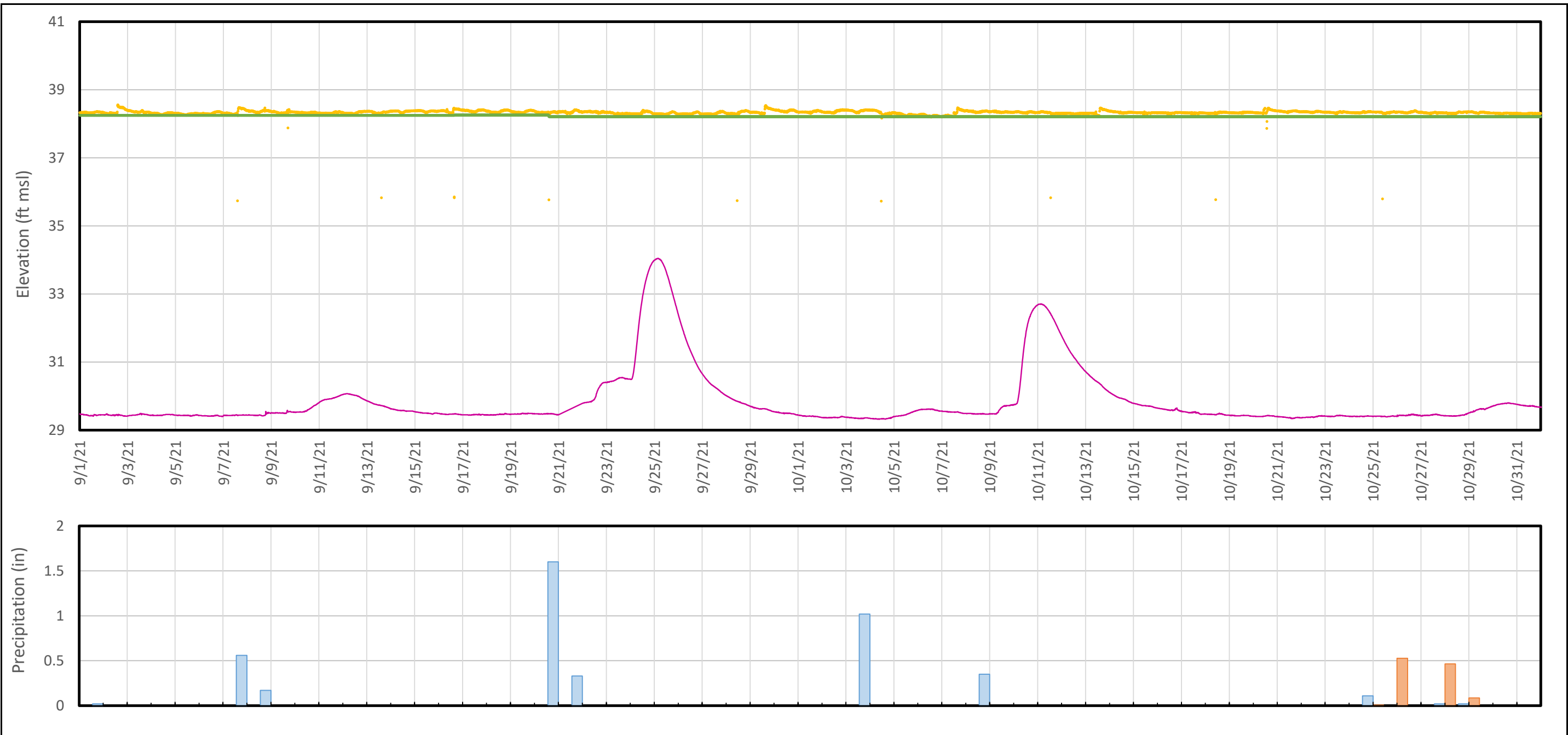


**Legend**  
— Discharge Basin Elevation  
— Weir 3 Elevation

**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	
Geosyntec <sup>®</sup> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	November 2021

**Figure  
A1-B**

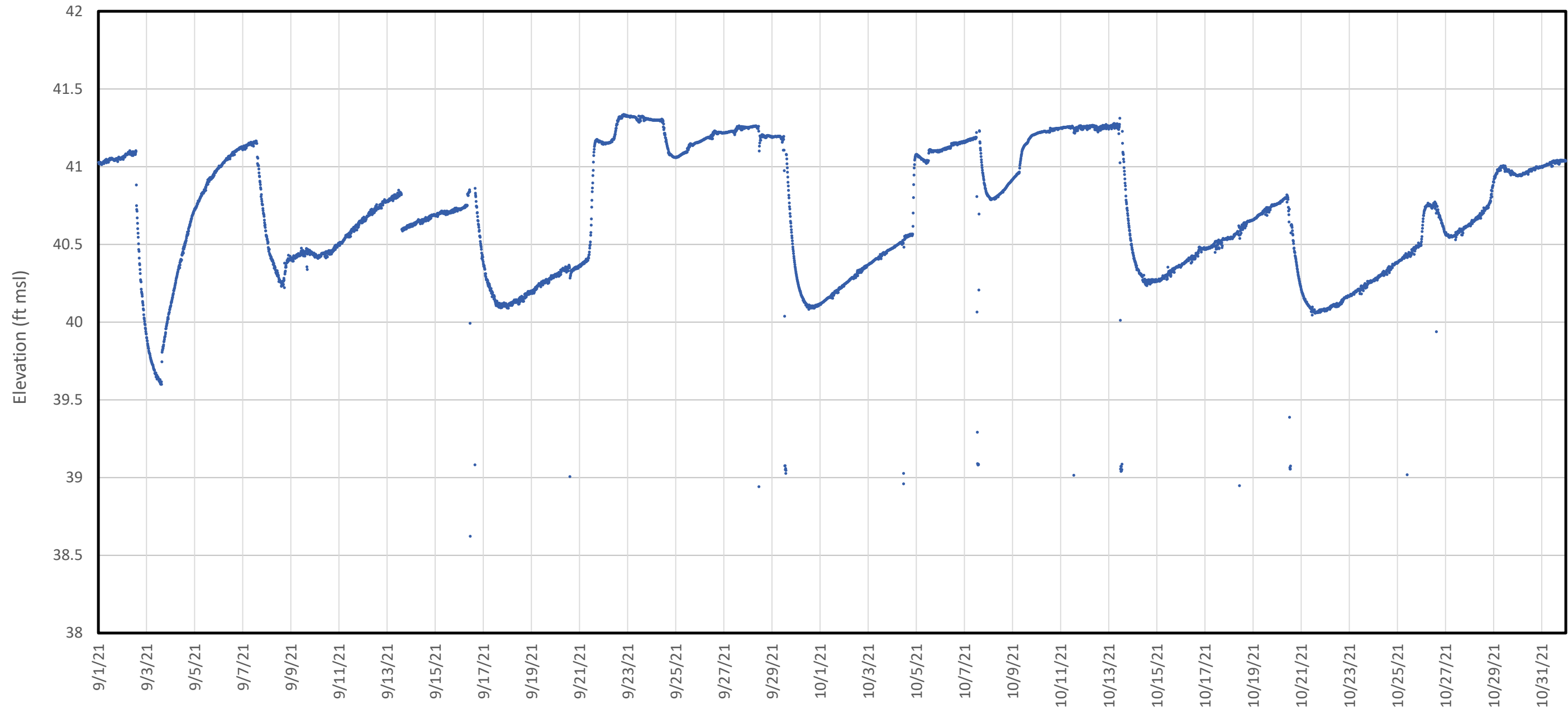


**Legend**

- Discharge Basin Water Elevation
- River Stage
- Weir 3 Elevation
- █ USGS Precipitation (daily totals)
- █ Telemetry 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 from the telemetry rain gauge installed at Seep A, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

<b>Discharge Basin 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	November 2021
<b>Figure A2-B</b>	

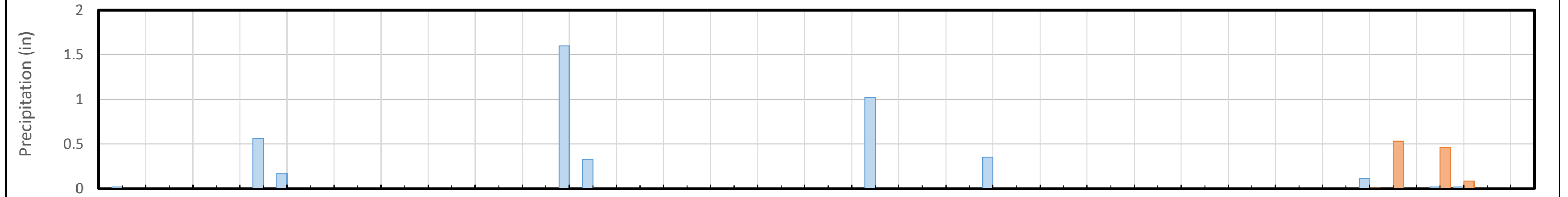
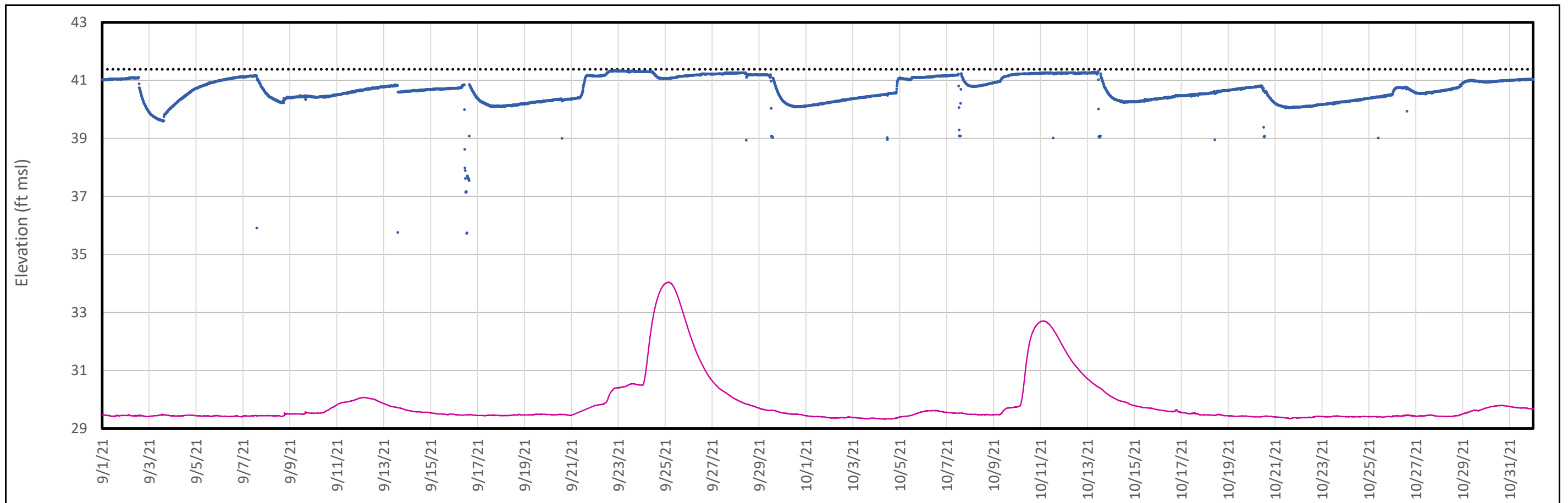


**Legend**  
 — Inlet Chamber/Impoundment Elevation

**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	
Geosyntec <sup>®</sup> consultants	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	November 2021

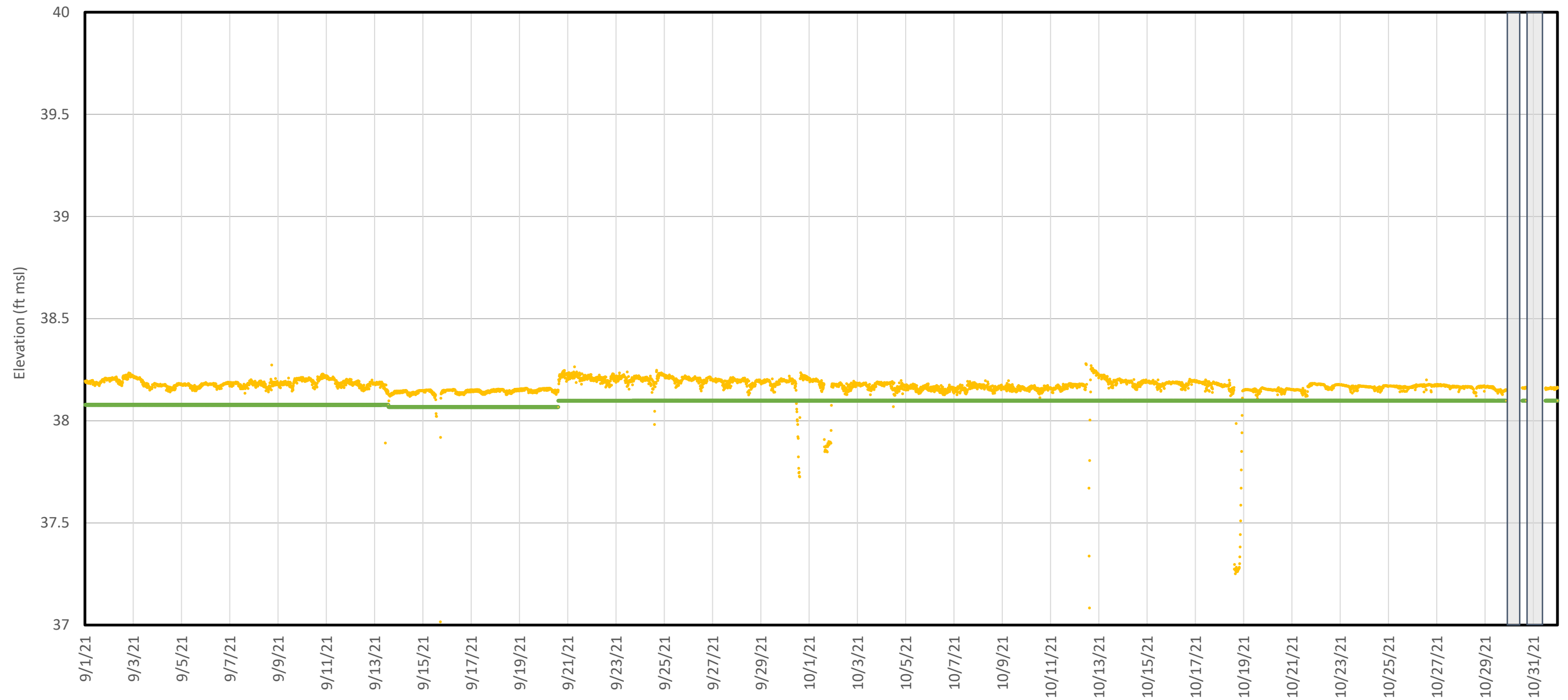
**Figure  
A3-B**



- Legend**
- Inlet Chamber Water Elevation
  - River Stage
  - ♦♦♦ Bypass Spillway Elevation
  - USGS Precipitation (daily totals)
  - Transducer 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 from the telemetry rain gauge installed at Seep A, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

<b>Inlet Chamber Water Elevation and External Forcings - Seep B</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	November 2021
<b>Figure A4-B</b>	



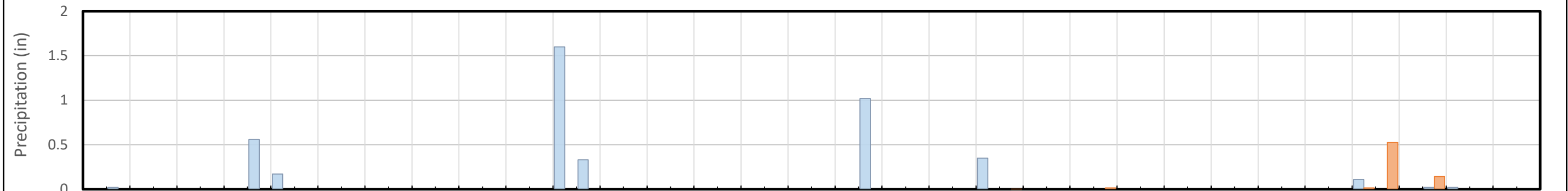
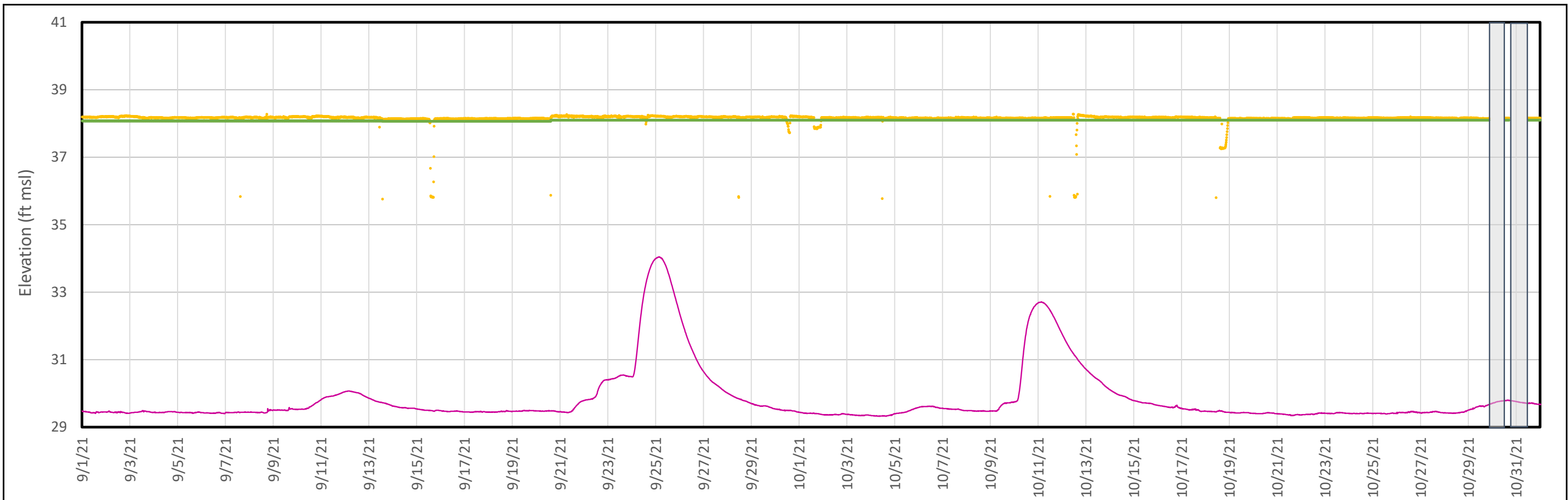
**Legend**

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

**Notes:**

Figure A1-C shows the discharge basin transducer data that was collected during the reporting period. Transducer data from October 29, 20:45 to October 30, 13:00 and October 30, 16:45 to October 31, 12:00 was not retrieved. Section 3 describes the gaps in transducer data record.

<b>Discharge Basin Water Elevation - Seep C</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	November 2021
<b>Figure A1-C</b>	

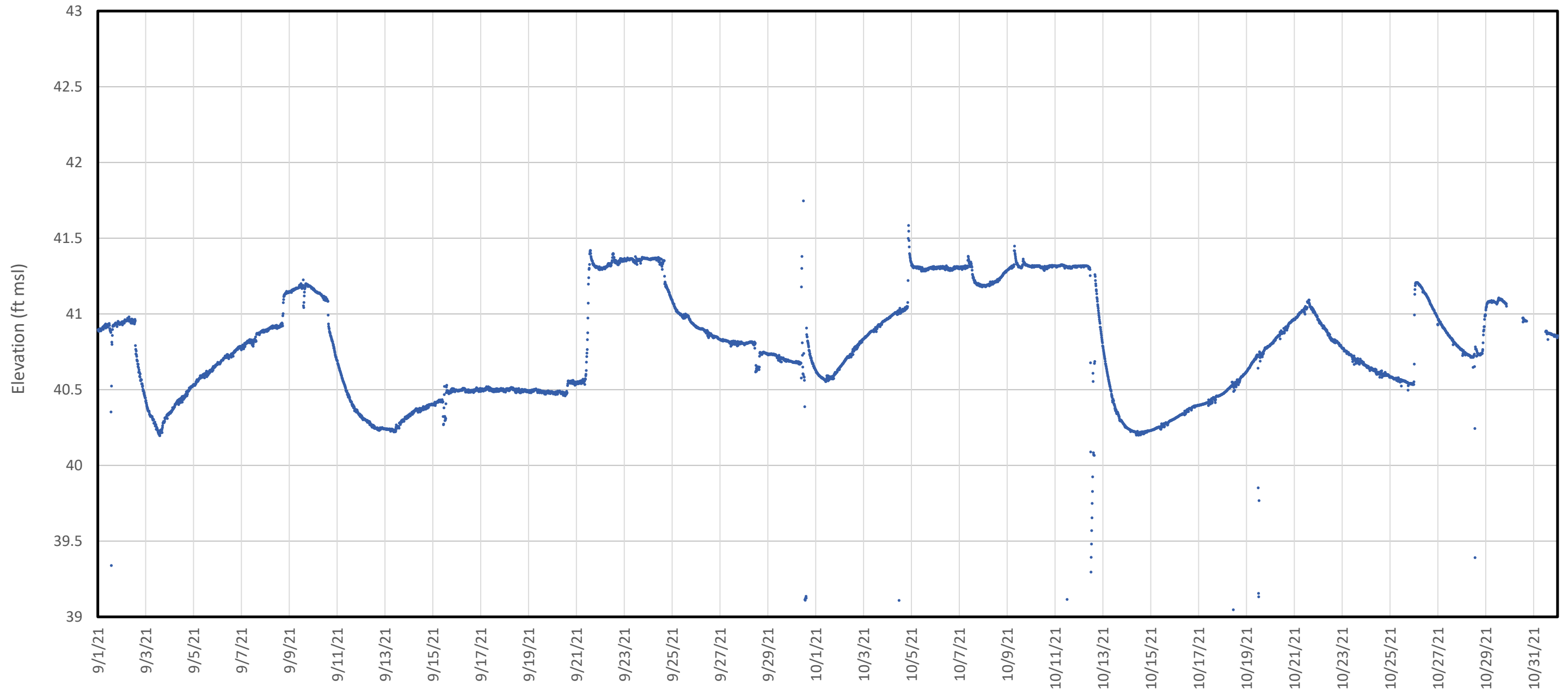


- Legend**
- Discharge Basin Water Elevation
  - River Stage
  - Weir 3 Elevation
  - Transducer Data Gap
  - USGS Precipitation (daily totals)
  - Telemetry Precipitation (daily totals)

**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 from the telemetry rain gauge installed at Seep C, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam. Transducer data from October 29, 20:45 to October 30, 13:00 and October 30, 16:45 to October 31, 12:00 was not retrieved. Section 3 describes the gaps in transducer data record.

<b>Discharge Basin Water Elevation and External Forcings - Seep C</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	November 2021
<b>Figure A2-C</b>	





Legend

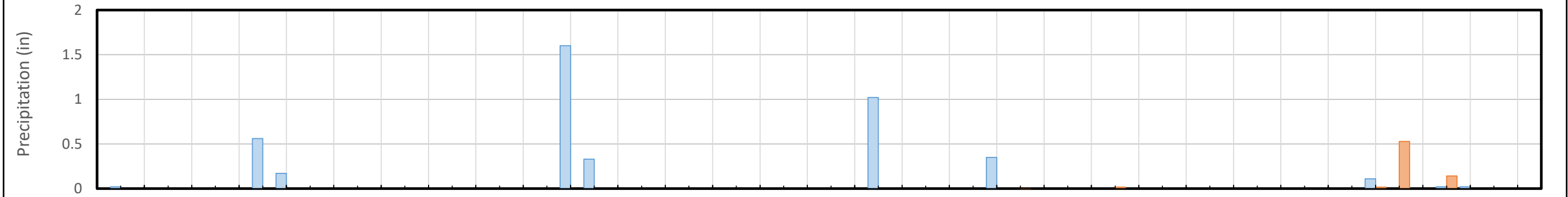
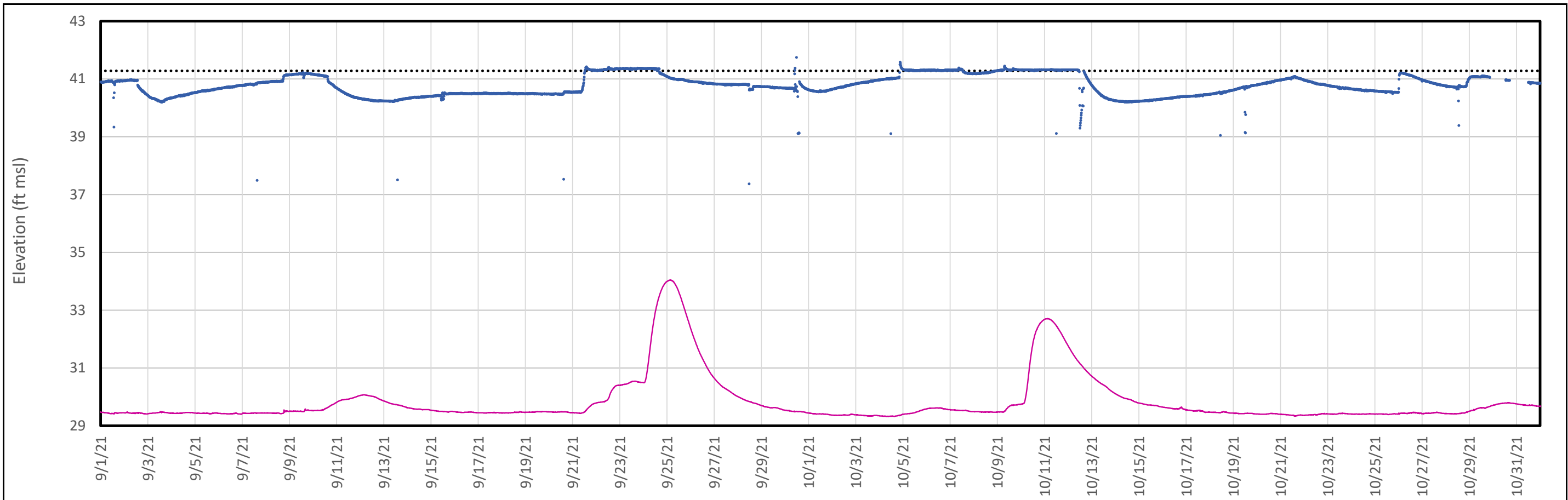
— Inlet Chamber/Impoundment Elevation

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	November 2021

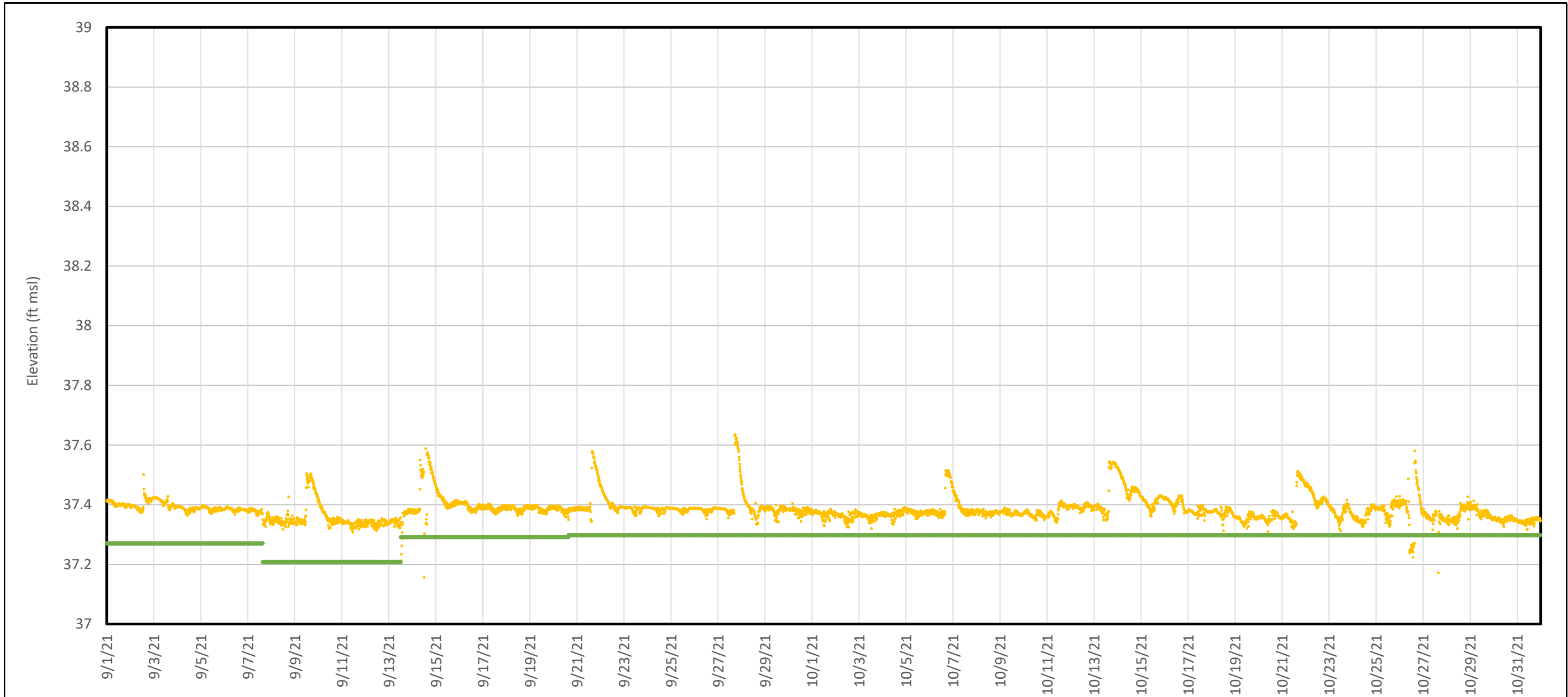
**Figure  
A3-C**



- Legend**
- Inlet Chamber Water Elevation
  - River Stage
  - ◆◆◆ Bypass Spillway Elevation
  - USGS Precipitation (daily totals)
  - Telemetry 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-C compares the available transducer data to precipitation from the telemetry rain gauge installed at Seep C, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

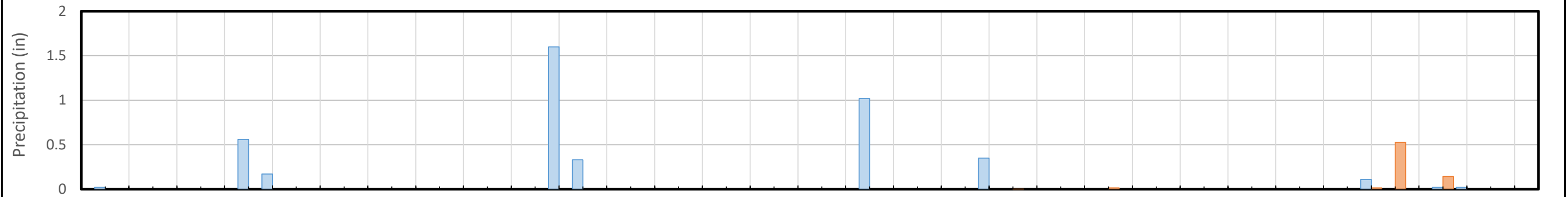
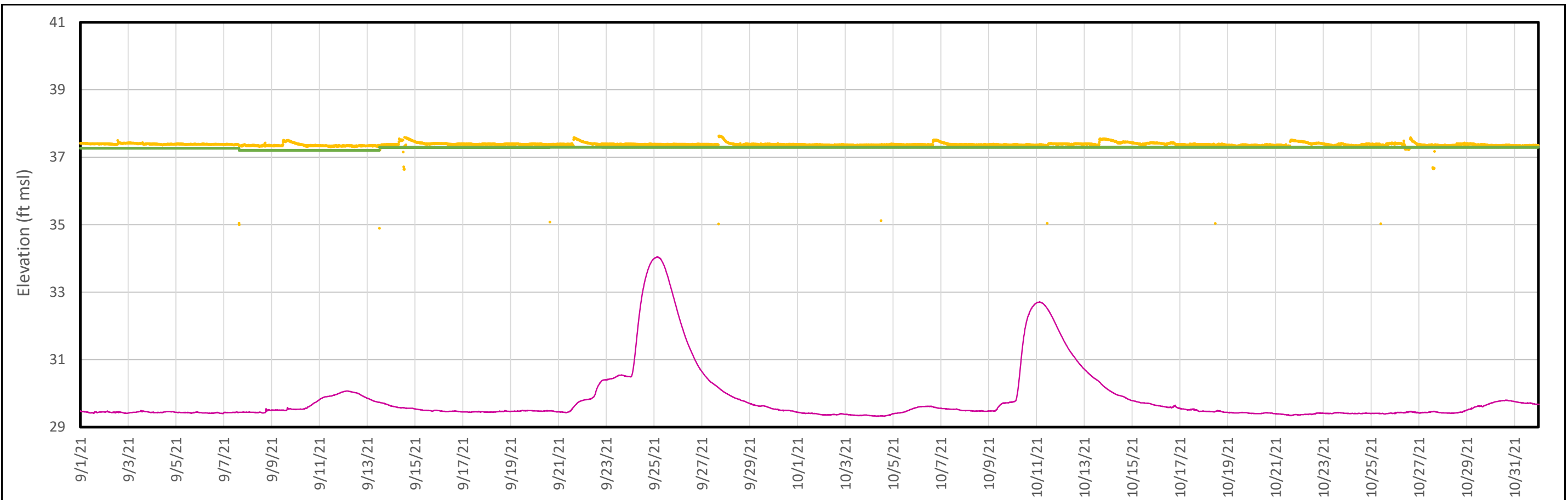
<b>Inlet Chamber Water Elevation and External Forcings - Seep C</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
<b>Geosyntec</b> <small>consultants</small>	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	November 2021
<b>Figure A4-C</b>	



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

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

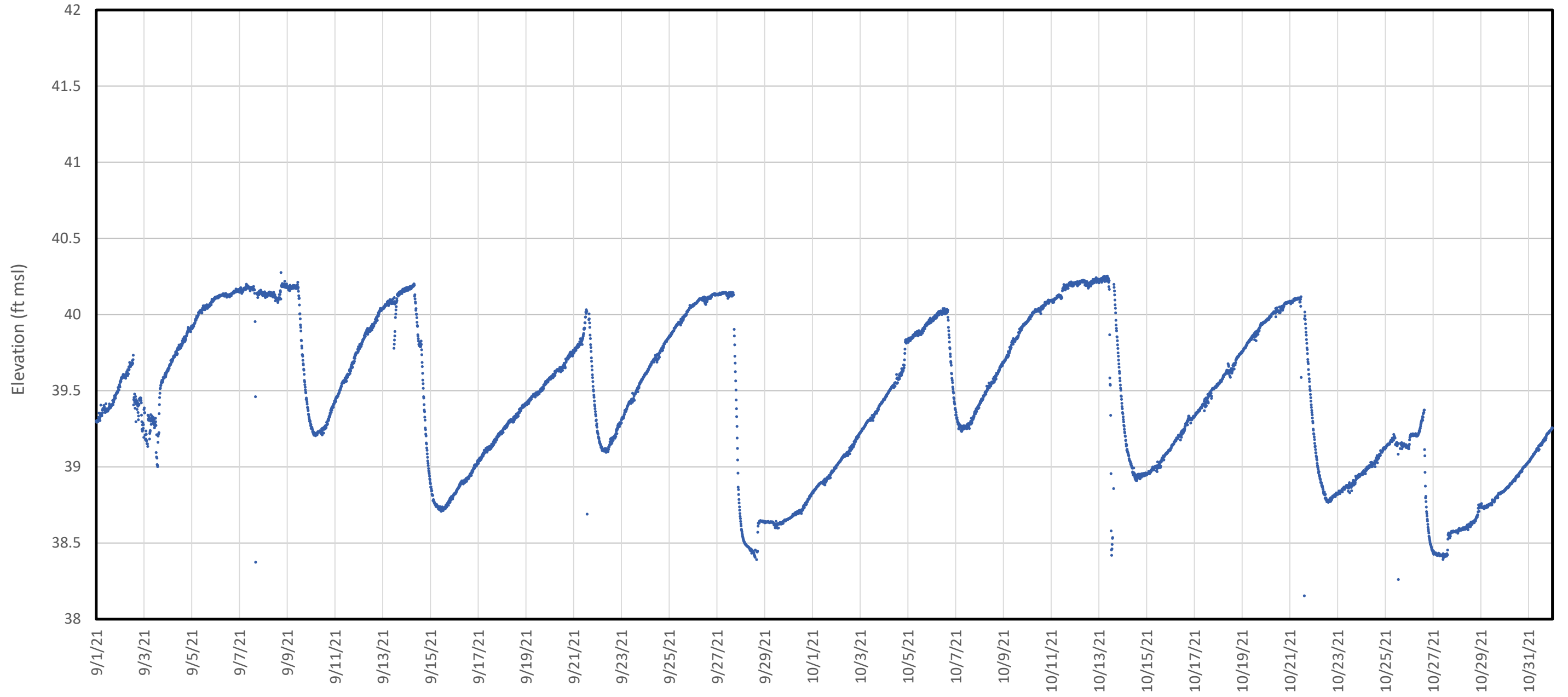
<b>Discharge Basin Water Elevation - Seep D</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec <sup>®</sup> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	November 2021
<b>Figure A1-D</b>	



- Legend**
- Discharge Basin Water Elevation
  - River Stage
  - Weir 3 Elevation
  - █ USGS Precipitation (daily totals)
  - █ Telemetry 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-D compares the available transducer data to precipitation from the telemetry rain gauge installed at Seep C, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

<b>Discharge Basin Water Elevation and External Forcings - Seep D</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	November 2021
<b>A2-D</b>	



Legend

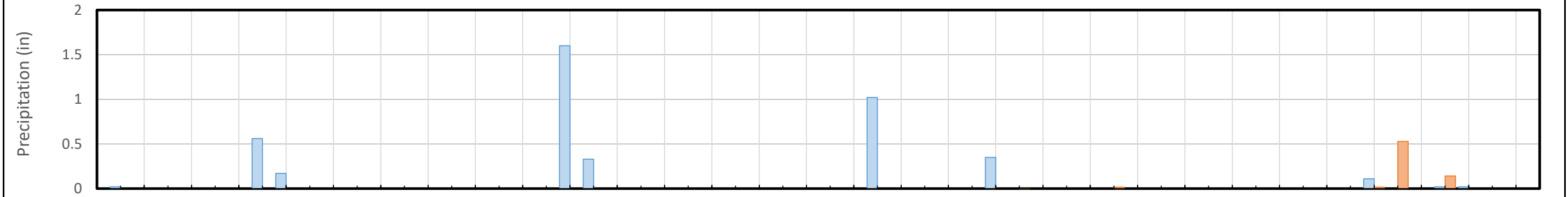
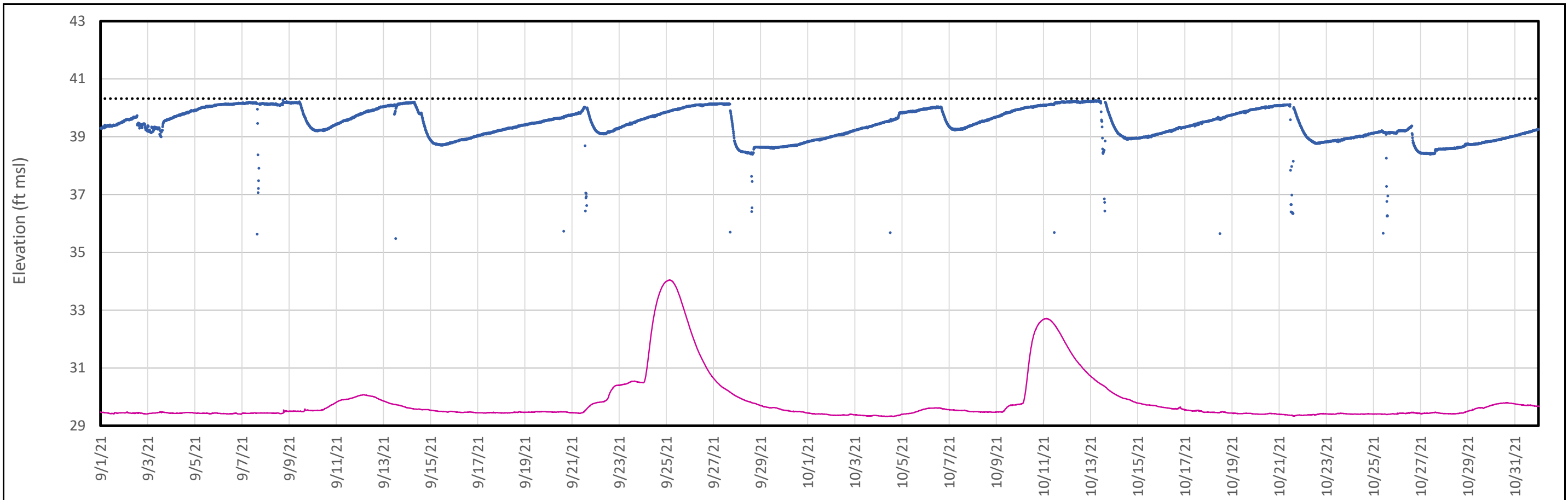
— Inlet Chamber/Impoundment Elevation

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> consultants	<small>Geosyntec Consultants of NC, P.C.          NC License No.: C 3500 and C 295</small>
Raleigh, NC	November 2021

**Figure  
A3-D**



- Legend**
- Inlet Chamber Water Elevation
  - River Stage
  - ♦♦♦ Bypass Spillway Elevation
  - USGS Precipitation (daily totals)
  - Telemetry 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-D compares the available transducer data to precipitation from the telemetry rain gauge installed at Seep C, which became available on October 10, 2021, and precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

<b>Inlet Chamber Water Elevation and External Forcings - Seep D</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	November 2021
<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-B-INFLUENT-210-090921	320-78765-1	Other liquid	N	09/09/2021	12:00	FS
SEEP-B-EFFLUENT-210-090921	320-78765-2	Other liquid	N	09/09/2021	12:00	FS
SEEP-A-INFLUENT-336-091421	320-79069-1	Other liquid	N	09/14/2021	18:00	FS
SEEP-A-EFFLUENT-336-091421	320-79069-2	Other liquid	N	09/14/2021	18:00	FS
SEEP-C-INFLUENT-336-091421	320-79069-3	Other liquid	N	09/14/2021	18:00	FS
SEEP-C-EFFLUENT-336-091421	320-79069-4	Other liquid	N	09/14/2021	18:00	FS
SEEP-D-INFLUENT-318-091421	320-79069-5	Other liquid	N	09/14/2021	18:00	FS
SEEP-D-EFFLUENT-336-091421	320-79069-6	Other liquid	N	09/14/2021	18:00	FS
SEEP-A-EFFLUENT-336-091421-D	320-79069-7	Other liquid	N	09/14/2021	18:00	DUP
SEEP-FBLK-091421	320-79069-8	Blank Water	N	09/14/2021	17:00	FB
SEEP-A-INFLUENT-RAIN-24-092221	320-79419-1	Other liquid	N	09/22/2021	09:02	FS
SEEP-A-EFFLUENT-RAIN-24-092221	320-79419-2	Other liquid	N	09/22/2021	09:07	FS
SEEP-C-INFLUENT-RAIN-24-092321	320-79419-3	Other liquid	N	09/23/2021	14:15	FS
SEEP-C-EFFLUENT-RAIN-24-092321	320-79419-4	Other liquid	N	09/23/2021	14:15	FS
SEEP-D-INFLUENT-RAIN-24-092321	320-79419-5	Other liquid	N	09/23/2021	11:21	FS
SEEP-D-EFFLUENT-	320-79419-6	Other liquid	N	09/23/2021	11:13	FS

RAIN-24-092321						
SEEP-B-EFFLUENT-RAIN-24-092221	320-79419-7	Other liquid	N	09/22/2021	10:50	FS
SEEP-B-INFLUENT-RAIN-24-092221	320-79419-8	Other liquid	N	09/22/2021	10:05	FS
SEEP-EQBLK-092221	320-79419-9	Blank Water	N	09/22/2021	10:00	EB
SEEP-B-INFLUENT-330-092321	320-79639-1	Other liquid	N	09/23/2021	11:01	FS
SEEP-B-EFFLUENT-336-092321	320-79639-2	Other liquid	N	09/23/2021	11:00	FS
SEEP-A-INFLUENT-252-100121	320-79696-1	Other liquid	N	10/01/2021	06:03	FS
SEEP-A-EFFLUENT-336-100121	320-79696-2	Other liquid	N	10/01/2021	12:01	FS
SEEP-B-EFFLUENT-168-100121	320-79696-3	Other liquid	N	10/01/2021	06:00	FS
SEEP-B-INFLUENT-168-100121	320-79696-4	Other liquid	N	10/01/2021	06:00	FS
SEEP-C-INFLUENT-330-100121	320-79696-5	Other liquid	N	10/01/2021	12:01	FS
SEEP-C-EFFLUENT-336-100121	320-79696-6	Other liquid	N	10/01/2021	12:01	FS
SEEP-D-INFLUENT-336-100121	320-79696-7	Other liquid	N	10/01/2021	12:01	FS
SEEP-FBLK-100121	320-79696-8	Blank Water	N	10/01/2021	15:00	FB
SEEP-D-EFFLUENT-330-100121	320-79696-9	Other liquid	N	10/01/2021	06:01	FS
SEEP-A-EFFLUENT-RAIN-24-101021	320-80482-1	Other liquid	N	10/10/2021	14:15	FS
SEEP-A-INFLUENT-RAIN-24-101021	320-80482-2	Other liquid	N	10/10/2021	14:28	FS
SEEP-B-INFLUENT-336-101521	320-80526-1	Other liquid	N	10/15/2021	10:00	FS

SEEP-FBLK-101521	320-80526-10	Blank Water	N	10/15/2021	10:00	FB
SEEP-B-EFFLUENT-336-101521	320-80526-2	Other liquid	N	10/15/2021	10:00	FS
SEEP-D-INFLUENT-282-101521	320-80526-3	Other liquid	N	10/15/2021	10:00	FS
SEEP-D-EFFLUENT-336-101521	320-80526-4	Other liquid	N	10/15/2021	10:00	FS
SEEP-C-INFLUENT-336-101521	320-80526-5	Other liquid	N	10/15/2021	10:00	FS
SEEP-C-EFFLUENT-336-101521	320-80526-6	Other liquid	N	10/15/2021	10:00	FS
SEEP-A-INFLUENT-336-101521	320-80526-7	Other liquid	N	10/15/2021	10:00	FS
SEEP-A-EFFLUENT-336-101521	320-80526-8	Other liquid	N	10/15/2021	10:00	FS
SEEP-D-EFFLUENT-336-101521-D	320-80526-9	Other liquid	N	10/15/2021	10:00	DUP
SEEP-A-INFLUENT-336-102921	320-81060-1	Other liquid	N	10/29/2021	10:00	FS
SEEP-A-EFFLUENT-336-102921	320-81060-2	Other liquid	N	10/29/2021	10:00	FS
SEEP-B-INFLUENT-198-102921	320-81060-3	Other liquid	N	10/29/2021	10:00	FS
SEEP-B-EFFLUENT-336-102921	320-81060-4	Other liquid	N	10/29/2021	10:00	FS
SEEP-C-INFLUENT-336-102921	320-81060-5	Other liquid	N	10/29/2021	10:00	FS
SEEP-C-EFFLUENT-336-102921	320-81060-6	Other liquid	N	10/29/2021	10:00	FS
SEEP-D-INFLUENT-336-102921	320-81060-7	Other liquid	N	10/29/2021	10:00	FS
SEEP-D-EFFLUENT-336-102921	320-81060-8	Other liquid	N	10/29/2021	10:00	FS
SEEP-B-INFLUENT-Rain-16-102621	320-81062-1	Other liquid	N	10/26/2021	23:21	FS

SEEP-B-EFFLUENT-Rain-24-102621	320-81062-2	Other liquid	N	10/26/2021	23:28	FS
SEEP-C-INFLUENT-Rain-21-102621	320-81062-3	Other liquid	N	10/26/2021	23:27	FS
SEEP-C-EFFLUENT-Rain-16-102621	320-81062-4	Other liquid	N	10/26/2021	23:00	FS
SEEP-D-INFLUENT-Rain-21-102621	320-81062-5	Other liquid	N	10/26/2021	23:01	FS
SEEP-D-EFFLUENT-Rain-24-102621	320-81062-6	Other liquid	N	10/26/2021	23:01	FS
SEEP-EQBLK-102621	320-81062-7	Blank Water	N	10/26/2021	16:00	EB

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

## Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins TestAmerica, Sacramento	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)	Seep Flow Through Cell Sampling 2021

## ADQM Data Review Checklist

Item	Description	Yes	No*	DVM Narrative Report	Laboratory Report	Exception Report (ER) #
A	Did samples meet laboratory acceptability requirements upon receipt (i.e., intact, within temperature, properly preserved, and no headspace where applicable)?	X				
B	Were samples received by the laboratory in agreement with the associated chain of custody?	X				
C	Was the chain of custody properly completed by the laboratory and/or field team?	X				
D	Were samples prepped/analyzed by the laboratory within method holding times?	X				
E	Were 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				
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**

High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

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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-EFFLUENT-336-101521	10/15/2021	320-80526-4	Hydrolyzed PSDA	0.0052	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-101521	10/15/2021	320-80526-4	Hydrolyzed PSDA	0.0052	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-B-INFLUENT-210-090921	09/09/2021	320-78765-1	R-PSDA	3.9	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-210-090921	09/09/2021	320-78765-1	Hydrolyzed PSDA	32	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-210-090921	09/09/2021	320-78765-1	R-EVE	1.9	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-091421	09/14/2021	320-79069-2	Hydrolyzed PSDA	0.0063	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-091421	09/14/2021	320-79069-2	Hydrolyzed PSDA	0.0065	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-091421-D	09/14/2021	320-79069-7	Hydrolyzed PSDA	0.0057	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-091421	09/14/2021	320-79069-1	R-PSDA	2.3	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-091421	09/14/2021	320-79069-1	Hydrolyzed PSDA	26	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-091421	09/14/2021	320-79069-1	R-EVE	1.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-091421	09/14/2021	320-79069-3	R-PSDA	0.63	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-091421	09/14/2021	320-79069-3	Hydrolyzed PSDA	0.86	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-091421	09/14/2021	320-79069-3	R-EVE	0.61	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-318-091421	09/14/2021	320-79069-5	R-PSDA	0.54	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-318-091421	09/14/2021	320-79069-5	Hydrolyzed PSDA	1.3	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-318-091421	09/14/2021	320-79069-5	R-EVE	0.62	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-092221	09/22/2021	320-79419-1	R-PSDA	1.8	UG/L	PQL		0.071	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-RAIN-24-092221	09/22/2021	320-79419-1	Hydrolyzed PSDA	22	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-092221	09/22/2021	320-79419-1	R-EVE	0.83	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-24-092221	09/22/2021	320-79419-7	Hydrolyzed PSDA	0.011	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-092221	09/22/2021	320-79419-8	R-PSDA	4.2	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-092221	09/22/2021	320-79419-8	Hydrolyzed PSDA	31	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-092221	09/22/2021	320-79419-8	R-EVE	2.8	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-092321	09/23/2021	320-79419-3	R-PSDA	0.53	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-092321	09/23/2021	320-79419-3	Hydrolyzed PSDA	0.70	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-092321	09/23/2021	320-79419-3	R-EVE	0.48	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-092321	09/23/2021	320-79419-5	R-PSDA	0.56	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-092321	09/23/2021	320-79419-5	Hydrolyzed PSDA	1.4	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-092321	09/23/2021	320-79419-5	R-EVE	0.46	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-092321	09/23/2021	320-79639-2	R-PSDA	0.0043	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-092321	09/23/2021	320-79639-2	Hydrolyzed PSDA	0.023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-092321	09/23/2021	320-79639-2	R-EVE	0.0037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-330-092321	09/23/2021	320-79639-1	R-PSDA	5.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-330-092321	09/23/2021	320-79639-1	Hydrolyzed PSDA	42	UG/L	PQL		0.038	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 Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method SOP	Pre-prep	Prep
SEEP-B-INFLUENT-330-092321	09/23/2021	320-79639-1	R-EVE	3.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-100121	10/01/2021	320-79696-2	Hydrolyzed PSDA	0.0026	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-252-100121	10/01/2021	320-79696-1	R-PSDA	2.7	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-252-100121	10/01/2021	320-79696-1	Hydrolyzed PSDA	28	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-252-100121	10/01/2021	320-79696-1	R-EVE	1.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-100121	10/01/2021	320-79696-6	R-PSDA	0.14	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-100121	10/01/2021	320-79696-6	Hydrolyzed PSDA	0.15	UG/L	PQL		0.0076	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-336-100121	10/01/2021	320-79696-6	R-EVE	0.11	UG/L	PQL		0.014	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-330-100121	10/01/2021	320-79696-5	R-PSDA	1.2	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-330-100121	10/01/2021	320-79696-5	Hydrolyzed PSDA	1.5	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-330-100121	10/01/2021	320-79696-5	R-EVE	1.0	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-168-100121	10/01/2021	320-79696-3	Hydrolyzed PSDA	0.0062	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-168-100121	10/01/2021	320-79696-4	R-PSDA	7.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-168-100121	10/01/2021	320-79696-4	Hydrolyzed PSDA	54	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-168-100121	10/01/2021	320-79696-4	R-EVE	4.4	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-100121	10/01/2021	320-79696-7	R-PSDA	1.2	UG/L	PQL		0.071	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-D-INFLUENT-336-100121	10/01/2021	320-79696-7	Hydrolyzed PSDA	2.6	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-100121	10/01/2021	320-79696-7	R-EVE	1.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-101021	10/10/2021	320-80482-2	R-PSDA	1.7	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-101021	10/10/2021	320-80482-2	Hydrolyzed PSDA	19	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-101021	10/10/2021	320-80482-2	R-EVE	0.71	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-101521	10/15/2021	320-80526-7	R-PSDA	2.3	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-101521	10/15/2021	320-80526-7	Hydrolyzed PSDA	27	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-101521	10/15/2021	320-80526-7	R-EVE	1.1	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-101521	10/15/2021	320-80526-2	Hydrolyzed PSDA	0.0036	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-101521	10/15/2021	320-80526-1	R-PSDA	4.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-101521	10/15/2021	320-80526-1	Hydrolyzed PSDA	30	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-101521	10/15/2021	320-80526-1	R-EVE	2.6	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-101521	10/15/2021	320-80526-5	R-PSDA	0.60	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-101521	10/15/2021	320-80526-5	Hydrolyzed PSDA	0.72	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-101521	10/15/2021	320-80526-5	R-EVE	0.54	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-282-101521	10/15/2021	320-80526-3	R-PSDA	0.75	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-282-101521	10/15/2021	320-80526-3	Hydrolyzed PSDA	1.6	UG/L	PQL		0.038	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-D-INFLUENT-282-101521	10/15/2021	320-80526-3	R-EVE	0.68	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-102921	10/29/2021	320-81060-1	R-PSDA	2.6	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-102921	10/29/2021	320-81060-1	Hydrolyzed PSDA	30	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-102921	10/29/2021	320-81060-1	R-EVE	1.2	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-198-102921	10/29/2021	320-81060-3	R-PSDA	3.5	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-198-102921	10/29/2021	320-81060-3	Hydrolyzed PSDA	32	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-198-102921	10/29/2021	320-81060-3	R-EVE	1.8	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-16-102621	10/26/2021	320-81062-1	R-PSDA	3.2	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-16-102621	10/26/2021	320-81062-1	Hydrolyzed PSDA	28	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-16-102621	10/26/2021	320-81062-1	R-EVE	1.9	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-102921	10/29/2021	320-81060-5	R-PSDA	0.83	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-102921	10/29/2021	320-81060-5	Hydrolyzed PSDA	0.98	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-102921	10/29/2021	320-81060-5	R-EVE	0.69	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-21-102621	10/26/2021	320-81062-3	R-PSDA	0.79	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-21-102621	10/26/2021	320-81062-3	Hydrolyzed PSDA	1.0	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-21-102621	10/26/2021	320-81062-3	R-EVE	0.70	UG/L	PQL		0.072	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-D-INFLUENT-336-102921	10/29/2021	320-81060-7	R-PSDA	0.89	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-102921	10/29/2021	320-81060-7	Hydrolyzed PSDA	1.9	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-102921	10/29/2021	320-81060-7	R-EVE	0.69	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-21-102621	10/26/2021	320-81062-5	R-PSDA	0.78	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-21-102621	10/26/2021	320-81062-5	Hydrolyzed PSDA	1.7	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-21-102621	10/26/2021	320-81062-5	R-EVE	0.66	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep