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INTERIM SEEP REMEDIATION OPERATION AND MAINTENANCE REPORT #4

Chemours Fayetteville Works

Prepared for

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EXECUTIVE SUMMARY

This Operations and Maintenance Report #4 (O&M Report #4) has been prepared to document the operations, maintenance, and performance of the flow-through cells at Seeps A, B, C, and D from July 1 through August 31, 2021. The median flow rate processed by the Seep A, B, and C, and D FTCs was 121, 89, 66, and 159 gallons per minute (gpm), respectively. As documented in the previous O&M Reports #1 #2, and #3, 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 43,500,000 gallons of seep flow. Composite samples from performance monitoring indicated the PFAS removal efficiency of the captured base flow ranged from approximately 99.5 to >99.9%, and the FTCs are estimated to have prevented approximately 58.6 pounds (lbs) of PFAS from being discharged to the Cape Fear River in the reporting period, and 120.9 lbs of PFAS over the lifetime of the systems to date.

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%	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 #4 ("O&M Report #4") 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 #4 has been prepared for the operational period of July 1 through August 31, 2021. The next O&M Report (#5) will cover the bimonthly period of September 1 through October 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 #4, 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 (July 1 through August 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-ddetail the filter bed configurations for Seeps A, B, C, and D over the reporting period of July 1 through August 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	28	34	62
B	60.5	1.5	62
C	41.5	20.5	62
D	62	0	62

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.

During this reporting period (July 1 through August 31, 2021), the Cape Fear River remained below the action level. 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 GAC in FB1 at Seep A and FB2 at Seep C were exchanged on July 27. No GAC changeouts occurred at Seep B and D during this reporting period.

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 (July 1 through August 31, 2021):

Seep	Average Turbidity Prior to Construction (NTU)	Average Turbidity Since Startup (NTU)	Average Turbidity During Storm Events (NTU)*
A	13	60	253
B	11	46	188
C	28	59	221
D	5	100	518

**The rain event from July 9, 2021 was selected as a representative storm for all four seeps.*

As documented in O&M Reports #1, #2, and #3 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 #3, samples of the suspected algae and/or bacterial growth have been collected for analysis and for evaluation and selection of suitable remedial options (e.g., commercial products for control of microbial growth in industrial ponds).

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.

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, six performance monitoring samples were collected for Seep A and five performance monitoring samples each were collected for Seeps B, C, and D (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. Eight breakthrough monitoring samples were collected from Seeps A-D during this reporting period (32 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

Two instances of transducer downloads were unsuccessful during this reporting period:

(1) The influent transducer data at Seep B and effluent transducer data at Seep C was inadvertently overwritten during retrieval on the July 12 O&M field event. Data for these locations was lost for July 6 through July 12, 2021.

(2) The influent and effluent transducer data at Seep B were inadvertently overwritten during retrieval on the August 30 O&M field event. Data for these locations was lost for August 27 through 30, 2021.

For both Seeps B and C, flowrates were imputed for the effluent data gap duration. The imputed flowrates were calculated as the median of measured flowrates from three days before and after the data gap.

Some systemic errors may be present in the influent basin transducer data following the introduction of sand into the inlet basin. This irregularity is most pronounced at Seep B. The stilling wells which house the transducers are set below the sand and gravel layers and the settling of sand through the pipe perforations has caused the stilling wells to be insufficiently hydraulically connected to the impoundment. This has resulted in different water levels inside the stilling well when compared to the impoundment. Modifications to the stilling well have been implemented and their effectiveness will be evaluated in O&M Report #5.

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 combination of aliquot collection (14 days and 24 hours) was utilized due to interruptions in the collection of some 14-day composite samples:

- 3.95 inches of rain fell on July 19 with a peak intensity of 3.4 inches per hour, damaging the ISCO autosamplers at Seep A (knocking them over with storm surge) and interrupting the 14-day composite cycle that had initiated July 16. O&M staff re-programmed the samplers to collect two, 24-hour composites on July 23 and July 30 to complete the monthly program at Seep A.
- The autosamplers at Seep A malfunctioned from August 17 through August 19, interrupting the collection of aliquots early into the 14-day composite cycle. O&M staff re-programmed the Seep A autosampler to collect two, 24-hour composites on August 20 and August 28 to complete the monthly program. To allow for consistency across the FTCs, O&M staff re-programmed the samplers at Seeps B-D to collect the same 24-hour composites on August 20 and August 28 as well.

- The influent autosampler at Seep D malfunctioned during the July 1-14 14-day composite cycle, resulting in insufficient aliquots for the composite. The O&M staff reprogrammed the sampler to collect a 24-hour influent composite from July 13-14. The effluent sampler was not affected.

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	62 days *(July 1 - August 31, 2021)*				
Rainfall, Actual (in)	11.13 *(July 1 - August 31, 2021)*				
Rainfall, Historical Average (in)	9.13 *(July 1 - August 31, 2004-2020)*				
River Above Spillway (days)	0	0	0	0	N/A
Operational Period (days)	62	62	62	62	N/A
Median Flow Rate (gpm)	120	89	66	159	435
Seep Volume Treated (gallons)	12,000,000	9,400,000	6,100,000	16,000,000	43,500,000
PFAS Removed (lbs)	21.6	17.8	5.5	13.6	58.6
GAC Replaced (lbs)	36,000	0	6,000	0	42,000

4.1 System Flowrates and Operational Periods

4.1.1 System Flowrate

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

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

Flowrate Metric	Seep A	Seep B	Seep C	Seep D
Median Flow Rate (gpm) during the Reporting Period	120	89	66	159
95th percentile Flow Rate (gpm) during the Reporting Period	262	239	170	333
Design Basis Flow Rate * (gpm)	205	226	76	183

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

Using the measured and extrapolated flowrate calculations, approximately 12,000,000 gallons, 9,400,000 gallons, 6,100,000 gallons, and 16,000,000 gallons of water (42,500,000 gallons total) were treated by the Seeps A, B, C, and D FTCs, respectively, from July 1 through August 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 in July at the seeps was caused by several days of heavy rainfall, including July 2 (1.25 inches), July 8 (1.81 inches), July 19 (3.95 inches), and August 6 (1.08 inches). The total rainfall received in July was approximately 8.4 inches, which is more than twice of the historical July average (3.89 inches). The total rainfall in August was approximately 2.73 inches, less than the historical August average (5.24 inches). Seep B had three brief intervals of bypass flow around the rain events, while Seep D FTC captured nearly all of the 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 21 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)	185,000	201,000	105,000	101,000
Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	170	1	210	7
Average Removal Efficiency (%)	99.9	>99.9	99.8	>99.9

4.3 System Effectiveness

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

Based on the system flowrate data (Section 4.1.1) and the performance monitoring composite sample data of the three indicator compounds (Section 4.2), the overall system effectiveness for Seeps A-D was calculated to be 99.91%. The system effectiveness for the individual Seeps is presented below:

System effectiveness	Seep A	Seep B	Seep C	Seep D	Overall Average
%	99.95	99.99	99.70	99.98	99.91

The estimates of system effectiveness are different from the Table 3+ removal efficiency described in Section 4.2 because the calculations involve adjusting for the differences between 24-hour composite samples and 14-day composition samples.

4.4 Wet Weather Sampling Results

Wet weather monitoring samples (July 9 and August 18) 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).

Analytical Result – Wet Weather Monitoring	Seep A	Seep B	Seep C	Seep D
Average Influent Total Table 3+ PFAS, 17 compounds (ng/L)	143,000	175,000	77,000	88,000
Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	36	1	80	2
Average Removal Efficiency (%)	>99.9	>99.9	99.9	>99.9

4.5 River Elevation and Precipitation

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

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

(i) When the river rises above the top of the GAC, head differentials throughout the FTC are reduced and flow through the system is hindered.

(ii) When the river rises above the invert of the Bypass Spillway, the influent and effluent water elevation are equal and flow through the system ceases.

(iii) When the river rises above the top of the FTC walls, maintenance is required to repair any damages from flooding.

A statistical summary of the Cape Fear River elevation relative to these key elevations is provided in Table 5. The Cape Fear River did not rise above the elevation level of any key features (GAC, wall, spillway, discharge pipe) of any FTCs during the reporting period. The changes in elevation of the Cape Fear River during the reporting period (July 1 through August 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 D. In Seep C, the DO level increased on a median basis by 0.7 mg/L. The minimum average effluent DO across all four FTCs was 5.9 mg/L, indicating aerobic conditions are maintained during the process. The FTC systems do not use 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 2% 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. On a median basis, specific conductance decreased from influent to effluent by 8 to 22 uS/cm at seeps A, B, and D. At Seep C, median conductivity increased by 10 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 1.5 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 11.6 to 65.1 NTU. The FTCs significantly decreased the turbidity of the influent water. The decrease in median turbidity across all four Seeps was at least 88%. The TSS was observed to be 0.0 mg/L for all influent and effluent monitoring locations.

4.7 GAC Usage

On July 27, 18,000 lbs of GAC was replaced in FB1 of Seep A and 6,000 lbs of GAC were replaced in FB2 of Seep C. On August 27, 18,000 lbs of GAC were replaced at FB2 of Seep A. No GAC was replaced at Seeps B or D during the reporting period.

The GAC changeouts that were performed in July utilized less carbon (a two-foot thick layer) than the design thickness (a three-foot thick layer). It is suspected that carbon changeouts may have been taking place as a result of clogging and fouling and not necessarily PFAS breakthrough, which would result in wasted unused GAC. A thinner layer of GAC in the filter beds will result in more frequent changeouts, while reducing GAC wastage. Breakthrough monitoring will continue at a frequent pace (weekly minimum) to confirm that treatment remains reliably high as before.

5. SUMMARY

The following summarizes the FTC's performance after the completion of the latest reporting period (July 1 through August 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 99.5 to >99.9%. To date, the A-D FTCs have prevented approximately 120.9 lbs of PFAS from being discharged to the Cape Fear River.

The next reporting period (September 1 through October 31, 2021) will be detailed in O&M Report #5, to be submitted no later than November 30, 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

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Geosyntec, 2020. Interim Seep Remediation System Plan. Chemours Fayetteville Works. 31 August 2020.

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Geosyntec, 2021b. Interim Seep Remediation Operation and Maintenance Report #2. Chemours Fayetteville Works. 31 May 2021.

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TABLES

Table 1a
Summary of Operations and Maintenance Activities - Seep A
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
						Arrival		Departure				
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	FB1	FB2	FB1	FB2			
07/01/2021	65	No				Lead	Lag	Lead	Lag		N/A	Sediment/algae debris visible on the Geotextile. Started performance samples.
07/06/2021	70	Yes	X			Lead	Lag	Parallel	Parallel	X	FB1 and FB2 opened to allow full processing for 12 hours, starting at 17:00.	FB1 maintenance needed. ISCO error (no liquid detect).
07/07/2021	71	No				Parallel	Parallel	Lead	Lag		Drained, hard raked, and fluffed FB1 and FB2. Drained mid basin. Flushed inlet basin.	7 inches of freeboard.
07/09/2021	73	Yes			X	Lead	Lag	Lead	Lag		Unable to conduct maintenance until storm receded.	FB1 appeared to be silted over due to storm event. Rain gauge reading of 1.8 inches. Maintenance needed at FB1.
07/12/2021	76	Yes				Lead	Lag	Lead	Lag	X	N/A	System set in parallel to process stormwater backlog. System stopped bypassing by end of the day.
07/14/2021	78	No				Closed	Lead	Lead	Lag		Hard scrubbed FB1 lead bed and skimmed GAC. Flushed inlet filter with dewatering.	6.5 inches of freeboard.
07/15/2021	79	--		X		--	--	--	--		N/A	N/A
07/16/2021	80	Yes				Lead	Lag	Lead	Lag		Fabric replaced at FB2. Raked and fluffed FB2.	Rain gauge reading of 0.4 inches from overnight rain. Flow bypassing stopped after completion of maintenance. Started 14-day performance sample.
07/19/2021	83	Yes	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 0.5 inches. No parameters taken for breakthrough samples.
07/20/2021	84	Yes				Lead	Lag	Lead	\		FB1 and FB2 cleaned and fluffed. Inlet basin and mid basin flushed.	Influent ISCO knocked over during flash flood. Riprap of effluent spillway damaged from storm event. Effluent side sank down by about 1 inch.
07/22/2021	86	Yes				Lead	Lag	Lag	Lead		Fabric replaced at FB2. Skimmed and fluffed FB2. Flushed and drained mid basin and inlet basin. FB1 left open to dry and FB2 set as sole processor.	Unable to service FB1 due to deep compaction and silt.
07/26/2021	90	Yes	X	X		Lag	Lead	Closed	Lead		Fabric was replaced and one inch of GAC was removed from FB2. Inlet basin was flushed for ~1.5 hours.	Rain gauge reading of 1/4 inch. Stopped bypassing after work was completed.
07/27/2021	91	--				Changeout	Lead	Lag	Lead		GAC Changeout in FB1. Filling with 18 sacks (1-ft less carbon).	N/A
07/28/2021	92	No				Lag	Lead	Lag	Lead		GAC removal from FB1. Filled and removed two containers.	ISCO knocked over in storm.
08/02/2021	97	Yes	X	X		Lag	Lead	Lag	Lead	X	Unable to conduct maintenance until storm receded.	N/A
08/05/2021	100	Yes				Lag	Lead	Lag	Lead		Fabric replaced at FB2. Skimmed and fluffed FB2. Flushed inlet basin.	Rain gauge reading of 7/16 inches. Bypassing stopped upon completion of maintenance.
08/09/2021	104	Yes	X			Lag	Lead	Lag	Lead	X	N/A	N/A
08/11/2021	106	Yes				Lag	Lead	Lag	Lead		Skimmed, fluffed, and placed new fabric in FB2. Fluffed FB1. Flushed inlet basin.	ISCO effluent tubing came loose and missed samples 24 through 28. No liquid detected. Issue fixed and no more errors.
08/12/2021	107	No				Lag	Lead	Lag	Lead		N/A	Approximately 0.5 inches of freeboard on high side.
08/16/2021	111	Yes	X			Lag	Lead	Lag	Lead	X	N/A	Approximately 1 inch of water is bypassing.
08/17/2021	112	--		X		Lag	Lead	Lag	Lead		N/A	ISCO error "no liquid detected" 24-28 aliquots.
08/19/2021	114	Yes			X	Lag	Lead	Lag	Lead		FB2 skimmed and fluffed. FB1 temporarily in lead to allow FB2 service.	Rain gauge reading of 0.6 inches. Bypass stopped at 11:00 AM.
08/23/2021	118	No	X	X		Lag	Lead	Parallel	Parallel	X	Ran both FBs in parallel to prevent bypass.	No freeboard but not bypassing. Rain gauge reading of 7/8 inches on 8/20/21.
08/27/2021	122	--				Parallel	Parallel	Lead	Lag		GAC Changeout in FB2.	N/A
08/30/2021	125	No	X	X		Lead	Lag	Lead	Lag	X	N/A	N/A

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 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
						Arrival		Departure				
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	FB1	FB2	FB1	FB2			
07/01/2021	24	No				Lead	Lag	Lead	Lag		Fabric exchanged and hand raked at FB1.	FB1 processed at a slower rate. Water observed flowing northeast of FTC (unknown origin). Recent subsidence of rip-rap northeast of FTC.
07/06/2021	29	No	X			Lead	Lag	Lead	Lag	X	N/A	Filter sand was visible on Geotextile above Inlet Chamber. Algae was on the Geotextile above the GAC FBs; required two vacuum pump flush.
07/09/2021	32	Yes			X	Lead	Lag	Lead	Lag		Unable to perform maintenance until storm water receded.	Flow observed visually/audibly through northeast corner of riprap. FB1 appeared to be silted due to storm event. Rain gauge reading of 1.8 inches.
07/12/2021	35	No				Lead	Lag	Lead	Lag	X	N/A	Flow of water observed at the northeast corner of the dam, at the toe of the riprap slope. Lead FB appeared to be clogged. Algae still observed in FB2. Tarps placed over entire FTC.
07/15/2021	38	--		X		--	--	--	--		N/A	N/A
07/19/2021	42	No	X			Lead	Lag	Lead	Lag	X	FB1 allowed to drain and intake was shutoff. FB2 utilized as sole processor.	Rain gauge reading of 0.5 inches. No breakthrough sample parameters recorded. Influent ISCO: 9 samples missed due to crimped hose. Water flow seen exiting the northeast corner of the dam at the tow of the riprap slope. Depression observed in the riprap in the northeast corner of the dam.
07/20/2021	43	No				Lead	Lag	Lead	Lag		Fabric replaced, hard raked and fluffed.	Bypassing occurred the previous night, but no bypassing on arrival. 2 inches of freeboard.
07/26/2021	49	No	X			Parallel	Parallel	Lead	Lag	X	N/A	System ran in parallel for ~60 hours. Approximately 7 inches of freeboard in spillway.
07/27/2021	50	No				Lead	Lag	Lead	Lag		Replaced fabric, skimmed and fluffed FB1 and FB2. Flushed inlet basin.	2.5 inches of freeboard upon arrival. Secondary bypass on northeast end. Influent ISCO error of no liquid for samples 1-9 due to tubing problem.
07/30/2021	53	No				Lead	Lag	Lead	Lag		N/A	Depth to water measurements taken.
08/02/2021	56	No	X	X		Lead	Lag	Lead	Lag	X	Unable to perform maintenance until storm water receded.	N/A
08/06/2021	60	No				Lead	Lag	Lead	Lag		Hard raked, fluffed, and replaced fabric at FB1. Raked and fluffed FB2. Flushed inlet basin.	Rain gauge reading of 7/16 inches.
08/09/2021	63	No	X			Lead	Lag	Lead	Lag	X	N/A	Influent data logger tube was making a loud running water sound. Rain gauge reading of 1.2 inches.
08/12/2021	66	No				Lead	Lag	Lead	Lag		Skimmed FB1 & FB2. Fluffed and replaced fabric in both cells. Flushed inlet basin and drilled extra holes in data logger tube to allow water levels to even out. Cleaned up old fabric.	1 inch of freeboard upon arrival. Rain gauge reading of 1/16 inches.
08/13/2021	67	No				Lead	Lag	Lead	Lag		N/A	3 inches of freeboard.
08/16/2021	70	No	X			Lead	Lag	Lead	Lag	X	N/A	Secondary bypass at northeast side of seep. Flow of water seen at toe of slope on the northern downgradient side of the dam. Subsidence noted in the rip rap along the northern portion of the dam. Influent stilling well had waterfall inside stilling well. Appeared to have a water level difference inside stilling well.
08/17/2021	71	--		X		--	--	--	--		N/A	N/A
08/20/2021	74	No				Lead	Lag	Lead	Lag		Sand filter in inlet basin removed and filter replaced.	N/A
08/23/2021	77	No	X	X		Lead	Lag	Lead	Lag	X	N/A	Approximately 1 inch of freeboard. Rain gauge reading of 9 mm of rain, likely from 8/22/2021.
08/24/2021	78	No				Lead	Lag	Lead	Lag		Maintenance performed on FB1. Inlet basin fabric exchanged.	N/A
08/27/2021	81	No				Lead	Lag	Lead	Lag	X	N/A	N/A
08/30/2021	84	No	X	X		Lead	Lag	Lead	Lag		N/A	N/A
08/31/2021	85	No				Lead	Lag	Lead	Lag		N/A	Started 14-day performance sample.

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 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
						Arrival		Departure				
			Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	FB1	FB2	FB1	FB2			
07/01/2021	198	No				Lag	Lead	Lag	Lead		N/A	3 inches of freeboard. Algae on geocomposite. Started performance sampling.
07/06/2021	203	Yes	X			Lag	Lead	Lag	Lead	X	FB2 fabric removed and GAC hard raked to breakup compacted layer.	FB2 as lead compacted and not percolating on arrival. Stormwater backlog bypassing system. FB1 used as sole processor for 3 hours. System stopped bypassing by 15:00.
07/09/2021	206	Yes			X	Lag	Lead	Lag	Lead		Canvas installed over FB1.	Post storm inspection, storm water samples collected. Rain gauge reading of 2.1 inches.
07/12/2021	209	Yes				Lag	Lead	Lead	Closed	X	FB1 turned to sole processer to dewater FB2 for skimming.	Stopped bypassing by end of day.
07/15/2021	212	--		X		--	--	--	--		N/A	Collected performance samples.
07/16/2021	213	No				Lag	Lead	Lag	Lead		N/A	Started 14 day performance sample.
07/19/2021	216	Yes	X			Lag	Lead	Lag	Lead	X	N/A	Rain gauge reading of 3/8 inches. No parameters collected for breakthrough samples.
07/20/2021	217	Yes				Lag	Lead	Lag	Lead		N/A	N/A
07/21/2021	218	Yes				Lag	Lead	Lead	Lag		Replaced fabric, skimmed, and barreled FB1/FB2. Flushed inlet stilling basin. Installed railings. Operational mode changed from FB1 Lag/FB2 Lead to FB1 Lead/FB2 Lag.	Rain gauge reading of 2/10 inches. Stopped bypassing at 13:00.
07/26/2021	223	No	X			Lead	Lag	Lead	Closed	X	N/A	3 inches of freeboard. FB1 sole processor. FB2 compacted and not flowing.
07/27/2021	224	--				Lead	Changeout	Lead	Lag	--	GAC changeout of FB2. Refilled with 6 bags (1-ft less carbon).	N/A
07/30/2021	227	No				Lead	Lag	Lead	Lag		N/A	N/A
08/02/2021	230	No	X	X		Lead	Lag	Lead	Lag		N/A	N/A
08/04/2021	232	Yes				Lead	Lag	Lead	Lag	X	Dewatered FB1. Switched to FB2 lead solo processor.	Rain gauge reading of 11/16 inches.
08/05/2021	233	No				Lead	Lag	Lead	Lag		Hard raked and fluffed FB1 and FB2.	Valve 21 broke along old weld point when opening valve. 12 inches of freeboard at inlet.
08/09/2021	237	Yes	X			Lead	Lag	Lead	Lag	X	N/A	Post storm inspection. Rain gauge reading of 1.1 inches. Turbidity had an error code.
08/10/2021	238	Yes				Lead	Lag	Lead	Lag		Skimmed, fluffed, and added new fabric at FB1 and FB2. Flushed inlet basin.	Stopped bypassing after maintenance.
08/13/2021	241	Yes				Lead	Lag	Lead	Lag		Drained and flushed inlet stilling basin. Skimmed and fluffed FB1.	Stopped bypassing after maintenance.
08/16/2021	244	Yes	X			Lead	Lag	Lead	Lag	X	N/A	Weekly inspection. Collected breakthrough samples.
08/17/2021	245	Yes		X		Lead	Lag	Lead	Lag		Skimmed and fluffed FB1.	Started new 24-hour storm sample.
08/19/2021	247	Yes			X	Lead	Lag	Lead	Lag		N/A	Rain gauge reading of 7/16 inches. Started performance sample. Stormwater sample collection.
08/20/2021	248	Yes				Lead	Lag	Parallel	Parallel		Cells ran in parallel for maintenance.	Rain gauge reading of 1/4 inches.
08/23/2021	251	No	X	X		Lead	Lag	Lead	Lag	X	N/A	System ran in parallel from 8/20/21 to 8/21/21 (24 hours) to prevent bypassing. Returned to FB1 Lead/ FB2 Lag on 8/21/21. Approximately 3.5 inches of freeboard.
08/26/2021	254	--				--	--	--	--		N/A	Measured each datalogger and added new data logger with telemetry. Depth to water measurements collected. 10 inches of freeboard.
08/27/2021	255	No				Lead	Lag	Lead	Lag		N/A	Set up 24-hour performance samples.
08/30/2021	258	No	X	X		Lead	Lag	Lead	Lag	X	N/A	N/A

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 4 (July - August 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			
07/01/2021	8	No				Lead	Lag	Lead	Lag		N/A	Small amount of sediment in FB1. Started 14 day performance monitoring sample. First sample collected at 1400, 07/01/2021.
07/06/2021	13	No	X			Lead	Lag	Lead	Lag	X	N/A	N/A
07/09/2021	16	No			X	Lead	Lag	Lead	Lag		N/A	Post storm inspection. Stormwater sample collected. Rain gauge reading of 2 inches.
07/12/2021	19	No				Lead	Lag	Lead	Lag	X	N/A	Weekly inspection and data logger download. Rain gauge reading of 1/16 inch. 3 inches of freeboard.
07/13/2021	20	No				Lead	Lag	Lead	Lag		FB1 hard raked and flushed.	N/A
07/15/2021	22	--		X		--	--	--	--		N/A	Performance samples collected.
07/19/2021	26	No	X			Lead	Lag	Lead	Lag	X	N/A	Rain gauge reading of 1/4 inch. Breakthrough sample parameters not collected.
07/20/2021	27	No				Lead	Lag	Lead	Lag		N/A	Post storm inspection. Rain gauge reading of 4.5 inches. 1 inch of freeboard.
07/23/2021	30	No				Lead	Lag	Lead	Lag		Hard raked FB2. Skimmed and fluffed FB1.	6 inches of freeboard.
07/26/2021	33	No	X			Lead	Lag	Lead	Lag	X	N/A	1 foot of freeboard upon arrival.
07/30/2021	37	No				Lead	Lag	Lead	Lag		N/A	Depth to water measurements recorded.
08/02/2021	40	No	X	X		Lead	Lag	Lead	Lag	X	Unable to conduct maintenance until storm water receeded.	N/A
08/05/2021	43	No				Lead	Lag	Lead	Lag		Routine service performed on FB1. Flushed inlet basin.	Rain gauge reading of 5/8 inches.
08/09/2021	47	No	X			Lead	Lag	Lead	Lag	X	N/A	Post storm inspection. Rain gauge reading of 1.1 inches. Influent ISCO error.
08/11/2021	49	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, and added new fabric in FB1. Flushed inlet basin.	Heavy algae in FB1 under tarps. Rain gauge reading of 3/16 inches.
08/16/2021	54	No	X			Lead	Lag	Lead	Lag	X	N/A	Algae
08/17/2021	55	No		X		Lead	Lag	Lead	Lag		N/A	Collected 14-day performance sample. Started 24-hour storm sample.
08/18/2021	56	No				Lead	Lag	Lead	Lag		Skimmed, fluffed, and hard raked FB1. Flushed inlet basin.	3 inches of freeboard.
08/19/2021	57	No		X		Lead	Lag	Lead	Lag		N/A	No liquid detected in influent aliquot #21 at 16:00. Effluent aliquots #7, #8, and #9 missing. 12+ inches of freeboard.
08/23/2021	61	No	X	X		Lead	Lag	Lead	Lag	X	N/A	9 inches of freeboard.
08/30/2021	68	No	X	X		Lead	Lag	Lead	Lag	X	Wet vacuumed FB1 with 2 inch transfer pump.	4 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

Table 2a
Sampling Summary - Seep A
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-A-INFLUENT-300-140721 SEEP-A-EFFLUENT-336-140721	July 1 - July 14, 2021	July 14, 2021
SEEP-A-INFLUENT-24-072321 SEEP-A-EFFLUENT-24-072321	July 22 - July 23, 2021	July 23, 2021
SEEP-A-INFLUENT-24-300721 SEEP-A-EFFLUENT-24-300721	July 29 - July 30, 2021	July 30, 2021
SEEP-A-INFLUENT-336-081721 SEEP-A-EFFLUENT-306-081721	August 3 - August 17, 2021	August 17, 2021
SEEP-A-INFLUENT-24-082021 SEEP-A-EFFLUENT-24-082021	August 19 - August 20, 2021	August 20, 2021
SEEP-A-INFLUENT-24-082821 SEEP-A-EFFLUENT-24-082821	August 27 - August 28, 2021	August 28, 2021

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-A-INFLUENT-RAIN-24-070921 SEEP-A-EFFLUENT-RAIN-24-070921	July 9, 2021	09:50	2.18
SEEP-A-INFLUENT-RAIN-24-081821 SEEP-A-EFFLUENT-RAIN-24-081821	August 18, 2021	19:00	0.43

Notes

1 3.95 inches of rain fell on July 19, damaging the ISCO autosamplers at Seep A and interrupting the 14-day composite cycle. O&M staff responded by re-programming the samplers to collect two, 24-hour composite samples on July 23 and July 30 to complete the monthly sampling program.

2 The ISCO autosamplers at Seep A malfunctioned from August 17-19, interrupting the collection of aliquots early in the 14-day composite cycle. O&M staff re-programmed the samplers to collect two, 24-hour composites on August 20 and 28 to complete the monthly sampling program.

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

4 Sample Identification Label Key for samples collected on July 14 and July 30, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

5 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam

Table 2b
Sampling Summary - Seep B
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-B-INFLUENT-312-140721 SEEP-B-EFFLUENT-312-140721	July 1 - July 14, 2021	July 14, 2021
SEEP-B-INFLUENT-282-073121 SEEP-B-EFFLUENT-336-310721	July 17 - July 31, 2021	July 31, 2021
SEEP-B-INFLUENT-336-081721 SEEP-B-EFFLUENT-336-081721	August 3 - August 17, 2021	August 17, 2021
SEEP-B-INFLUENT-24-082021 SEEP-B-EFFLUENT-24-082021	August 19 - August 20, 2021	August 20, 2021
SEEP-B-INFLUENT-24-082821 SEEP-B-EFFLUENT-24-082821	August 27 - August 28, 2021	August 28, 2021

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-B-INFLUENT-RAIN-24-070921 SEEP-B-EFFLUENT-RAIN-24-070921	July 9, 2021	09:15	2.18
SEEP-B-INFLUENT-RAIN-24-081821 SEEP-B-EFFLUENT-RAIN-24-081821	August 18, 2021	19:00	0.43

Notes

1 As detailed in Note 2 of Table 2a, the Seep A autosamplers malfunctioned from August 17-19, interrupting the collection of aliquots early in the 14-day composite cycle. O&M staff re-programmed the Seep B samplers to be consistent with Seep A and collect two, 24-hour composites on August 20 and 28 to complete the monthly sampling program.

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

3 Sample Identification Label Key for samples collected on July 14, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

4 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam

Table 2c
Sampling Summary - Seep C
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-C-INFLUENT-336-140721 SEEP-C-EFFLUENT-336-140721	July 1 - July 14, 2021	July 14, 2021
SEEP-C-INFLUENT-336-310721 SEEP-C-EFFLUENT-336-310721	July 17 - July 31, 2021	July 31, 2021
SEEP-C-INFLUENT-336-081721 SEEP-C-EFFLUENT-336-081721	August 3 - August 17, 2021	August 17, 2021
SEEP-C-INFLUENT-24-082021 SEEP-C-EFFLUENT-24-082021	August 19 - August 20, 2021	August 20, 2021
SEEP-C-INFLUENT-24-082821 SEEP-C-EFFLUENT-24-082821	August 27 - August 28, 2021	August 28, 2021

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-C-INFLUENT-RAIN-24-070921 SEEP-C-EFFLUENT-RAIN-24-070921	July 9, 2021	09:00	2.18
SEEP-C-INFLUENT-RAIN-24-081821 SEEP-C-EFFLUENT-RAIN-24-081821	August 18, 2021	19:00	0.43

Notes

1 As detailed in Note 2 of Table 2a, the Seep A autosamplers malfunctioned from August 17-19, interrupting the collection of aliquots early in the 14-day composite cycle. O&M staff re-programmed the Seep B samplers to be consistent with Seep A and collect two, 24-hour composites on August 20 and 28 to complete the monthly sampling program.

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

3 Sample Identification Label Key for samples collected on July 14 and July 31, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

4 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam

Table 2d
Sampling Summary - Seep D
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-D-INFLUENT-24-140721 SEEP-D-EFFLUENT-336-140721	July 1 - July 14, 2021	July 14, 2021
SEEP-D-INFLUENT-330-310721 SEEP-D-EFFLUENT-336-073121	July 17 - July 31, 2021	July 31, 2021
SEEP-D-INFLUENT-306-081721 SEEP-D-EFFLUENT-336-081721	August 3 - August 17, 2021	August 17, 2021
SEEP-D-INFLUENT-24-082021 SEEP-D-EFFLUENT-24-082021	August 19 - August 20, 2021	August 20, 2021
SEEP-D-INFLUENT-24-082821 SEEP-D-EFFLUENT-24-082821	August 27 - August 28, 2021	August 28, 2021

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-D-INFLUENT-RAIN-24-070921 SEEP-D-EFFLUENT-RAIN-24-070921	July 9, 2021	09:00	2.18
SEEP-D-INFLUENT-RAIN-24-081821 SEEP-D-EFFLUENT-RAIN-24-081821	August 18, 2021	19:00	0.43

Notes

1 The influent autosampler at Seep D malfunctioned during the July 1-14 14-day composite cycle, resulting in insufficient aliquots for the composite. The O&M staff reprogrammed the sampler to collect a 24-hour composite from July 13-14.

2 As detailed in Note 2 of Table 2a, the Seep A autosamplers malfunctioned from August 17-19, interrupting the collection of aliquots early in the 14-day composite cycle. O&M staff re-programmed the Seep B samplers to be consistent with Seep A and collect two, 24-hour composites on August 20 and 28 to complete the monthly sampling program.

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

4 Sample Identification Label Key for samples collected on July 14 and July 31, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

5 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam

Table 3a
Summary of Performance Monitoring Analytical Results - Seep A
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-A-INFLUENT-300-140721** Sample Date: 14-Jul-21	**SEEP-A-EFFLUENT-336-140721** Sample Date: 14-Jul-21	**Percent Removal**	**SEEP-A-INFLUENT-24-072321** Sample Date: 23-Jul-21	**SEEP-A-EFFLUENT-24-072321** Sample Date: 23-Jul-21	**Percent Removal**	**SEEP-A-INFLUENT-24-300721** Sample Date: 30-Jul-21	**SEEP-A-EFFLUENT-24-300721** Sample Date: 30-Jul-21	**Percent Removal**
Hfpo Dimer Acid	**24,000**	<2.0	100.0%	**19,000**	**2.3**	> 99.9%	**27,000**	<2.0	100.0%
PFMOAA	**63,000**	**10**	> 99.9%	**49,000**	**31**	99.9%	**83,000**	<2.0	100.0%
PFO2HxA	**33,000**	**2**	> 99.9%	**26,000**	**8.3**	> 99.9%	**39,000**	<2.0	100.0%
PFO3OA	**12,000**	<2.0	100.0%	**9,700**	**2.2**	> 99.9%	**15,000**	<2.0	100.0%
PFO4DA	**6,400**	<2.0	100.0%	**5,800**	<2.0	100.0%	**7,500**	<2.0	100.0%
PFO5DA	**3,500**	<2.0	100.0%	**4,100**	<2.0	100.0%	**3,400**	<2.0	100.0%
PMPA	**22,000**	**11**	> 99.9%	**17,000**	<10	100.0%	**25,000**	<10	100.0%
PEPA	**7,600**	<20	100.0%	**6,000**	<20	100.0%	**9,300**	<20	100.0%
PS Acid	**3,500**	<2.0	100.0%	**3,400**	<2.0	100.0%	**5,100**	<2.0	100.0%
Hydro-PS Acid	**1,000**	<2.0	100.0%	**870**	<2.0	100.0%	**1,500**	<2.0	100.0%
R-PSDA	**2,900**	<2.0	100.0%	**1,800**	<2.0	100.0%	**3,400**	<2.0	100.0%
Hydrolyzed PSDA	**32,000**	<2.0	100.0%	**16,000**	<2.0	100.0%	**38,000**	<2.0	100.0%
R-PSDCA	**42**	<2.0	100.0%	**32**	<2.0	100.0%	**58**	<2.0	100.0%
NVHOS, Acid Form	**980**	<2.0	100.0%	**670**	<2.0	100.0%	**1,400**	<2.0	100.0%
EVE Acid	**710**	<2.0	100.0%	**780**	<2.0	100.0%	**900**	<2.0	100.0%
Hydro-EVE Acid	**1,300**	<2.0	100.0%	**1,100**	<2.0	100.0%	**1,800**	<2.0	100.0%
R-EVE	**1,400**	<2.0	100.0%	**960**	<2.0	100.0%	**1,500**	<2.0	100.0%
PES	<6.7	<2.0	100.0%	<6.7	<2.0	100.0%	**77**	<2.0	100.0%
PFECA B	<27	<2.0	100.0%	<27	<2.0	100.0%	**51**	<2.0	100.0%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**180,000**	**23**	**> 99.9%**	**140,000**	**44**	**> 99.9%**	**220,000**	ND	**100%**
Total Table 3+ (20 compounds)[1]	**220,000**	**23**	**> 99.9%**	**160,000**	**44**	**> 99.9%**	**260,000**	ND	**100%**

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]"
Sample Identification Label Key for samples collected on July 14 and July 30, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 3a
Summary of Performance Monitoring Analytical Results - Seep A
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-A-INFLUENT-336-081721** Sample Date: 17-Aug-21	**SEEP-A-EFFLUENT-306-081721** Sample Date: 17-Aug-21	**Percent Removal**	**SEEP-A-INFLUENT-24-082021** Sample Date: 20-Aug-21	**SEEP-A-EFFLUENT-24-082021** Sample Date: 20-Aug-21	**Percent Removal**	**SEEP-A-INFLUENT-24-082821** Sample Date: 28-Aug-21	**SEEP-A-EFFLUENT-24-082821** Sample Date: 28-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**22,000**	**8**	> 99.9%	**23,000**	**6.5**	> 99.9%	**25,000**	**65**	99.7%
PFMOAA	**75,000**	**50**	99.9%	**77,000**	**27**	> 99.9%	**70,000**	**310**	99.6%
PFO2HxA	**34,000**	**16**	> 99.9%	**32,000**	**10**	> 99.9%	**37,000**	**140**	99.6%
PFO3OA	**12,000**	**2.5**	> 99.9%	**11,000**	<2.0	100.0%	**13,000**	**29**	99.8%
PFO4DA	**5,600**	<2.0	100.0%	**6,300**	<2.0	100.0%	**7,000**	**7.7**	99.9%
PFO5DA	**3,600**	<2.0	100.0%	**4,100**	<2.0	100.0%	**3,500**	**4.4**	99.9%
PMPA	**20,000**	**17**	99.9%	**21,000**	<10	100.0%	**18,000**	**200**	98.9%
PEPA	**6,000**	<20	100.0%	**6,400**	<20	100.0%	**7,400**	**37**	99.5%
PS Acid	**4,300**	<2.0	100.0%	**4,200**	<2.0	100.0%	**4,200**	**3.1**	99.9%
Hydro-PS Acid	**1,200**	<2.0	100.0%	**1,200**	<2.0	100.0%	**1,300**	<2.0	100.0%
R-PSDA	**2,100 J**	<2.0	100.0%	**1,700 J**	<2.0	100.0%	**2,200 J**	**7.5 J**	> 99.9%
Hydrolyzed PSDA	**23,000**	**5.8**	> 99.9%	**19,000 J**	**2.2 J**	> 99.9%	**23,000 J**	**73 J**	> 99.9%
R-PSDCA	**41**	<2.0	100.0%	**43**	<2.0	100.0%	**42**	<2.0	100.0%
NVHOS, Acid Form	**1,000**	<2.0	100.0%	**980**	<2.0	100.0%	**1,100**	**2.7**	99.8%
EVE Acid	**770**	<2.0	100.0%	**790**	<2.0	100.0%	**480**	<2.0	100.0%
Hydro-EVE Acid	**1,500**	<2.0	100.0%	**1,500**	<2.0	100.0%	**1,600**	<2.0	100.0%
R-EVE	**810**	<2.0	100.0%	**970 J**	<2.0	100.0%	**1,000 J**	**5.3 J**	> 99.9%
PES	<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%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**190,000**	**94**	**> 99.9%**	**190000**	**44**	**> 99.9%**	**190000**	**800**	**99.6%**
Total Table 3+ (20 compounds)[1]	**210,000**	**99**	**> 99.9%**	**210000**	**46**	**> 99.9%**	**220000**	**880**	**99.6%**

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]"
Sample Identification Label Key for samples collected on July 14 and July 30, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 3b
Summary of Performance Monitoring Analytical Results - Seep B
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-B-INFLUENT-312-140721** Sample Date: 14-Jul-21	**SEEP-B-EFFLUENT-312-140721** Sample Date: 14-Jul-21	**Percent Removal**	**SEEP-B-INFLUENT-282-073121** Sample Date: 31-Jul-21	**SEEP-B-EFFLUENT-336-310721** Sample Date: 31-Jul-21	**Percent Removal**	**SEEP-B-INFLUENT-336-081721** Sample Date: 17-Aug-21	**SEEP-B-EFFLUENT-336-081721** Sample Date: 17-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**35,000**	<2.0	100.0%	**31,000**	**3.4**	> 99.9%	**34,000**	<2.0	100.0%
PFMOAA	**49,000**	<2.0	100.0%	**54,000**	<2.0	100.0%	**71,000**	<2.0	100.0%
PFO2HxA	**20,000**	<2.0	100.0%	**21,000**	<2.0	100.0%	**24,000**	<2.0	100.0%
PFO3OA	**5,900**	<2.0	100.0%	**5,400**	<2.0	100.0%	**6,300**	<2.0	100.0%
PFO4DA	**1,600**	<2.0	100.0%	**1,300**	<2.0	100.0%	**1,400**	<2.0	100.0%
PFO5DA	**390**	<2.0	100.0%	**300**	<2.0	100.0%	**340**	<2.0	100.0%
PMPA	**44,000**	<10	100.0%	**35,000**	<10	100.0%	**42,000**	<10	100.0%
PEPA	**20,000**	<20	100.0%	**16,000**	<20	100.0%	**18,000**	<20	100.0%
PS Acid	**2,500**	<2.0	100.0%	**3,000**	<2.0	100.0%	**2,800**	<2.0	100.0%
Hydro-PS Acid	**890**	<2.0	100.0%	**980**	<2.0	100.0%	**1,100**	<2.0	100.0%
R-PSDA	**4,800**	<2.0	100.0%	**4,000**	<2.0	100.0%	**4,800 J**	<2.0	100.0%
Hydrolyzed PSDA	**33,000**	**2**	> 99.9%	**30,000**	<2.0	100.0%	**32,000**	<2.0	100.0%
R-PSDCA	**68**	<2.0	100.0%	**61**	<2.0	100.0%	**68**	<2.0	100.0%
NVHOS, Acid Form	**2000**	<2.0	100.0%	**1900**	<2.0	100.0%	**2,400**	<2.0	100.0%
EVE Acid	**3500**	<2.0	100.0%	**3500**	<2.0	100.0%	**3400**	<2.0	100.0%
Hydro-EVE Acid	**2,100**	<2.0	100.0%	**1,900**	<2.0	100.0%	**2,200**	<2.0	100.0%
R-EVE	**3,800**	<2.0	100.0%	**2800**	<2.0	100.0%	**2,800**	<2.0	100.0%
PES	<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%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**190,000**	ND	**100.0%**	**180,000**	**3.4**	**> 99.9%**	**210,000**	ND	**100.0%**
Total Table 3+ (20 compounds)[1]	**230,000**	**2.4**	**> 99.9%**	**210,000**	**3.4**	**> 99.9%**	**250,000**	ND	**100.0%**

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]"
Sample Identification Label Key for samples collected on July 14, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 3b
Summary of Performance Monitoring Analytical Results - Seep B
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-B-INFLUENT-24-082021** Sample Date: 20-Aug-21	**SEEP-B-EFFLUENT-24-082021** Sample Date: 20-Aug-21	**Percent Removal**	**SEEP-B-INFLUENT-24-082821** Sample Date: 28-Aug-21	**SEEP-B-EFFLUENT-24-082821** Sample Date: 28-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**41,000**	<2.0	100.0%	**32,000**	<2.0	100.0%
PFMOAA	**79,000**	<2.0	100.0%	**70,000**	<2.0	100.0%
PFO2HxA	**26,000**	<2.0	100.0%	**28,000**	<2.0	100.0%
PFO3OA	**6,500**	<2.0	100.0%	**7,200**	<2.0	100.0%
PFO4DA	**2,200**	<2.0	100.0%	**1,500**	<2.0	100.0%
PFO5DA	**660**	<2.0	100.0%	**300**	<2.0	100.0%
PMPA	**49,000**	<10	100.0%	**32,000**	<10	100.0%
PEPA	**20,000**	<20	100.0%	**17,000**	<20	100.0%
PS Acid	**3,100**	<2.0	100.0%	**1,300**	<2.0	100.0%
Hydro-PS Acid	**1,500**	<2.0	100.0%	**1,000**	<2.0	100.0%
R-PSDA	**4,000 J**	<2.0	100.0%	**3,600 J**	<2.0	100.0%
Hydrolyzed PSDA	**29,000 J**	<2.0	100.0%	**23,000 J**	<2.0	100.0%
R-PSDCA	**91**	<2.0	100.0%	**63**	<2.0	100.0%
NVHOS, Acid Form	**2,600**	<2.0	100.0%	**2,100**	<2.0	100.0%
EVE Acid	**3,700**	<2.0	100.0%	**860**	<2.0	100.0%
Hydro-EVE Acid	**3,000**	<2.0	100.0%	**2,000**	<2.0	100.0%
R-EVE	**3,200 J**	<2.0	100.0%	**2,200 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%
Total Table 3+ (17 compounds)[1,2]	**240,000**	ND	**100.0%**	**200,000**	ND	**100.0%**
Total Table 3+ (20 compounds)[1]	**270,000**	ND	**100.0%**	**220,000**	ND	**100.0%**

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]"
Sample Identification Label Key for samples collected on July 14, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 3c
Summary of Performance Monitoring Analytical Results - Seep C
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-C-INFLUENT-336-140721** Sample Date: 14-Jul-21	**SEEP-C-EFFLUENT-336-140721** Sample Date: 14-Jul-21	**Percent Removal**	**SEEP-C-INFLUENT-336-310721** Sample Date: 31-Jul-21	**SEEP-C-EFFLUENT-336-310721** Sample Date: 31-Jul-21	**Percent Removal**	**SEEP-C-INFLUENT-336-081721** Sample Date: 17-Aug-21	**SEEP-C-EFFLUENT-336-081721** Sample Date: 17-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**13,000**	**27**	99.8%	**13,000**	**55**	99.6%	**16,000**	**8**	> 99.9%
PFMOAA	**42,000**	**150**	99.6%	**43,000**	**270**	99.4%	**55,000**	**91**	99.8%
PFO2HxA	**16,000**	**41**	99.7%	**16,000**	**66**	99.6%	**20,000**	**14**	99.9%
PFO3OA	**5,800**	**9**	99.8%	**5,500**	**18**	99.7%	**6,400**	**2**	> 99.9%
PFO4DA	**2,100**	<2.0	100.0%	**1,800**	**5**	99.7%	**2,300**	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	**92**	<2.0	100.0%	**79**	<2.0	100.0%
PMPA	**7,700**	**41**	99.5%	**7,900**	**40**	99.5%	**8,900**	**18**	99.8%
PEPA	**2,300**	<20	100.0%	**2,500**	<20	100.0%	**2,200**	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	**240**	<2.0	100.0%	**350**	<2.0	100.0%	**370**	<2.0	100.0%
R-PSDA	**620**	<2.0	100.0%	**650**	**2**	99.7%	**880 J**	<2.0	100.0%
Hydrolyzed PSDA	**810**	<2.0	100.0%	**770**	**2**	99.7%	**1,200**	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	**460**	<2.0	100.0%	**540**	**2**	99.6%	**660**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	**880**	<2.0	100.0%	**900**	**2**	99.7%	**1,100**	<2.0	100.0%
R-EVE	**670**	<2.0	100.0%	**570**	<2.0	100.0%	**800**	<2.0	100.0%
PES	<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%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**90,000**	**270**	**99.7%**	**92,000**	**460**	**99.5%**	**110,000**	**130**	**99.9%**
Total Table 3+ (20 compounds)[1]	**93,000**	**270**	**99.7%**	**94,000**	**460**	**99.5%**	**120,000**	**130**	**99.9%**

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]"
Sample Identification Label Key for samples collected on July 14 and July 31, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 3c
Summary of Performance Monitoring Analytical Results - Seep C
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-C-INFLUENT-24-082021** Sample Date: 20-Aug-21	**SEEP-C-EFFLUENT-24-082021** Sample Date: 20-Aug-21	**Percent Removal**	**SEEP-C-INFLUENT-24-082821** Sample Date: 28-Aug-21	**SEEP-C-EFFLUENT-24-082821** Sample Date: 28-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**17,000**	**6.4**	> 99.9%	**19,000**	**11**	99.9%
PFMOAA	**60,000**	**59**	99.9%	**45,000**	**56**	99.9%
PFO2HxA	**20,000**	**10**	> 99.9%	**22,000**	**18**	99.9%
PFO3OA	**6,500**	<2.0	100.0%	**7,000**	**2.8**	> 99.9%
PFO4DA	**2,800**	<2.0	100.0%	**2,500**	<2.0	100.0%
PFO5DA	**88**	<2.0	100.0%	<78	<2.0	100.0%
PMPA	**9,400**	**17**	99.8%	**7,800**	**23**	99.7%
PEPA	**2,600**	<20	100.0%	**2,800**	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	**360**	<2.0	100.0%	**380**	<2.0	100.0%
R-PSDA	**580 J**	<2.0	100.0%	**790 J**	<2.0	100.0%
Hydrolyzed PSDA	**700 J**	<2.0	100.0%	**920 J**	<2.0	100.0%
R-PSDCA	**17**	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	**620**	<2.0	100.0%	**650**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	**1,300**	<2.0	100.0%	**1,200**	<2.0	100.0%
R-EVE	**550 J**	<2.0	100.0%	**640 J**	<2.0	100.0%
PES	**32**	<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%
Total Table 3+ (17 compounds)[1,2]	**120,000**	**92**	**99.9%**	**110,000**	**110**	**99.9%**
Total Table 3+ (20 compounds)[1]	**120,000**	**92**	**99.9%**	**110,000**	**110**	**99.9%**

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]"
Sample Identification Label Key for samples collected on July 14 and July 31, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 3d
Summary of Performance Monitoring Analytical Results - Seep D
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-D-INFLUENT-24-140721** Sample Date: 14-Jul-21	**SEEP-D-EFFLUENT-336-140721** Sample Date: 14-Jul-21	**Percent Removal**	**SEEP-D-INFLUENT-330-310721** Sample Date: 31-Jul-21	**SEEP-D-EFFLUENT-336-073121** Sample Date: 31-Jul-21	**Percent Removal**	**SEEP-D-INFLUENT-306-081721** Sample Date: 17-Aug-21	**SEEP-D-EFFLUENT-336-081721** Sample Date: 17-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**12,000**	<2.0	100.0%	**11,000**	<2.0	100.0%	**11,000**	<2.0	100.0%
PFMOAA	**53,000**	<2.0	100.0%	**56,000**	<2.0	100.0%	**55,000**	<2.0 UJ	100.0%
PFO2HxA	**18,000**	<2.0	100.0%	**18,000**	<2.0	100.0%	**18,000**	<2.0	100.0%
PFO3OA	**6,200**	<2.0	100.0%	**5,700**	<2.0	100.0%	**5,100**	<2.0	100.0%
PFO4DA	**1,700**	<2.0	100.0%	**1,600**	<2.0	100.0%	**1,400**	<2.0	100.0%
PFO5DA	**78**	<2.0	100.0%	**88**	<2.0	100.0%	<78	<2.0	100.0%
PMPA	**7,100**	<10	100.0%	**7,500**	<10	100.0%	**7,100**	<10	100.0%
PEPA	**2,100**	<20	100.0%	**2,100**	<20	100.0%	**1,600**	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	**210**	<2.0	100.0%	**260**	<2.0	100.0%	**220**	<2.0	100.0%
R-PSDA	**860**	<2.0	100.0%	**790**	<2.0	100.0%	**730 J**	<2.0	100.0%
Hydrolyzed PSDA	**2,000**	<2.0	100.0%	**2,300**	<2.0	100.0%	**2,000**	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	**580**	<2.0	100.0%	**620**	<2.0	100.0%	**720**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	**820**	<2.0	100.0%	**850**	<2.0	100.0%	**830**	<2.0	100.0%
R-EVE	**870**	<2.0	100.0%	**800**	<2.0	100.0%	**730**	<2.0	100.0%
PES	<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%
PFECA-G	<48	<2.0	100.0%	<48	<2.0	100.0%	<48	<2.0	100.0%
Total Table 3+ (17 compounds)[1,2]	**100,000**	ND	**100.0%**	**100,000**	ND	**100.0%**	**100,000**	ND	**100.0%**
Total Table 3+ (20 compounds)[1]	**110,000**	ND	**100.0%**	**110,000**	ND	**100.0%**	**100,000**	ND	**100.0%**

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]"
Sample Identification Label Key for samples collected on July 14 and July 31, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 3d
Summary of Performance Monitoring Analytical Results - Seep D
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-D-INFLUENT-24-082021** Sample Date: 20-Aug-21	**SEEP-D-EFFLUENT-24-082021** Sample Date: 20-Aug-21	**Percent Removal**	**SEEP-D-INFLUENT-24-082821** Sample Date: 28-Aug-21	**SEEP-D-EFFLUENT-24-082821** Sample Date: 28-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**13,000**	**5.3**	> 99.9%	**12,000**	<2.0	100.0%
PFMOAA	**60,000**	**15**	> 99.9%	**45,000**	<2.0	100.0%
PFO2HxA	**18,000**	**11**	99.9%	**17,000**	<2.0	100.0%
PFO3OA	**5,500**	**4.4**	99.9%	**5,000**	<2.0	100.0%
PFO4DA	**1,600**	<2.0	100.0%	**1,500**	<2.0	100.0%
PFO5DA	**110**	<2.0	100.0%	<78	<2.0	100.0%
PMPA	**7,000**	<10	100.0%	**5,100**	<10	100.0%
PEPA	**1,900**	<20	100.0%	**1,700**	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	**270**	<2.0	100.0%	**250**	<2.0	100.0%
R-PSDA	**560 J**	<2.0	100.0%	**430 J**	<2.0	100.0%
Hydrolyzed PSDA	**1,300 J**	<2.0	100.0%	**980 J**	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	**630**	<2.0	100.0%	**560**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	**950**	<2.0	100.0%	**870**	<2.0	100.0%
R-EVE	**580 J**	<2.0	100.0%	**320 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%
Total Table 3+ (17 compounds)[1,2]	**110,000**	**36**	**> 99.9%**	**89,000**	ND	**100.0%**
Total Table 3+ (20 compounds)[1]	**110,000**	**36**	**> 99.9%**	**91,000**	ND	**100.0%**

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]"
Sample Identification Label Key for samples collected on July 14 and July 31, 2021: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [DDMMYY]"

Table 4a
Summary of Wet Weather Analytical Results - Seep A
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-A-INFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**SEEP-A-EFFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**Percent Removal**	**SEEP-A-INFLUENT-RAIN-24-081821** Sample Date: 18-Aug-21	**SEEP-A-EFFLUENT-RAIN-24-081821** Sample Date: 18-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**14,000**	<2.0	100.0%	**25,000**	**5**	> 99.9%
PFMOAA	**34,000**	**10**	> 99.9%	**79,000**	**29**	> 99.9%
PFO2HxA	**17,000**	<2.0	100.0%	**32,000**	**8.4**	> 99.9%
PFO3OA	**6,400**	<2.0	100.0%	**11,000**	<2.0	100.0%
PFO4DA	**3,400**	<2.0	100.0%	**5,900**	<2.0	100.0%
PFO5DA	**2,000**	<2.0	100.0%	**3,400**	<2.0	100.0%
PMPA	**11,000**	<10	100.0%	**19,000**	**20**	99.9%
PEPA	**3,300**	<20	100.0%	**6,300**	<20	100.0%
PS Acid	**2,200**	<2.0	100.0%	**3,700**	<2.0	100.0%
Hydro-PS Acid	**630**	<2.0	100.0%	**1,300**	<2.0	100.0%
R-PSDA	**1,200**	<2.0	100.0%	**2,200 J**	<2.0	100.0%
Hydrolyzed PSDA	**11,000**	<2.0	100.0%	**25,000 J**	<2.0	100.0%
R-PSDCA	**25**	<2.0	100.0%	**46**	<2.0	100.0%
NVHOS, Acid Form	**520**	<2.0	100.0%	**1,000**	<2.0	100.0%
EVE Acid	**520**	<2.0	100.0%	**630**	<2.0	100.0%
Hydro-EVE Acid	**710**	<2.0	100.0%	**1,600**	<2.0	100.0%
R-EVE	**600**	<2.0	100.0%	**930 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%
Total Table 3+ (17 Compounds) [1,2]	**96,000**	**10**	**> 99.9%**	**190,000**	**63**	**> 99.9%**
Total Table 3+ (20 Compounds) [1]	**110,000**	**10**	**> 99.9%**	**220,000**	**63**	**> 99.9%**

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 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-B-INFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**SEEP-B-EFFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**Percent Removal**	**SEEP-B-INFLUENT-RAIN-24-081821** Sample Date: 18-Aug-21	**SEEP-B-EFFLUENT-RAIN-24-081821** Sample Date:	**Percent Removal**
Hfpo Dimer Acid	**27,000**	<2.0	100.0%	**40,000**	<2.0	100.0%
PFMOAA	**30,000**	<2.0	100.0%	**75,000**	**2.6**	> 99.9%
PFO2HxA	**13,000**	<2.0	100.0%	**24,000**	<2.0	100.0%
PFO3OA	**3,700**	<2.0	100.0%	**6,000**	<2.0	100.0%
PFO4DA	**1,200**	<2.0	100.0%	**1,400**	<2.0	100.0%
PFO5DA	**430**	<2.0	100.0%	**390**	<2.0	100.0%
PMPA	**30,000**	<10	100.0%	**42,000**	<10	100.0%
PEPA	**13,000**	<20	100.0%	**19,000**	<20	100.0%
PS Acid	**2,600**	<2.0	100.0%	**2,900**	<2.0	100.0%
Hydro-PS Acid	**800**	<2.0	100.0%	**1,300**	<2.0	100.0%
R-PSDA	**2,500**	<2.0	100.0%	**5,400 J**	<2.0	100.0%
Hydrolyzed PSDA	**17,000**	<2.0	100.0%	**36,000 J**	<2.0	100.0%
R-PSDCA	**60**	<2.0	100.0%	**76**	<2.0	100.0%
NVHOS, Acid Form	**1,400**	<2.0	100.0%	**2,500**	<2.0	100.0%
EVE Acid	**3,500**	<2.0	100.0%	**3,400**	<2.0	100.0%
Hydro-EVE Acid	**1,700**	<2.0	100.0%	**2,600**	<2.0	100.0%
R-EVE	**2,200**	<2.0	100.0%	**4,000 J**	<2.0	100.0%
PES	<6.7	<2.0	100.0%	**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%
Total Table 3+ (17 Compounds) [1,2]	**130,000**	ND	**100.0%**	**220,000**	**3**	**> 99.9%**
Total Table 3+ (20 Compounds) [1]	**150,000**	ND	**100.0%**	**270,000**	**3**	**> 99.9%**

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 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-C-INFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**SEEP-C-EFFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**Percent Removal**	**SEEP-C-INFLUENT-RAIN-24-081821** Sample Date: 18-Aug-21	**SEEP-C-EFFLUENT-RAIN-24-081821** Sample Date: 18-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**6,600**	**8.3**	99.9%	**17,000**	**6**	> 99.9%
PFMOAA	**20,000**	**57**	99.7%	**56,000**	**51**	99.9%
PFO2HxA	**7,200**	**11**	99.8%	**18,000**	**8.3**	> 99.9%
PFO3OA	**2,500**	**3.2**	99.9%	**5,700**	<2.0	100.0%
PFO4DA	**1,000**	<2.0	100.0%	**1,900**	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	**81**	<2.0	100.0%
PMPA	**3,400**	**14**	99.6%	**9,100**	<10	100.0%
PEPA	**920**	<20	100.0%	**2,400**	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	**160**	<2.0	100.0%	**340**	<2.0	100.0%
R-PSDA	**240**	<2.0	100.0%	**1,100 J**	<2.0	100.0%
Hydrolyzed PSDA	**290**	<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	**230**	<2.0	100.0%	**620**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	**420**	<2.0	100.0%	**1,100**	<2.0	100.0%
R-EVE	**200**	<2.0	100.0%	**950 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%
Total Table 3+ (17 Compounds) [1,2]	**42,000**	**94**	**99.8%**	**110,000**	**66**	**99.9%**
Total Table 3+ (20 Compounds) [1]	**43,000**	**94**	**99.8%**	**120,000**	**66**	**99.9%**

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 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-D-INFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**SEEP-D-EFFLUENT-RAIN-24-070921** Sample Date: 09-Jul-21	**Percent Removal**	**SEEP-D-INFLUENT-RAIN-24-081821** Sample Date: 18-Aug-21	**SEEP-D-EFFLUENT-RAIN-24-081821** Sample Date: 18-Aug-21	**Percent Removal**
Hfpo Dimer Acid	**11,000**	<2.0	100.0%	**12,000**	<2.0	100.0%
PFMOAA	**44,000**	<2.0	100.0%	**48,000**	**3**	> 99.9%
PFO2HxA	**15,000**	<2.0	100.0%	**16,000**	<2.0	100.0%
PFO3OA	**4,400**	<2.0	100.0%	**5,000**	<2.0	100.0%
PFO4DA	**1,400**	<2.0	100.0%	**1,400**	<2.0	100.0%
PFO5DA	<78	<2.0	100.0%	<78	<2.0	100.0%
PMPA	**5,800**	<10	100.0%	**6,200**	<10	100.0%
PEPA	**1,600**	<20	100.0%	**1,700**	<20	100.0%
PS Acid	<20	<2.0	100.0%	<20	<2.0	100.0%
Hydro-PS Acid	**180**	<2.0	100.0%	**230**	<2.0	100.0%
R-PSDA	**460**	<2.0	100.0%	**730 J**	<2.0	100.0%
Hydrolyzed PSDA	**1,200**	<2.0	100.0%	**1,800 J**	<2.0	100.0%
R-PSDCA	<17	<2.0	100.0%	<17	<2.0	100.0%
NVHOS, Acid Form	**450**	<2.0	100.0%	**570**	<2.0	100.0%
EVE Acid	<17	<2.0	100.0%	<17	<2.0	100.0%
Hydro-EVE Acid	**700**	<2.0	100.0%	**830**	<2.0	100.0%
R-EVE	**520**	<2.0	100.0%	**890 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%
Total Table 3+ (17 Compounds) [1,2]	**85,000**	ND	**100.0%**	**92,000**	**3**	**> 99.9%**
Total Table 3+ (20 Compounds) [1]	**87,000**	ND	**100.0%**	**95,000**	**3**	**> 99.9%**

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 4 (July - August 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	259	62	0%	0.0	0%	0.0	0%	0.0	0%	0.0
A	126	62	0%	0.0	0%	0.0	0%	0.0	1%	1.8
B	85	62	0%	0.0	0%	0.0	0%	0.0	0%	0.0
D	69	62	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 (Jul - Aug 2021)	11.13
Current Reporting Period Historical Average (Jul - Aug 2004-2020)[2]	9.13
2021 Year-to-Date[3]	36.47
Historical Year-to-Date Average (2004-2020)[2]	27.44
Historical Annual Average (2004-2020)[2]	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 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (uS/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
7/6/2021	5.3	5.3	0.0	4.0	4.5	0.5	135	116	-19	25	24	-1	6.28	3.51	-2.77	0	0	0
7/9/2021	7.7	6.2	-1.5	4.1	4.4	0.3	76	86	10	20	26	6	253.84	0.33	-253.51	0	0	0
7/14/2021	7.5	8.0	0.5	4.1	4.3	0.2	364	561	197	20	23	3	82.92	0.32	-82.6	0	0	0
7/23/2021	7.4	7.5	0.1	4.2	7.1	2.9	104	77	-27	24	24	0	34.68	1.35	-33.33	0	0	0
7/30/2021	6.6	7.3	0.7	4.1	4.3	0.2	169	138	-31	31	31	0	2.89	0.00	-2.89	0	0	0
8/2/2021	5.9	3.6	-2.3	4.1	5.5	1.4	148	141	-7	20	22	2	13.75	0.00	-13.75	0	0	0
8/9/2021	5.4	5.7	0.3	4.1	4.8	0.7	127	288	161	24	23	-1	NM	NM	-	0	0	0
8/16/2021	5.5	5.9	0.4	4.2	4.7	0.5	140	121	-19	19	20	1	6.11	291.9 [1]	-	0	0	0
8/17/2021	7.5	7.2	-0.3	6.0	7.0	1	145	112	-33	19	21	2	161.93	0.00	-161.93	0	0	0
8/18/2021	6.1	6.2	0.1	6.5	5.6	-0.9	160	142	-18	33	32	-1	56.63	0.00	-56.63	0	0	0
8/20/2021	6.6	7.0	0.4	4.2	4.6	0.4	142	123	-19	29	32	3	71.17	0.35	-70.82	0	0	0
8/28/2021	6.8	6.8	0.0	4.0	7.0	3	148	115	-33	30	32	2	11.51	3.63	-7.88	0	0	0
Average	*6.5*	*6.4*	*-0.1*	*4.5*	*5.3*	*0.8*	*154.9*	*168.4*	*13.5*	*24.4*	*25.9*	*1.5*	*63.8*	*0.9*	*-62.9*	*0.0*	*0.0*	*0.0*
Median	*6.6*	*6.5*	*-0.1*	*4.1*	*4.7*	*0.6*	*143.3*	*121.8*	*-21.5*	*23.6*	*24.1*	*0.5*	*34.7*	*0.3*	*-34.4*	*0.0*	*0.0*	*0.0*

Notes:
1. The 08/16/2021 efffluent turbidity result is considered an outlier (based on Dixon's Q test) and is omitted from the calculations of average and median turbidity.

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

Table 6b
Water Quality Data - Seep B
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (uS/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
7/6/2021	4.7	4.0	-0.7	4.2	5.9	1.7	100	85	-15	23	24	1	1.80	3.11	1.31	0	0	0
7/9/2021	7.7	6.9	-0.8	4.6	5.8	1.2	66	75	9	20	21	1	188.48	0.36	-188.12	0	0	0
7/14/2021	6.4	7.2	0.8	4.5	6.1	1.6	98	82	-16	20	21	1	114.14	2.49	-111.65	0	0	0
7/31/2021	6.8	7.1	0.3	5.2	6.4	1.2	107	113	6	34	34	0	80.04	1.03	-79.01	0	0	0
8/2/2021	5.9	5.0	-0.9	4.1	5.4	1.3	114	107	-7	23	23	0	11.62	0.00	-11.62	0	0	0
8/9/2021	5.2	5.7	0.5	4.4	6.9	2.5	90	95	5	24	25	1	NM	NM	-	0	0	0
8/16/2021	4.0	3.6	-0.4	4.7	4.9	0.2	118	104	-14	26	27	1	0.00	3.14	3.14	0	0	0
8/17/2021	7.1	7.0	-0.1	5.3	5.0	-0.3	119	101	-18	24	25	1	19.68	0.00	-19.68	0	0	0
8/20/2021	6.7	6.5	-0.2	4.8	4.8	0	119	118	-1	34	32	-2	10.06	0.01	-10.05	0	0	0
8/28/2021	6.6	6.5	-0.1	4.2	4.6	0.4	118	166	48	33	34	1	2.04	2.23	0.19	0	0	0
Average	*6.1*	*5.9*	*-0.2*	*4.6*	*5.6*	*1.0*	*104.9*	*104.5*	*-0.4*	*26.3*	*26.6*	*0.3*	*47.5*	*1.4*	*-46.1*	*0.0*	*0.0*	*0.0*
Median	*6.5*	*6.5*	*0.0*	*4.6*	*5.6*	*1.0*	*110.4*	*102.2*	*-8.2*	*24.3*	*24.9*	*0.6*	*11.6*	*1.0*	*-10.6*	*0.0*	*0.0*	*0.0*

Notes:

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

Table 6c
Water Quality Data - Seep C
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (uS/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
7/6/2021	5.3	3.3	-2.0	6.0	6.3	0.3	79	109	30	26	25	-1	73.24	2.78	-70.46	0	0	0
7/9/2021	7.1	6.7	-0.4	5.5	7.0	1.5	55	66	11	24	26	2	221.47	14.31	-207.16	0	0	0
7/14/2021	6.7	6.8	0.1	6.9	6.6	-0.3	68	81	13	26	25	-1	162.70	1.62	-161.08	0	0	0
7/31/2021	6.9	7.0	0.1	6.3	7.3	1.0	98	93	-5	31	33	2	13.55	0.37	-13.18	0	0	0
8/2/2021	5.3	5.8	0.5	5.5	6.4	0.9	96	103	7	26	27	1	2.68	0.00	-2.68	0	0	0
8/9/2021	4.8	6.5	1.7	5.8	6.0	0.2	76	109	33	27	26	-1	NM	NM	-	0	0	0
8/16/2021	4.7	4.9	0.2	5.7	5.6	-0.1	83	79	-4	29	29	0	3.77	0.00	-3.77	0	0	0
8/17/2021	7.1	7.7	0.6	7.2	7.3	0.1	87	121	34	25	26	1	62.50	0.00	-62.50	0	0	0
8/18/2021	5.8	5.9	0.1	5.6	5.9	0.3	98	88	-10	37	36	-1	NM	NM	-	0	0	0
8/20/2021	6.1	6.7	0.6	6.0	5.7	-0.3	87	93	6	33	33	0	1.13	4.06	2.93	0	0	0
8/28/2021	4.8	6.4	1.6	6.2	6.3	0.1	80	84	4	35	36	1	4.27	3.82	-0.45	0	0	0
Average	*5.9*	*6.1*	*0.2*	*6.1*	*6.4*	*0.3*	*82.5*	*93.1*	*10.6*	*29.0*	*29.1*	*0.1*	*60.6*	*3.0*	*-57.6*	*0.0*	*0.0*	*0.0*
Median	*5.8*	*6.5*	*0.7*	*6.0*	*6.3*	*0.3*	*83.1*	*92.8*	*9.7*	*27.2*	*26.8*	*-0.4*	*13.6*	*1.6*	*-12.0*	*0.0*	*0.0*	*0.0*

Notes:

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

Table 6d
Water Quality Data - Seep D
Reporting Period 4 (July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (uS/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
7/6/2021	5.1	3.1	-2.0	3.9	5.6	1.7	136	98	-38	23	24	1	14.20	4.94	-9.26	0	0	0
7/9/2021	6.9	6.5	-0.4	3.6	5.6	2.0	125	99	-26	19	23	4	518.50	0.00	-518.50	0	0	0
7/14/2021	7.5	7.5	0.0	3.9	6.0	2.1	150	150	0	28	28	0	1.12	1.12	0.00	0	0	0
7/31/2021	7.0	7.2	0.2	3.9	5.6	1.7	146	113	-33	31	33	2	174.51	0.24	-174.27	0	0	0
8/2/2021	4.8	4.3	-0.5	4.0	4.9	0.9	129	118	-11	20	23	3	2.42	0.00	-2.42	0	0	0
8/9/2021	4.8	3.5	-1.3	4.1	4.9	0.8	115	102	-13	24	24	0	NM	NM	-	0	0	0
8/16/2021	3.5	4.7	1.2	4.2	5.5	1.3	135	120	-15	26	25	-1	9.16	0.00	-9.16	0	0	0
8/17/2021	7.2	7.1	-0.1	4.1	4.9	0.8	156	118	-38	26	26	0	84.25	0.00	-84.25	0	0	0
8/18/2021	6.3	6.3	0.0	4.3	4.5	0.2	127	127	0	33	33	0	NM	NM	-	0	0	0
8/20/2021	6.8	7.2	0.4	5.1	6.5	1.4	147	124	-23	29	30	1	87.50	2.02	-85.48	0	0	0
8/28/2021	6.7	7.1	0.4	3.9	4.7	0.8	156	108	-48	31	31	0	65.09	1.41	-63.68	0	0	0
Average	*6.1*	*5.9*	*-0.2*	*4.1*	*5.3*	*1.2*	*138.5*	*116.1*	*-22.4*	*26.4*	*27.3*	*0.9*	*106.3*	*1.1*	*-105.2*	*0.0*	*0.0*	*0*
Median	*6.7*	*6.5*	*-0.2*	*4.0*	*5.5*	*1.5*	*135.7*	*117.8*	*-17.9*	*25.8*	*25.6*	*-0.2*	*65.1*	*0.2*	*-64.9*	*0.0*	*0.0*	*0*

Notes:

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

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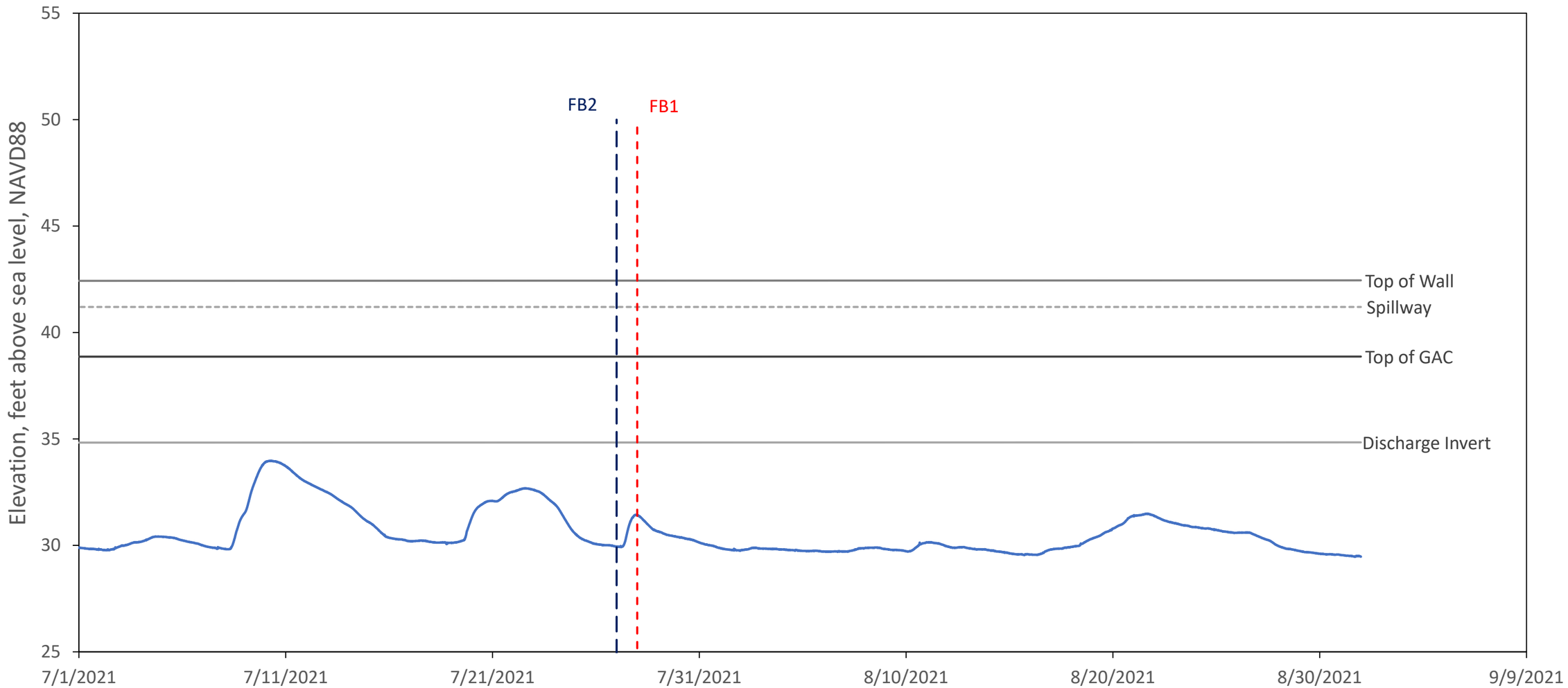
FIGURES

River Elevation During Flow Through Cell Operation (7/1/2021 through 08/31/2021)



Legend

River
GAC Changeout, Seep C
GAC Changeout, Seep A

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

River Level & FTC As-Built Elevations

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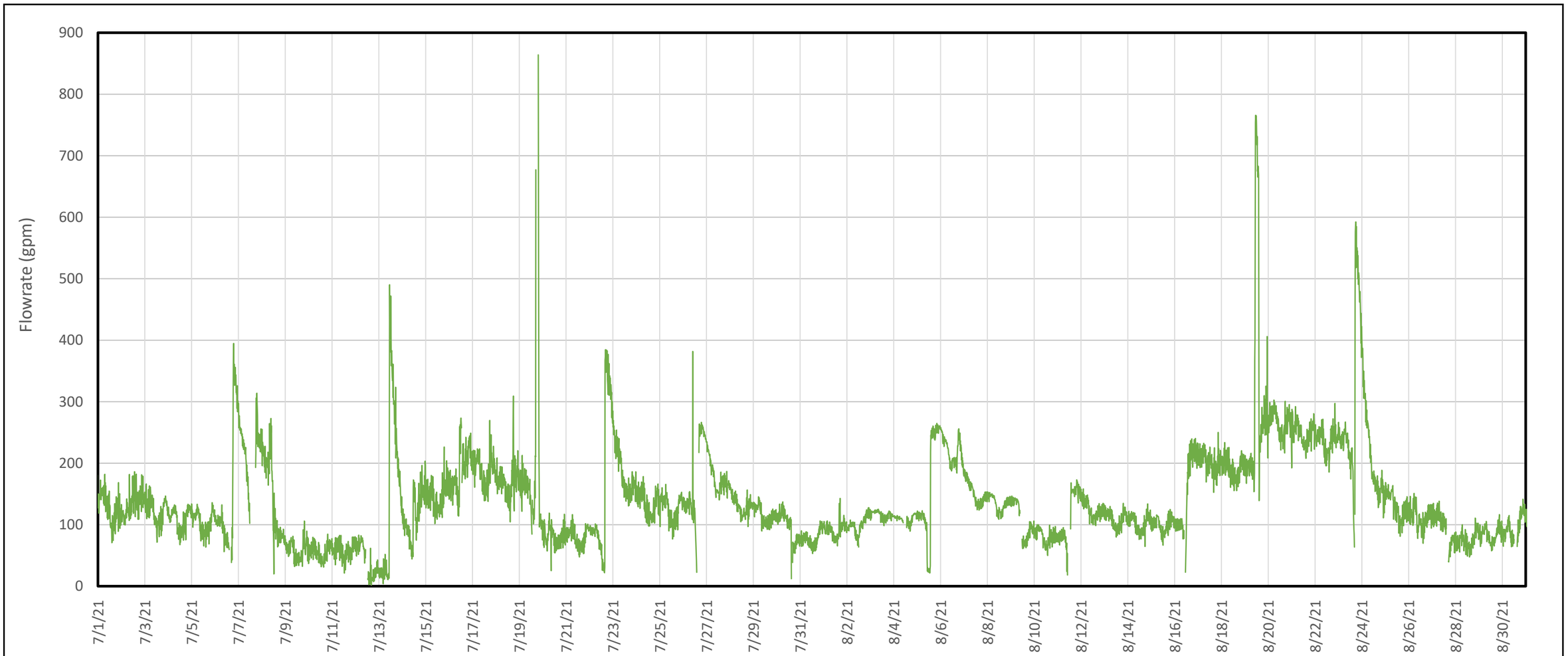
Figure 1



Legend

Measured Discharge Flowrate

Flowrate Statistics (gpm)

	(07/01 - 08/31)	Since Startup
Median	120	134
95th percentile	262	316
Max	864	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.

Measured Discharge Flowrate - Seep A

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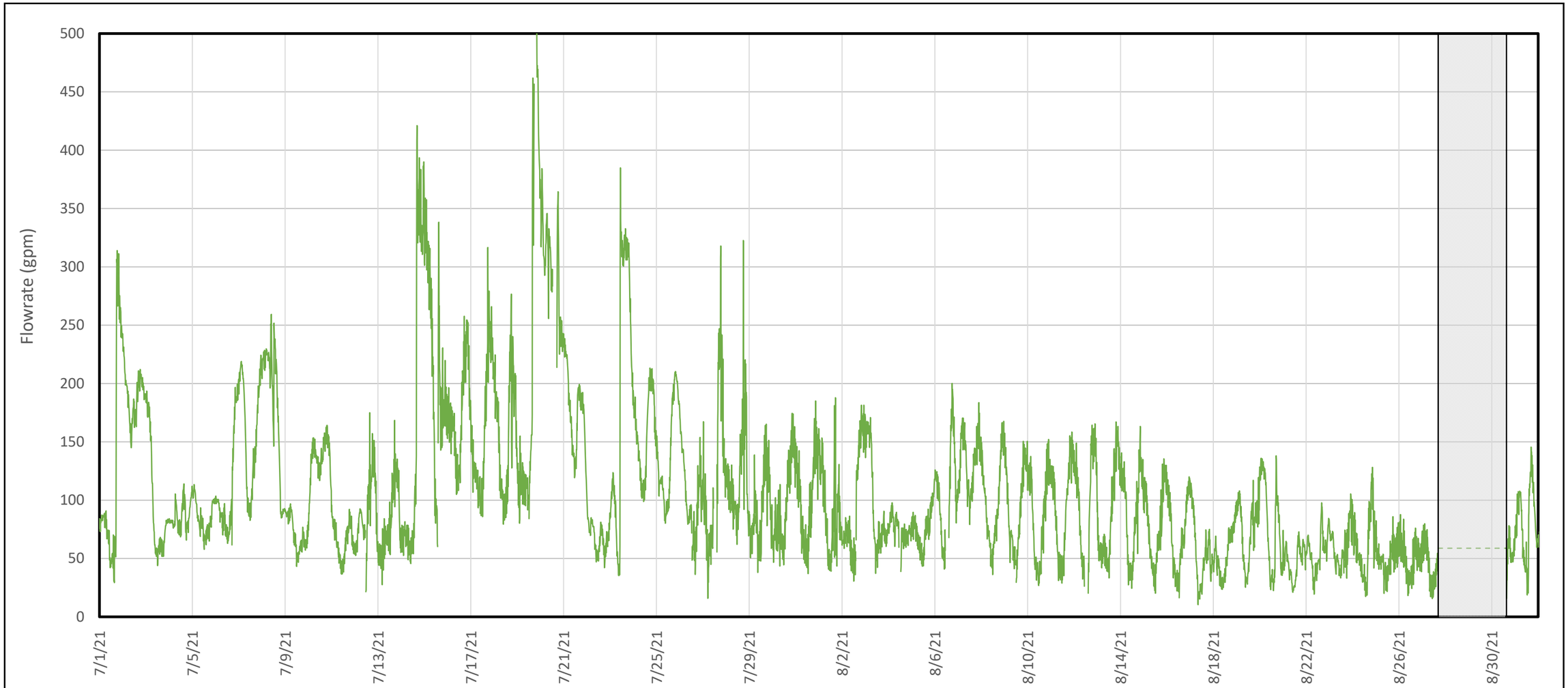
Figure 2A



Legend

- Measured Discharge Flowrate
- Imputed Discharge Flowrate
- Transducer Data Gap

Flowrate Statistics (gpm)

	(07/01 - 08/31)	Since Startup
Median	89	100
95th percentile	239	250
Max	1,153	1,153

Notes:

gpm - gallons per minute

Figure 2B depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data. Transducer data from August 27, 16:34 through August 30, 15:08 was not retrieved. Where transducer data was missing (grey shading) but flow through the System was observed (i.e., non-flooding conditions), flowrate was extrapolated (dashed green). The imputed flowrate was calculated as the median of measured flowrates from 3 days before and after the data gap. Section 3 describes the gaps in transducer data record.

For clarity, the vertical axis is limited to 500 gpm. The singularly high flowrate peak value (1,153 gpm) is a result of excessive rain (3.95") on July 19, 2021, which inundated the FTC systems and does not reflect normal conditions at the seep.

Measured Discharge Flowrate
(July - August 2021)
Chemours Fayetteville Works
Fayetteville, North Carolina

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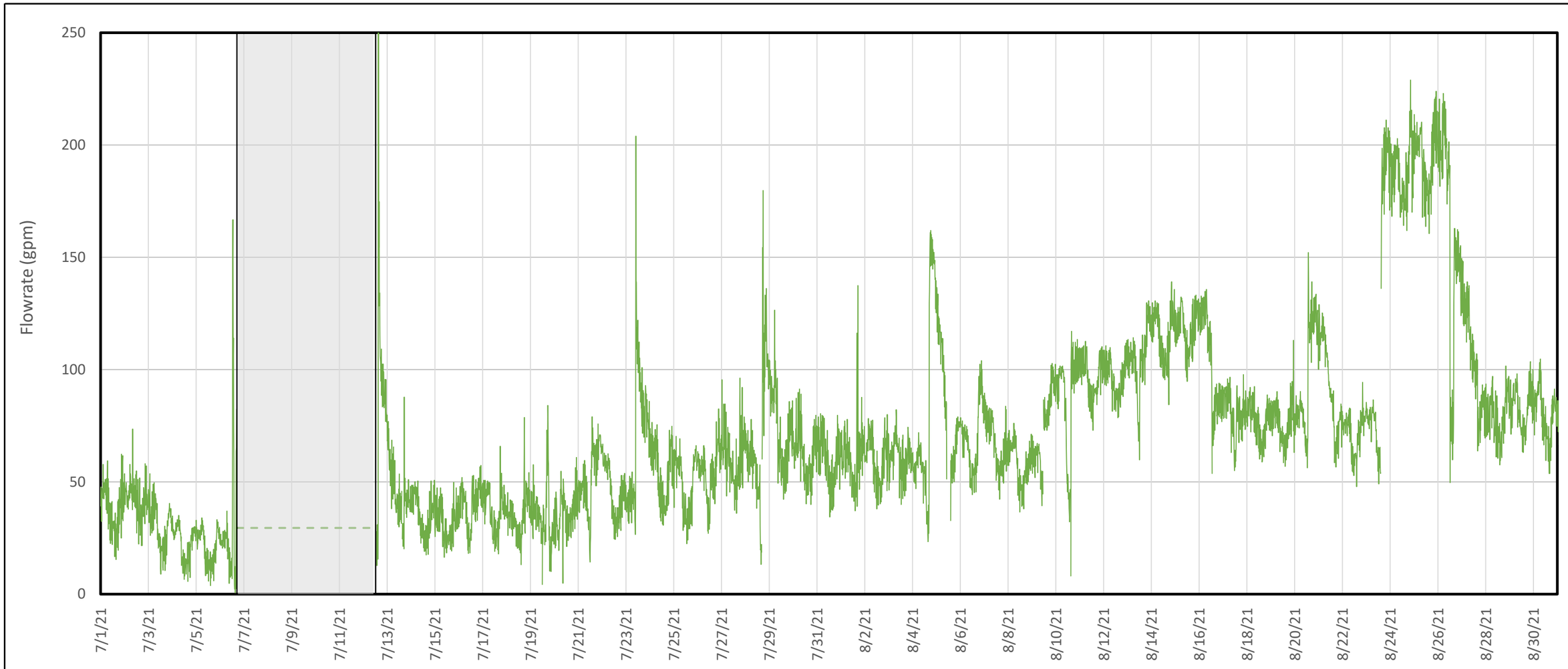
Figure 2B



Legend

- Measured Discharge Flowrate
- Imputed Discharge Flowrate
- Transducer Data Gap

Flowrate Statistics (gpm)

	(07/01 - 08/31)	Since Startup
Median	66	90
95th percentile	170	166
Max	328	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. Transducer data from July 6, 17:00 through July 12, 12:25 was not retrieved. Where transducer data was missing (grey shading) but flow through the System was observed (i.e., non-flooding conditions), flowrate was extrapolated (dashed green). The imputed flowrate was calculated as the median of measured flowrates from 3 days before and after the data gap. Section 3 describes the gaps in transducer data record.

Measured and Imputed Discharge Flowrate - Seep C

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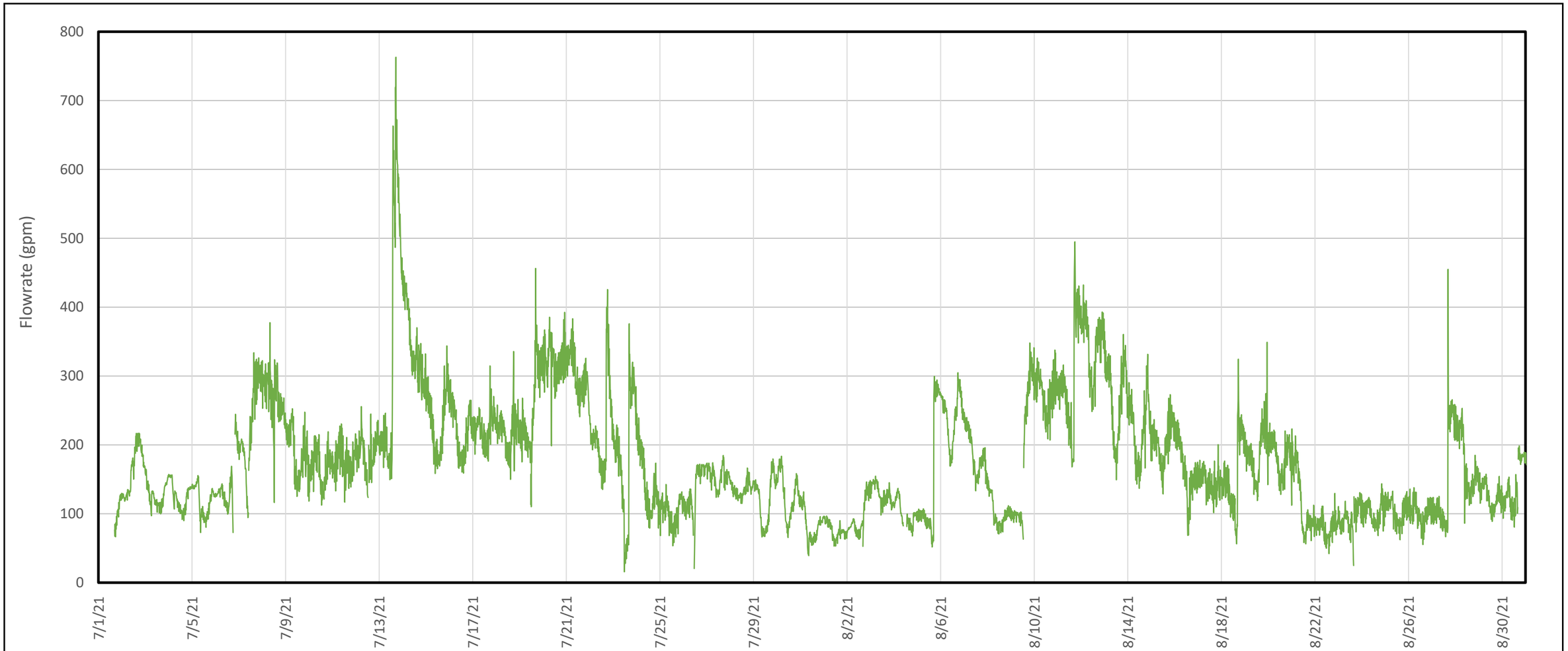
Figure 2C



Legend

- Measured Discharge Flowrate
- Imputed Discharge Flowrate

Flowrate Statistics (gpm)

	(07/01 - 08/31)	Since Startup
Median	159	159
95th percentile	333	333
Max	763	763

Notes:

gpm - gallons per minute

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

Measured Discharge Flowrate - Seep D

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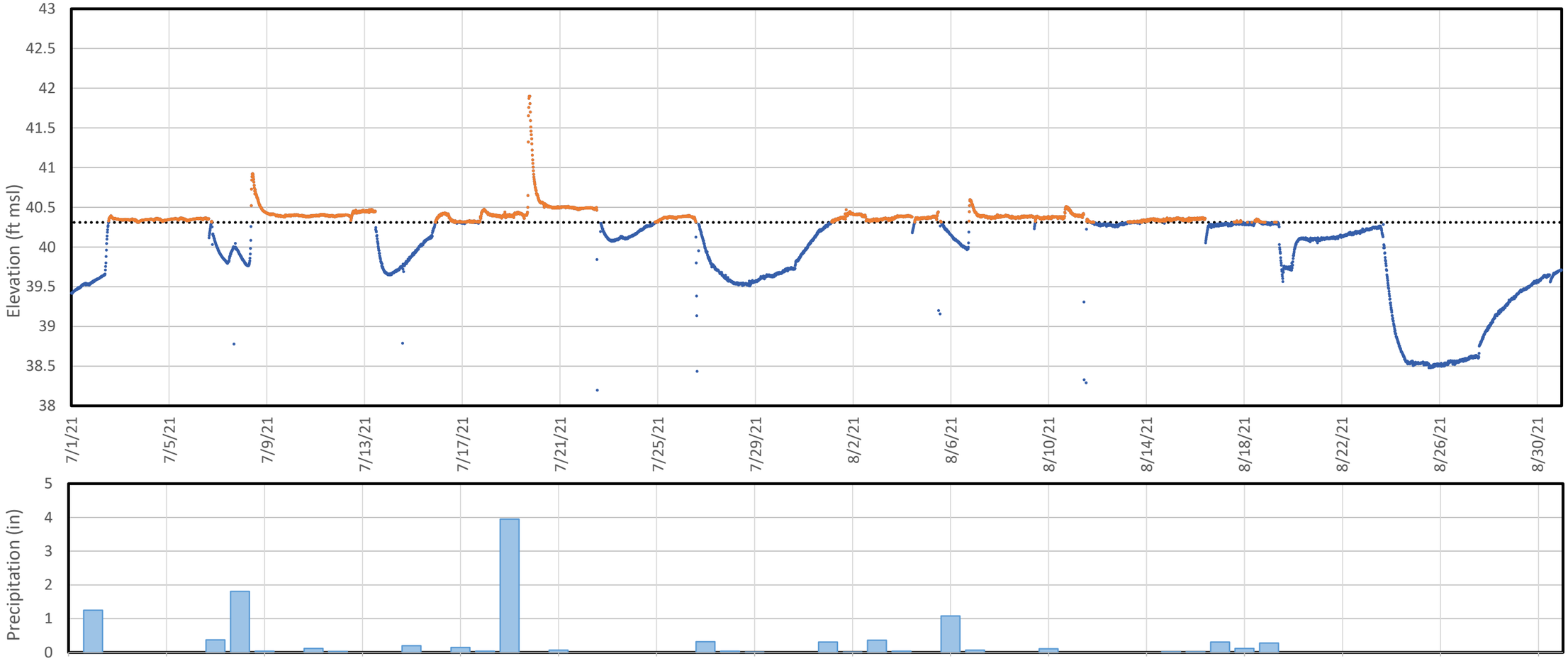
Figure 2D



Legend

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

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.

Influent Water Elevation and Bypass Flow - Seep A

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Fayetteville, North Carolina

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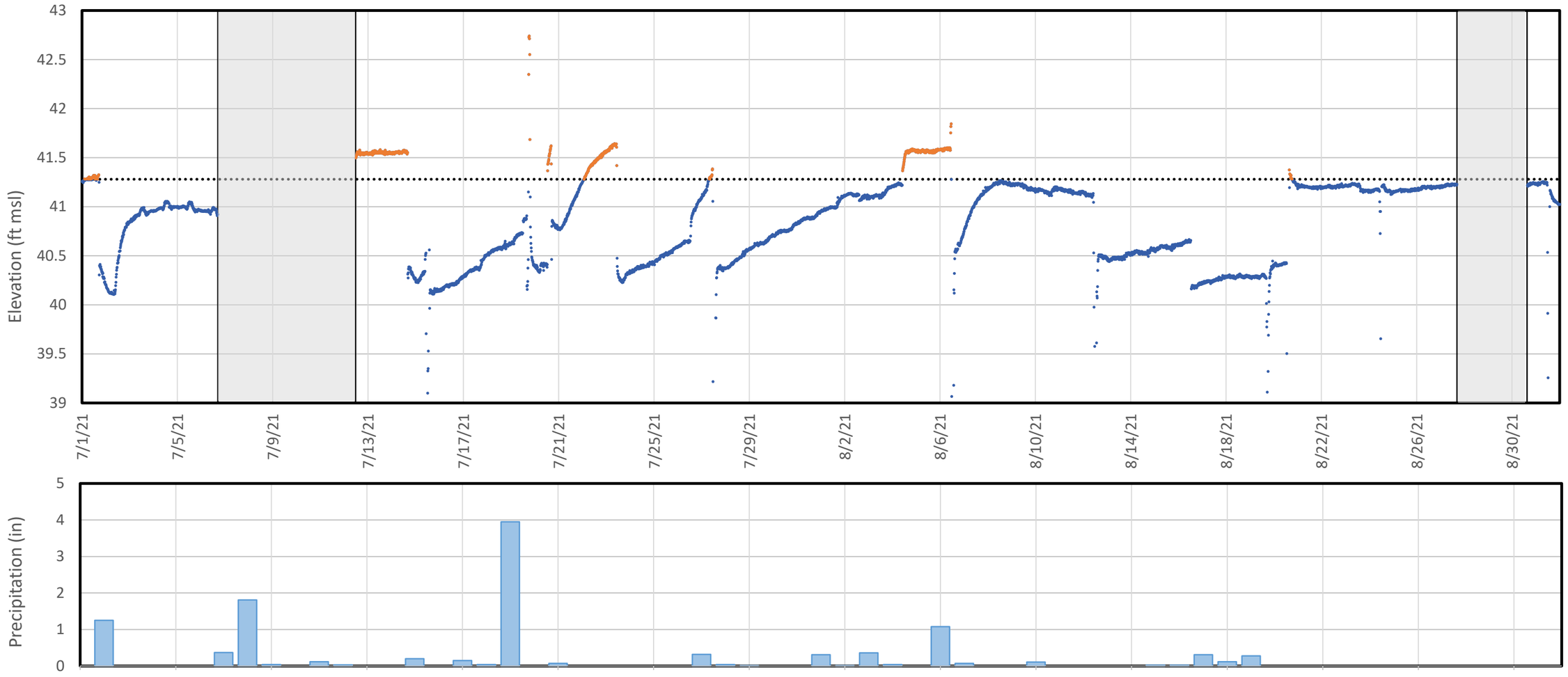
Figure 3A



Legend

- Influent Chamber/Impoundment Water Elevation
- Impoundment Water Elevation Above Bypass Spillway
- Bypass Spillway Elevation
- Precipitation (daily totals)
- Transducer Data Gap

Notes:

Figure 3 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.
Transducer data from July 6, 16:46 through July 12, 11:27 and from August 27, 16:34 to August 30, 15:08 were not retrieved. Section 3 describes the gaps in transducer data record.

Influent Water Elevation and Bypass Flow (July - August 2021)

Chemours Fayetteville Works
Fayetteville, North Carolina

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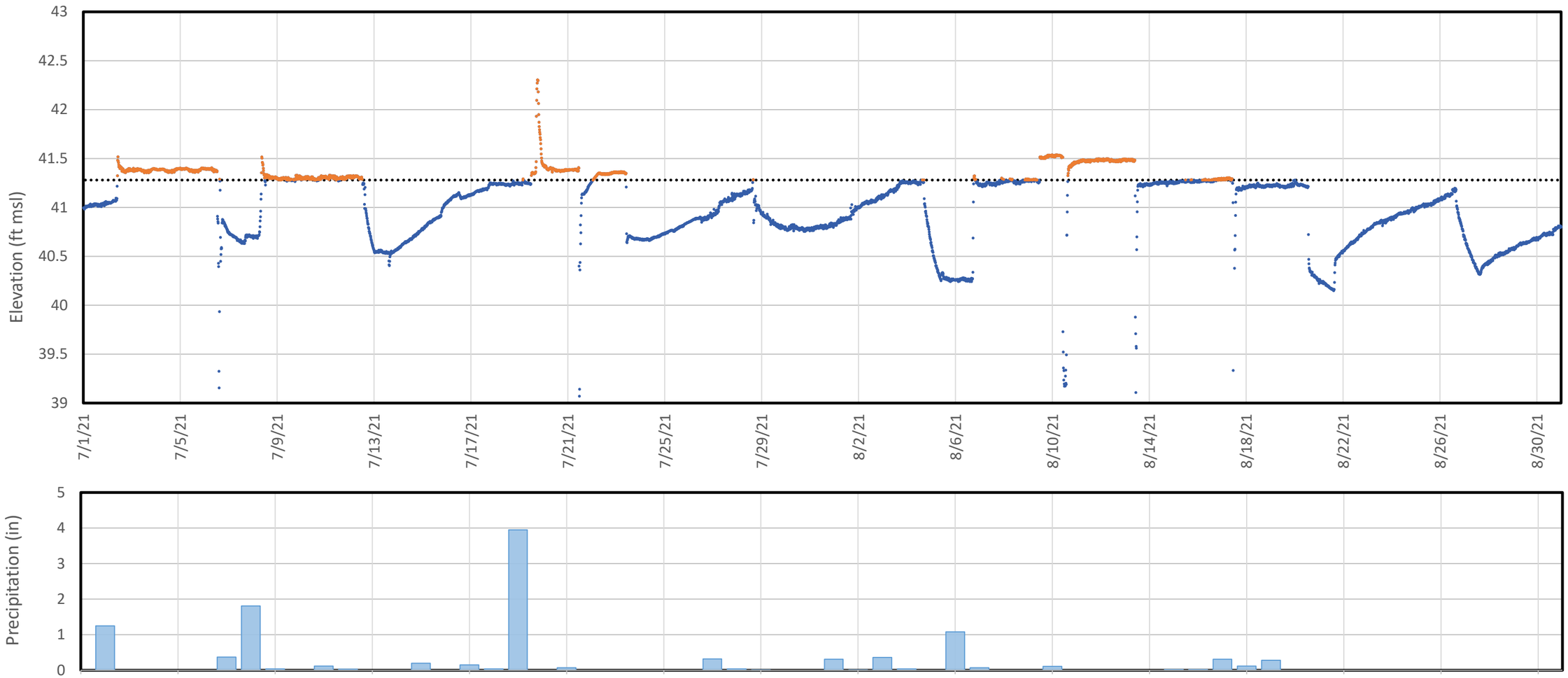
Figure 3B



Legend

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

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.

Influent Water Elevation and Bypass Flow - Seep C

Chemours Fayetteville Works
Fayetteville, North Carolina

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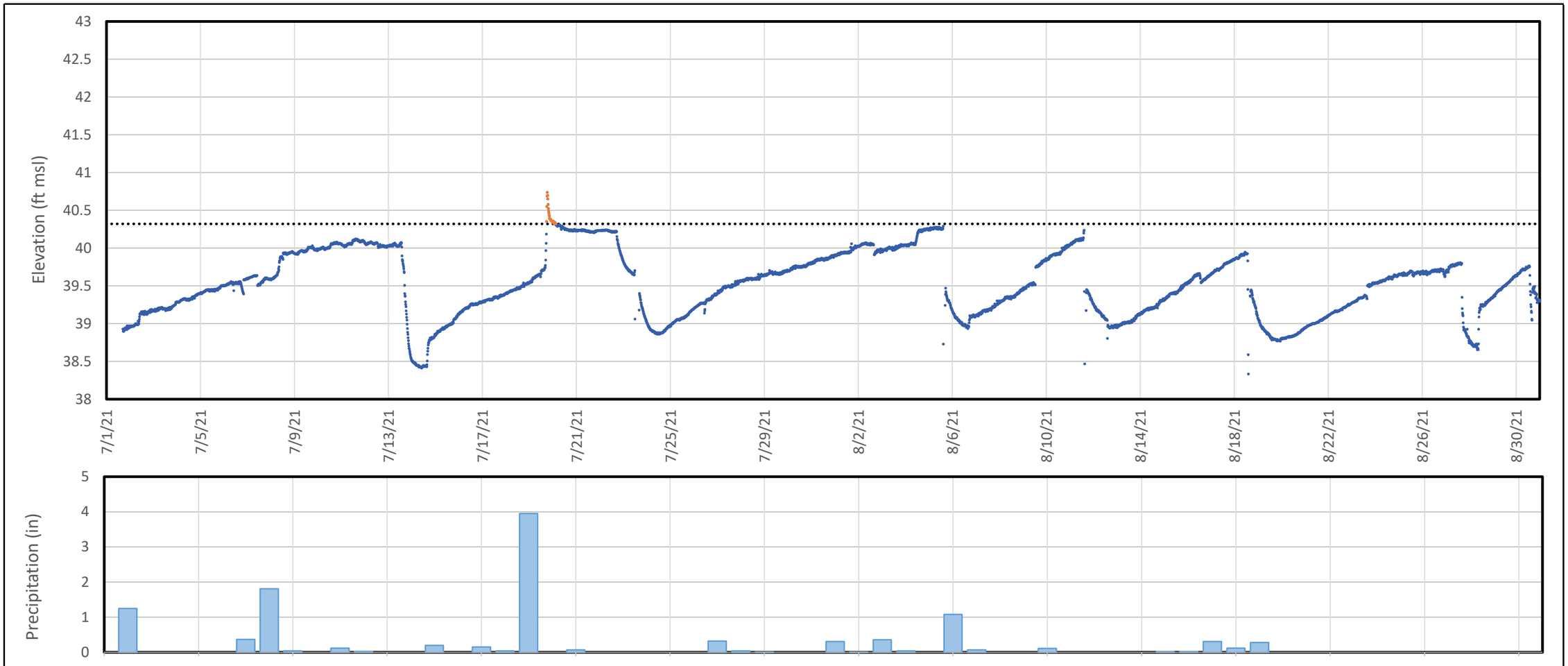
Figure 3C



Legend

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

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.

Influent Water Elevation and Bypass Flow - Seep D

Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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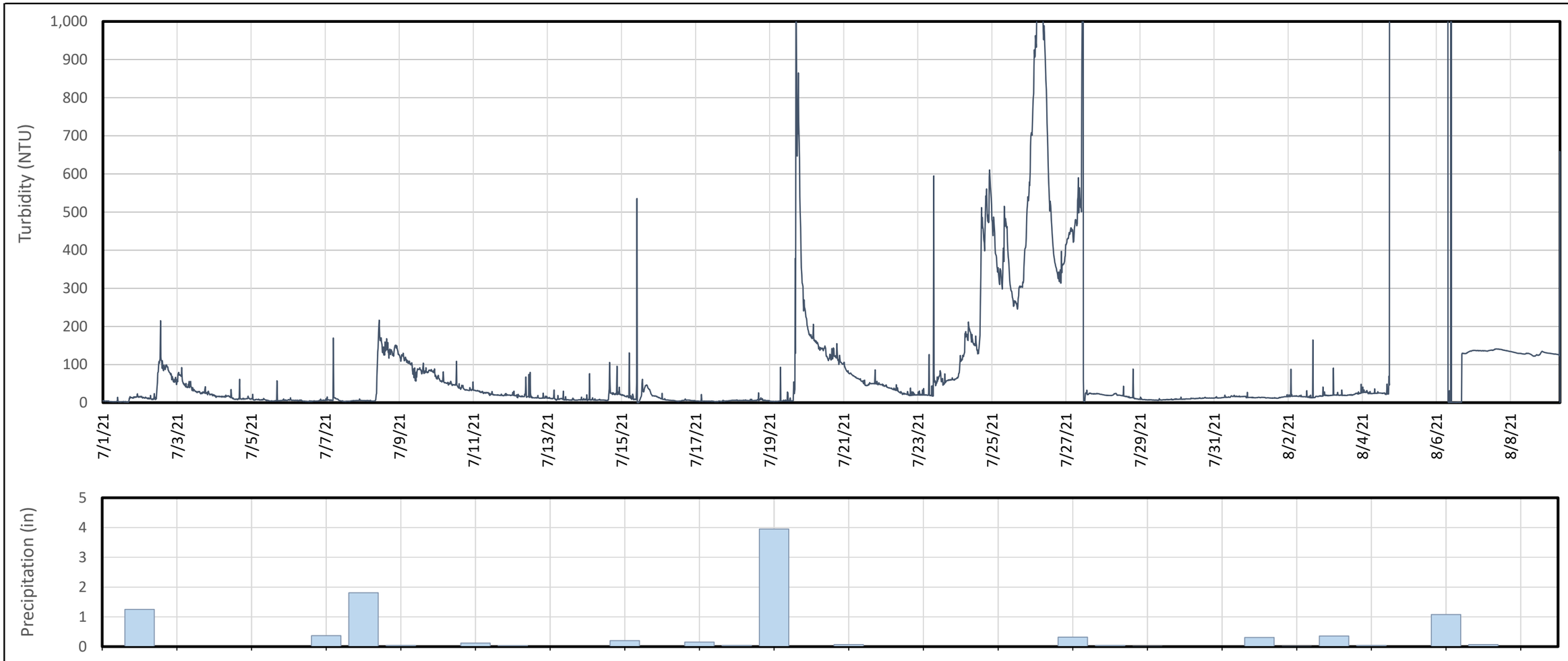
Figure 3D



Legend

- Turbidity
- Precipitation (daily totals)

Notes

NTU - Nephelometric Turbidity Unit
Turbidity data logged with a AquaTROLL Turbidiy Sensor placed in the Influent Stilling Basin.
The peak values recorded by the turbidity sensor (over 1,000 NTU) may be biased high, as the sensors can become clogged during high sediment-loading events. The interpretation of the turbidity data in the report is largely derived on the timing of the readings (i.e., baseline dry weather turbidity is very low and spikes after rain events). For clarity, the y-axis above is limited to 1,000 NTU.

Seep B Turbidity Logging and Precipitation (July - August 2021)

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Fayetteville, North Carolina

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Figure 4

Geosyntec consultants

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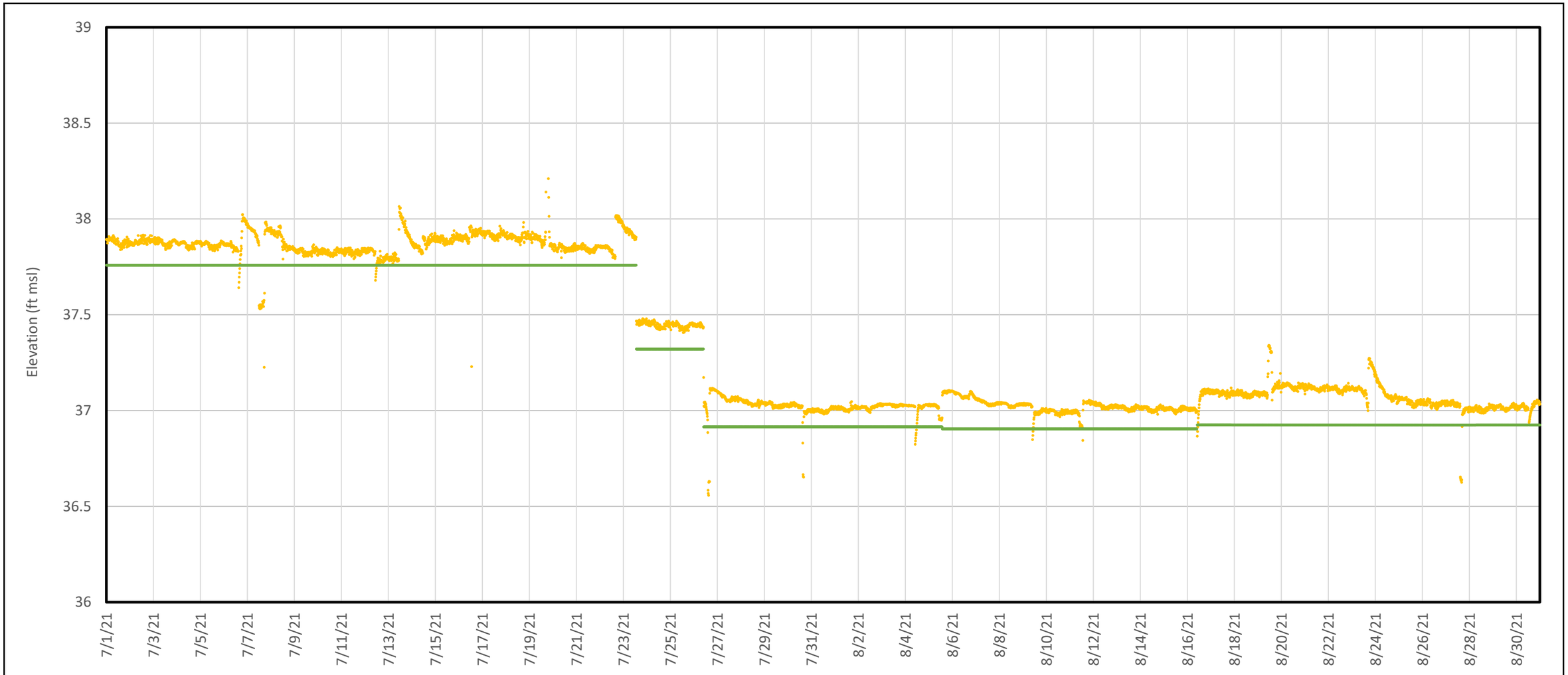
APPENDIX A
Transducer Data Reduction



Legend

- Discharge Basin Elevation
- Weir 3 Elevation

Notes:

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

Discharge Basin Water Elevation - Seep A

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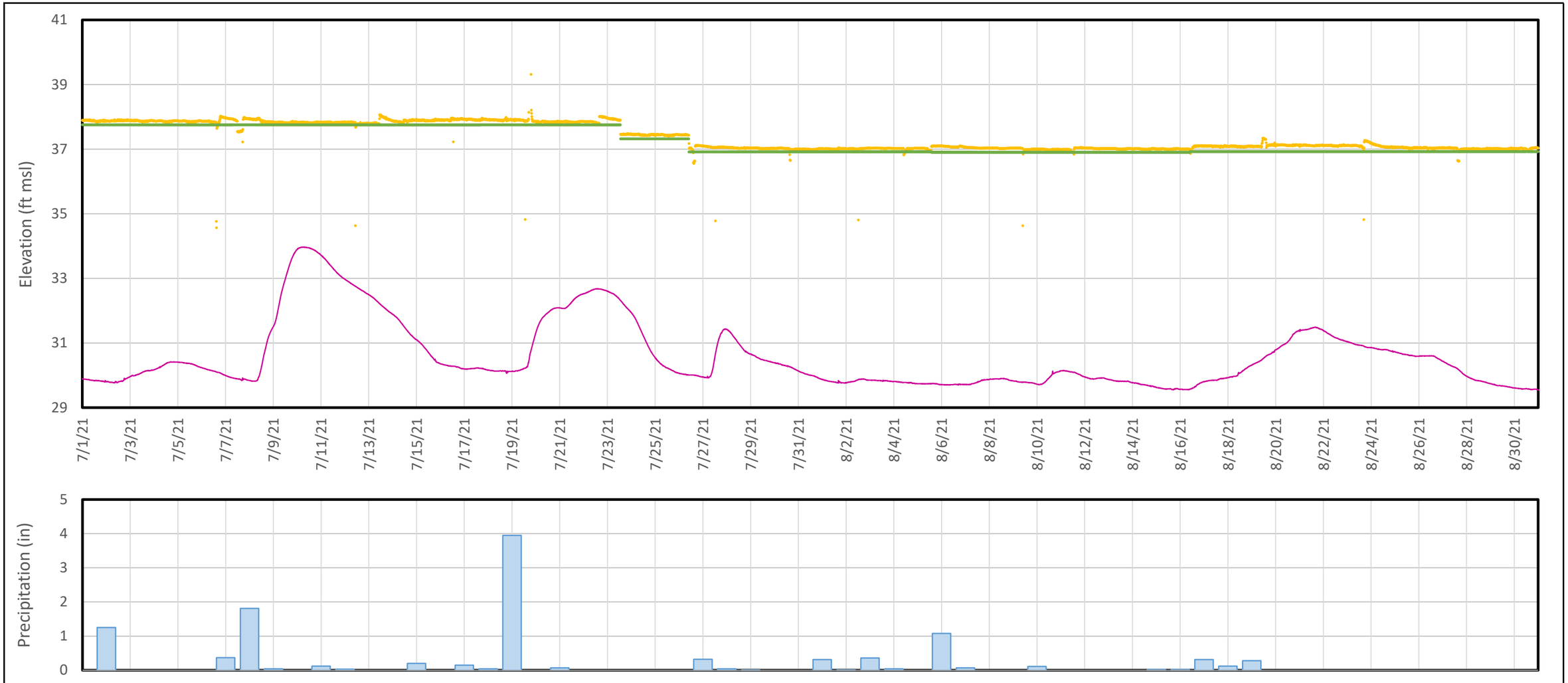
Figure A1-A



Legend

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

Notes:

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

Discharge Basin Water Elevation and External Forcings - Seep A

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Fayetteville, North Carolina

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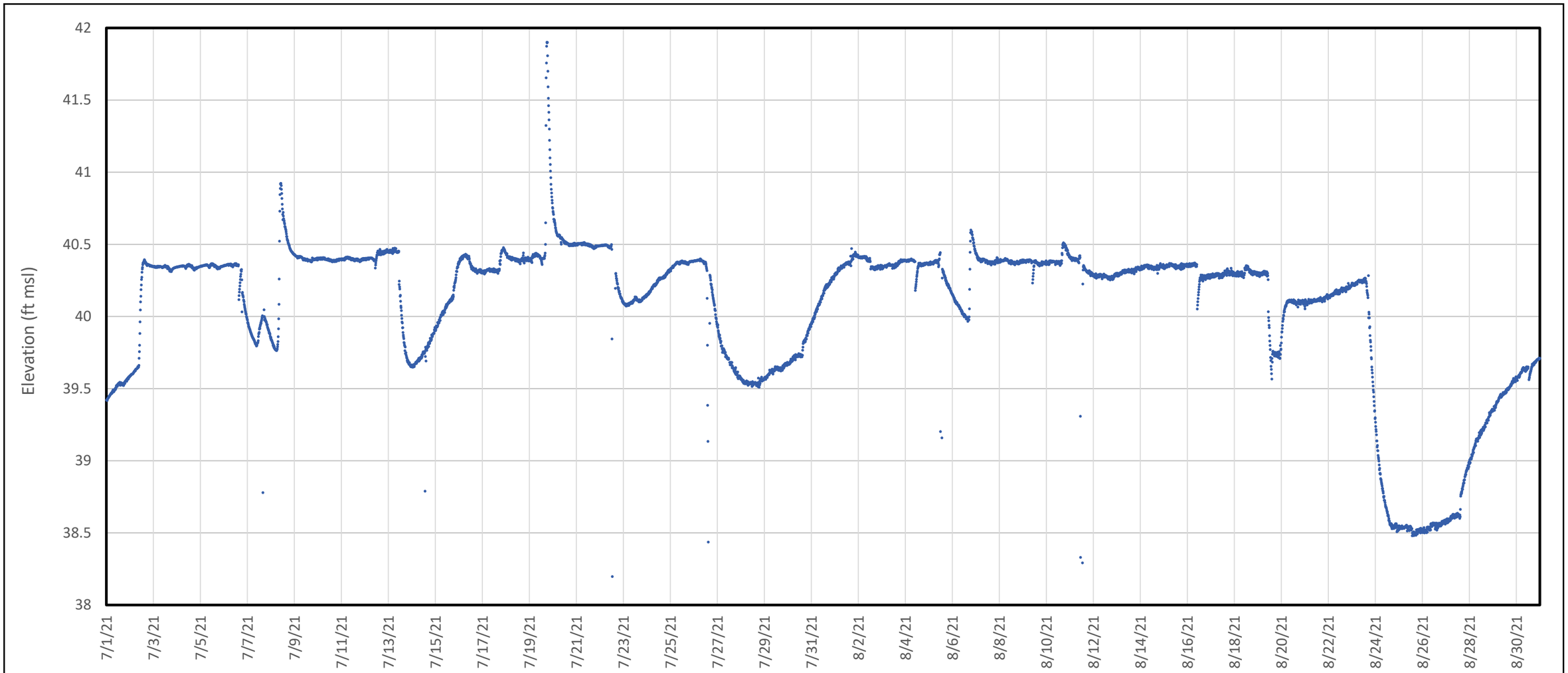
Figure A2-A



Legend

Influent Chamber/Impoundment Elevation

Notes:

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

Inlet Chamber Water Elevation - Seep A

Chemours Fayetteville Works
Fayetteville, North Carolina

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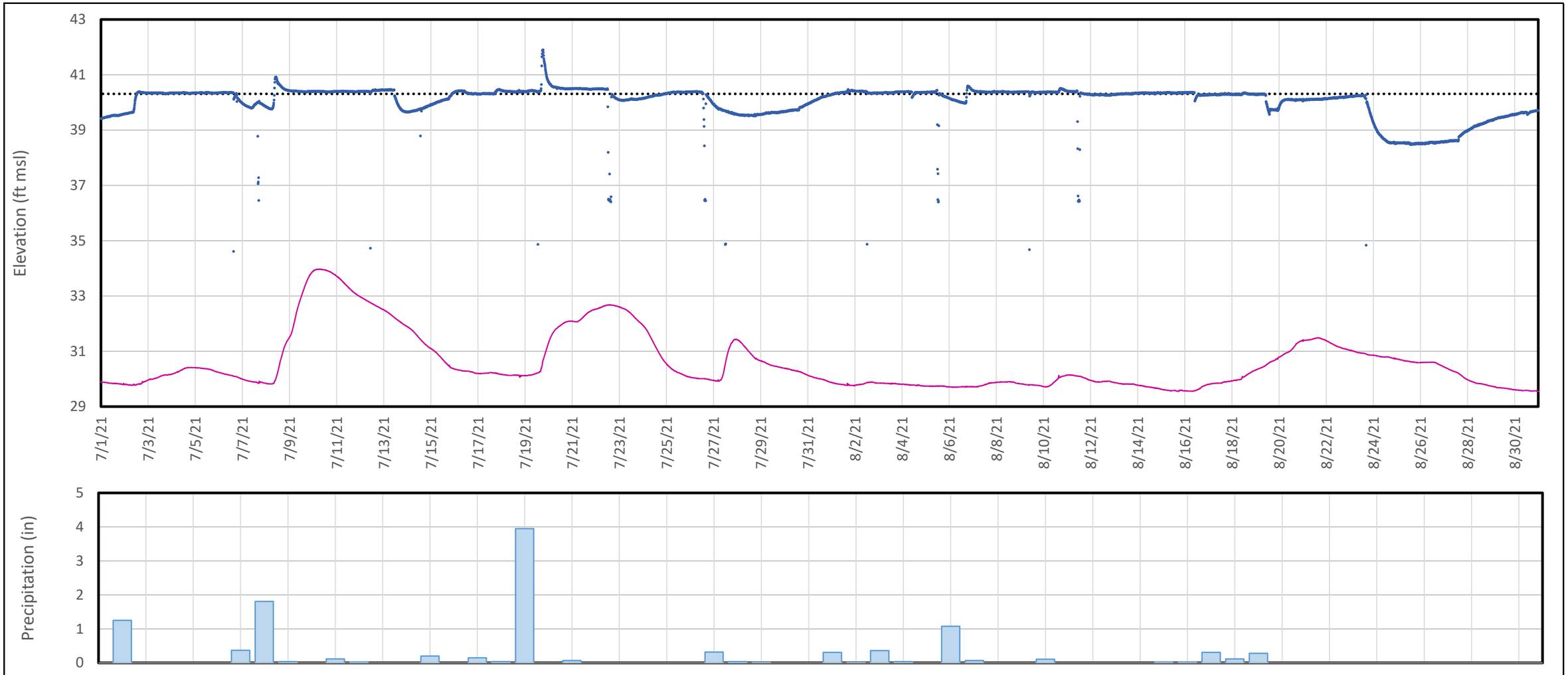
Figure A3-A



Legend

- Inlet Chamber Water Elevation
- River Stage
- Bypass Spillway Elevation
- 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 and river stage elevation data available from the USGS Huske Lock and Dam.

Inlet Chamber Water Elevation and External Forcings - Seep A

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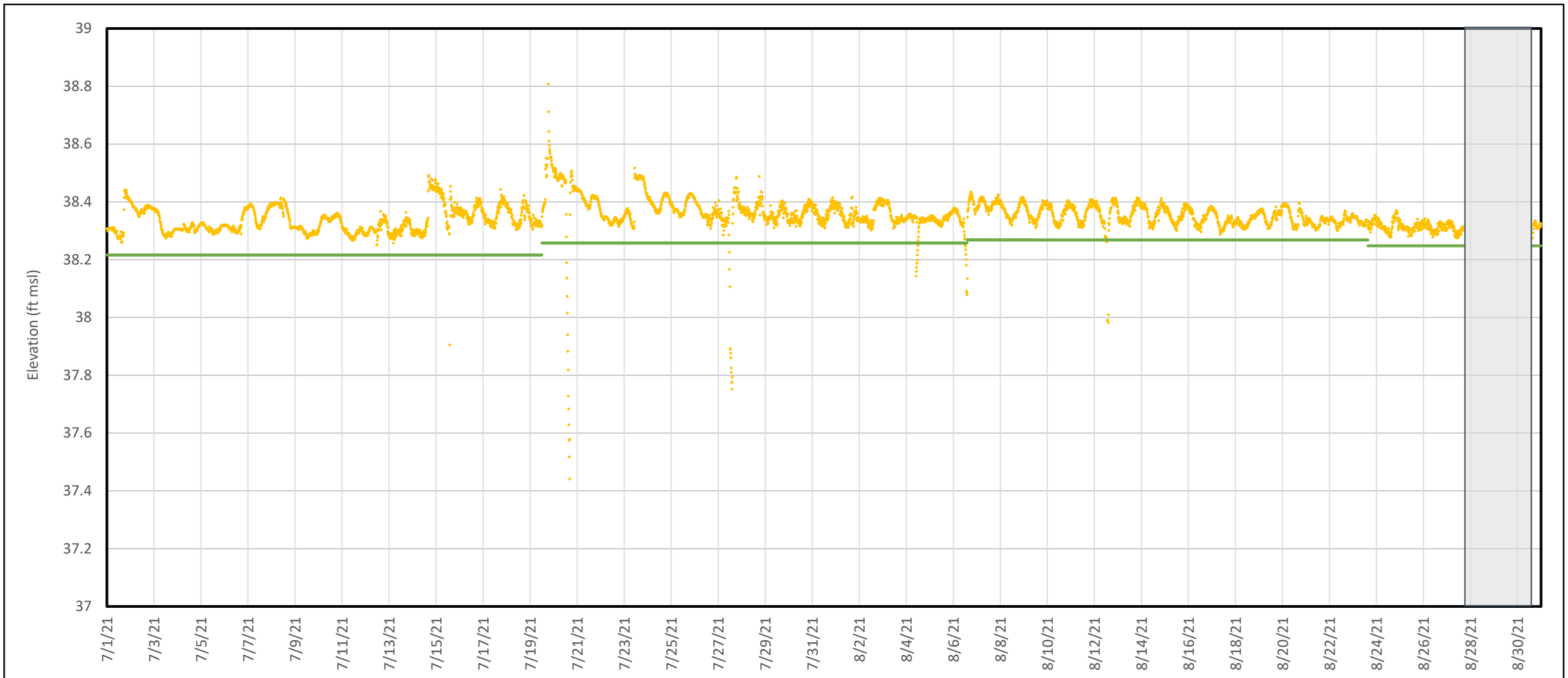
Figure A4-A



Legend

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

Notes:

Figure A1-B shows the discharge basin transducer data that was collected during the reporting period.
Transducer data from August 27, 16:34 through August 30, 15:08 was not retrieved. Section 3 describes the gaps in transducer data record.

Discharge Basin Water Elevation - Seep B

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Fayetteville, North Carolina

Geosyntec consultants

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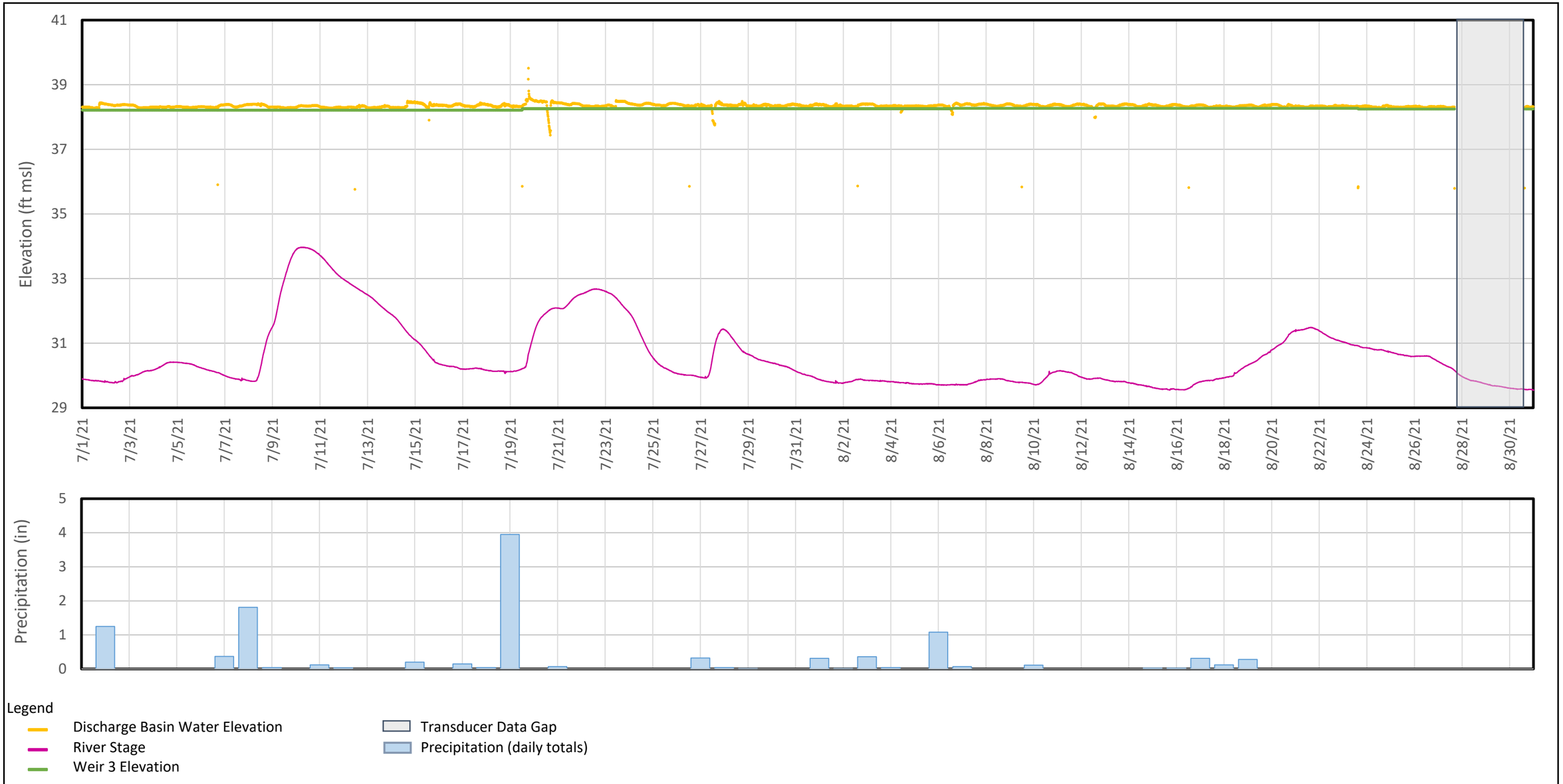
Figure A1-B



Legend

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

Notes:

As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-B compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.
Transducer data from August 27, 16:34 through August 30, 15:08 was not retrieved. Section 3 describes the gaps in transducer data record.

Discharge Basin Water Elevation and External Forcings - Seep B

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Fayetteville, North Carolina

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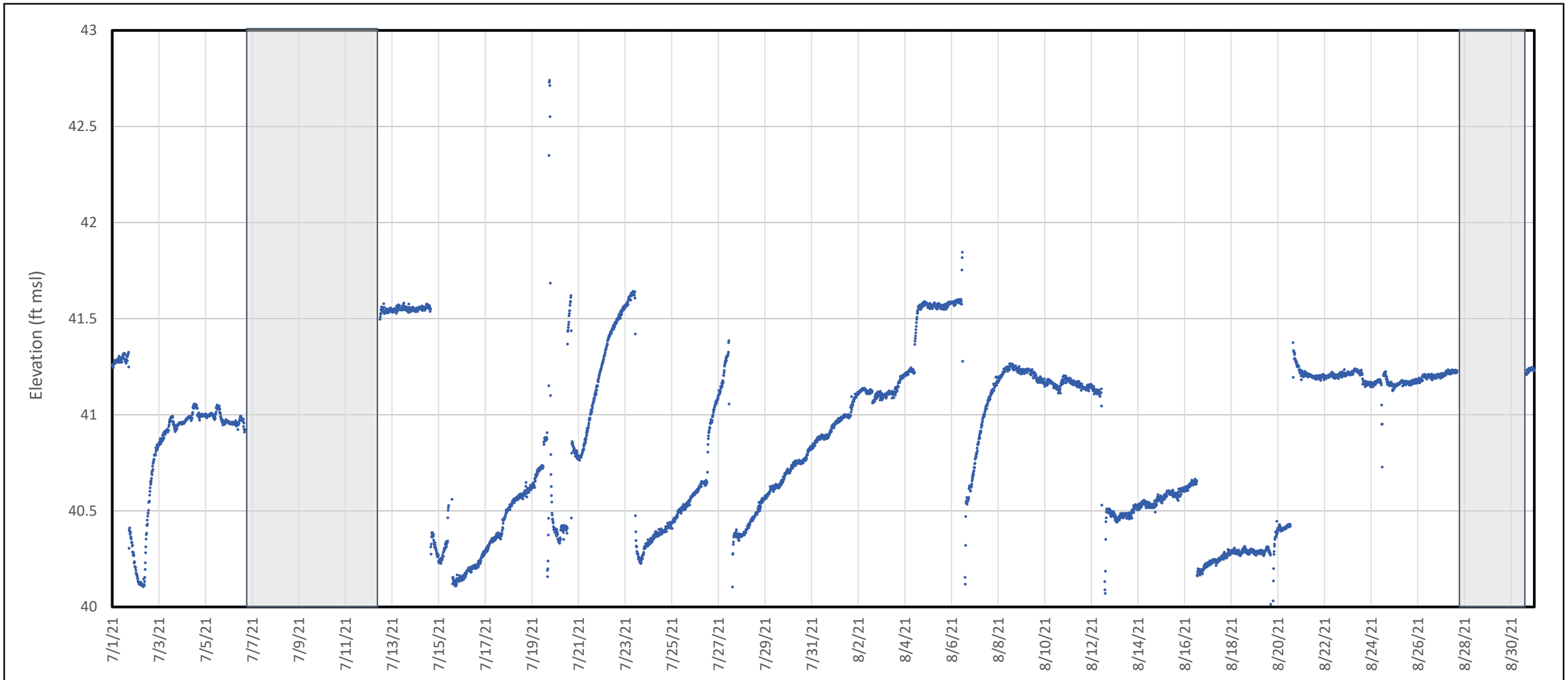
Figure A2-B



Legend

- Influent Chamber/Impoundment Elevation
- Transducer Data Gap

Notes:

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

Transducer data from July 6, 16:46 through July 12, 11:27 and from August 27, 16:34 to August 30, 15:08 were not retrieved. Section 3 describes the gaps in transducer data record.

Inlet Chamber Water Elevation - Seep B

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Fayetteville, North Carolina

Geosyntec consultants

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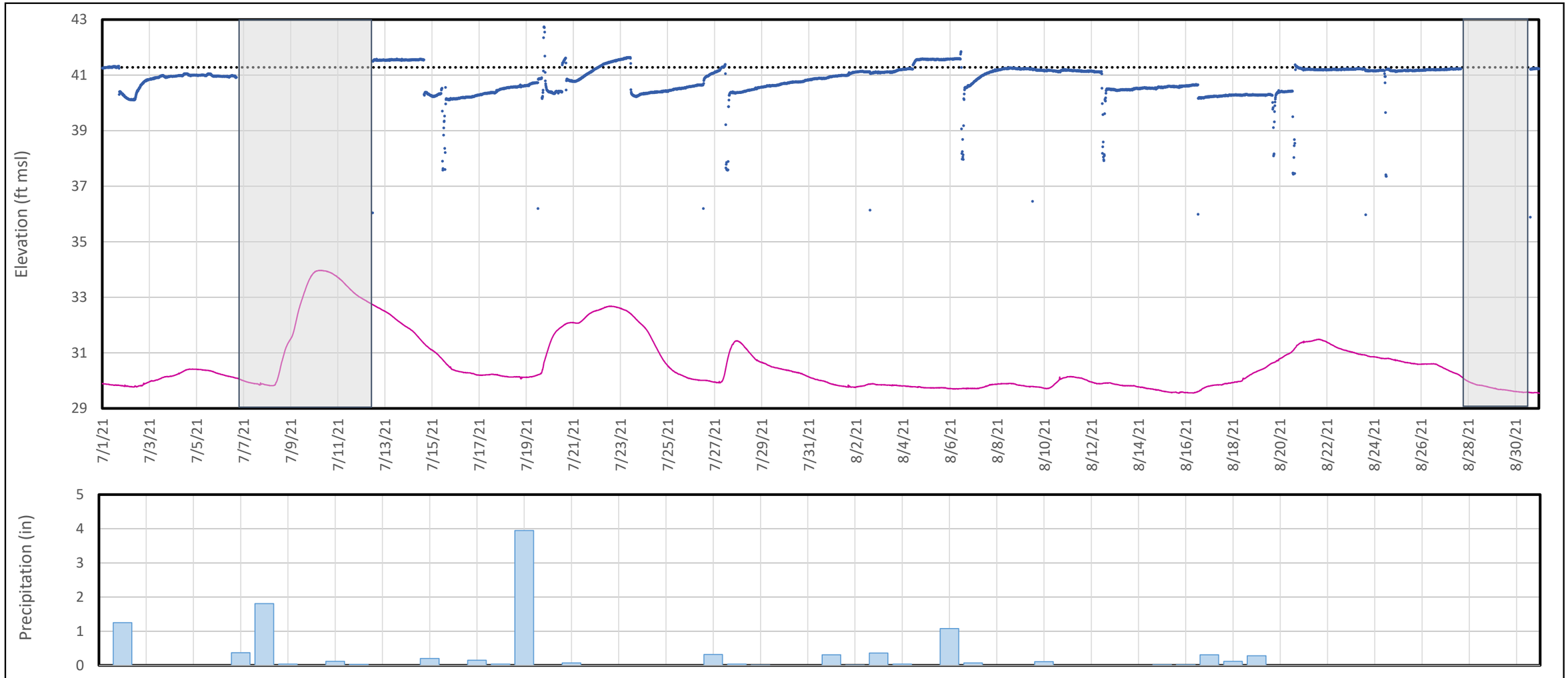
Figure A3-B



Legend

- Inlet Chamber Water Elevation
- River Stage
- Bypass Spillway Elevation
- Transducer Data Gap
- Precipitation (daily totals)

Notes:

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

Transducer data from July 6, 16:46 through July 12, 11:27 and from August 27, 16:34 to August 30, 15:08 were not retrieved. Section 3 describes the gaps in transducer data record.

Inlet Chamber Water Elevation and External Forcings - Seep B

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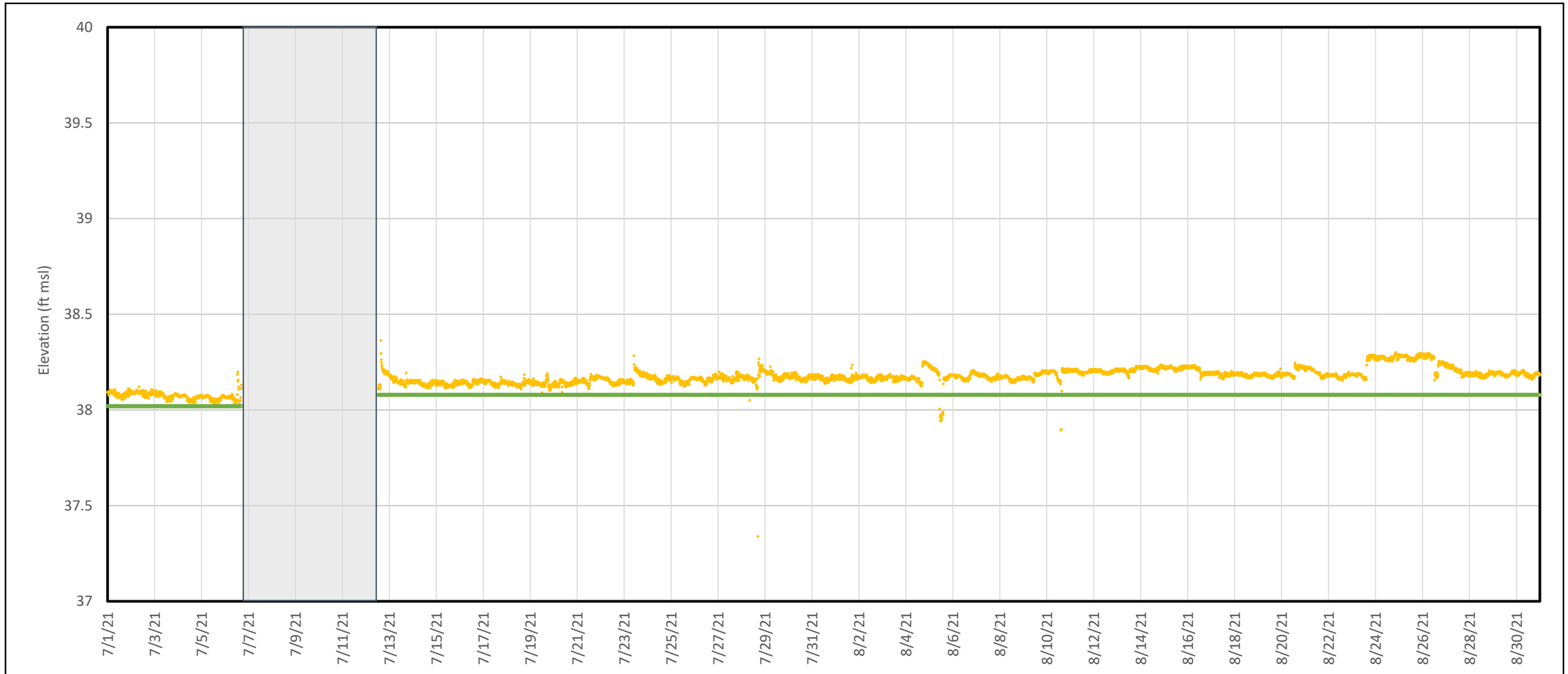
Figure A4-B



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 July 6, 17:00 through July 12, 12:25 was not retrieved. Section 3 describes the gaps in transducer data record.

Discharge Basin Water Elevation - Seep C

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Fayetteville, North Carolina

Geosyntec consultants

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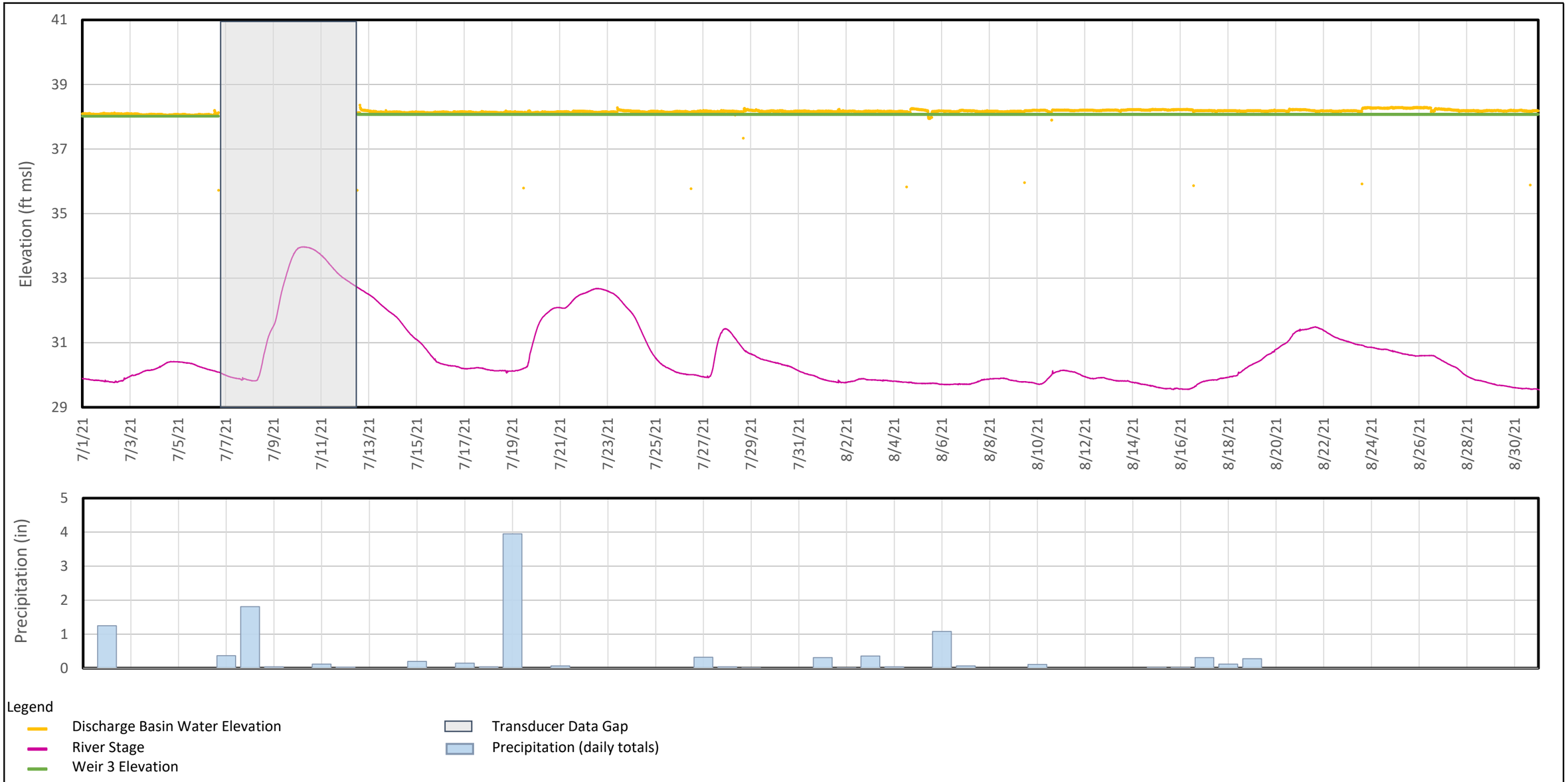
Figure A1-C



Notes:

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

Transducer data from July 6, 17:00 through July 12, 12:25 was not retrieved. Section 3 describes the gaps in transducer data record.

Discharge Basin Water Elevation and External Forcings - Seep C

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Fayetteville, North Carolina

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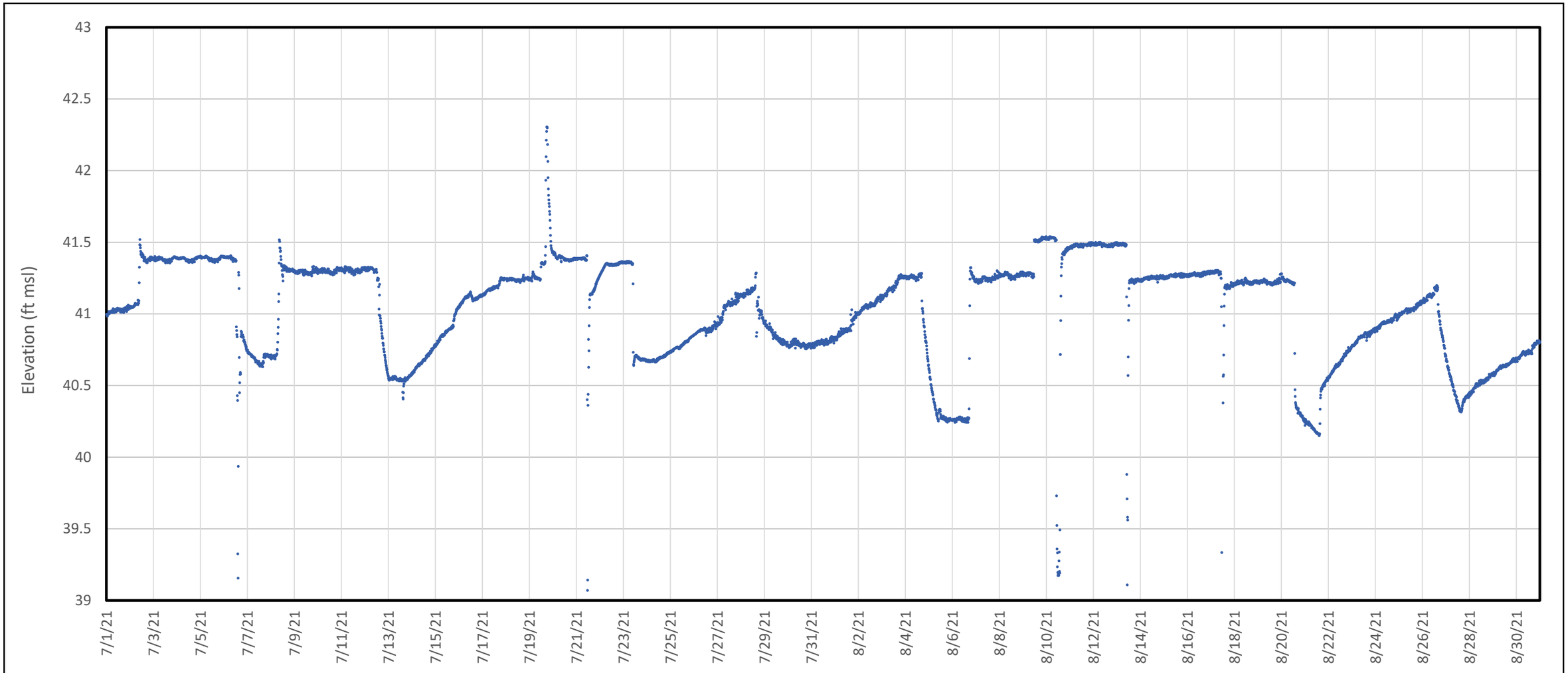
Figure A2-C



Legend

Influent Chamber/Impoundment Elevation

Notes:

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

Inlet Chamber Water Elevation - Seep C

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Fayetteville, North Carolina

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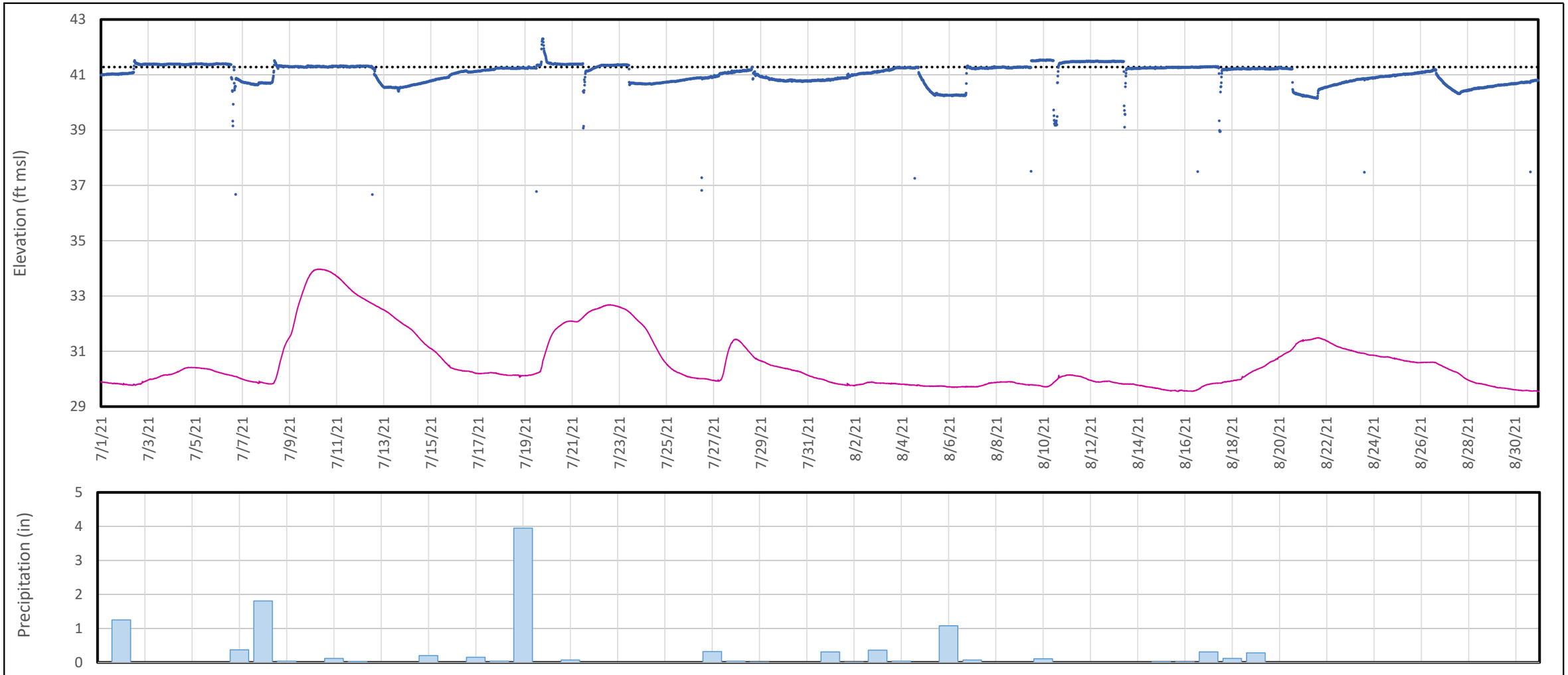
Figure A3-C



Legend

- Inlet Chamber Water Elevation
- River Stage
- Bypass Spillway Elevation
- 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 and river stage elevation data available from the USGS Huske Lock and Dam.

Inlet Chamber Water Elevation and External Forcings - Seep C

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Fayetteville, North Carolina

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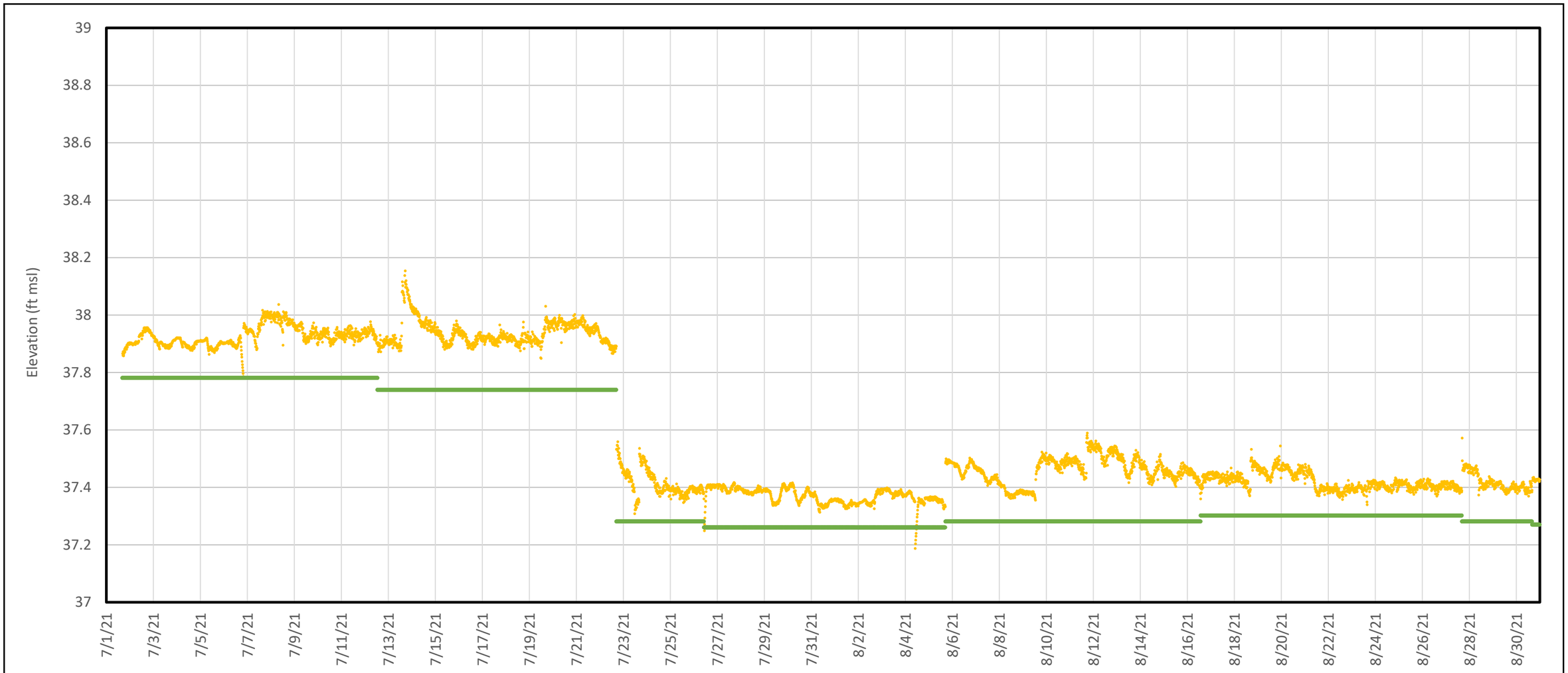
Figure A4-C



Legend

- Discharge Basin Elevation
- Weir 3 Elevation

Notes:

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

Discharge Basin Water Elevation - Seep D

Chemours Fayetteville Works
Fayetteville, North Carolina

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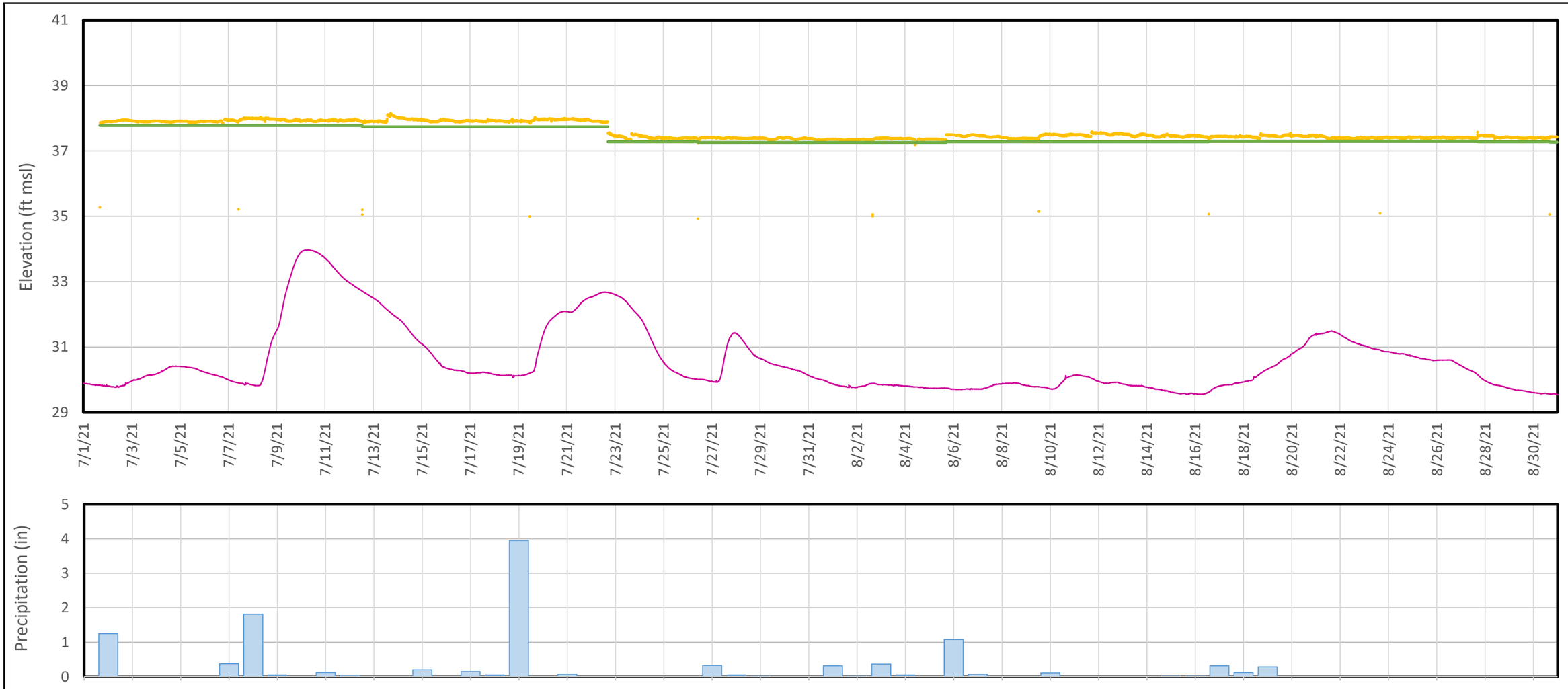
Figure A1-D



Legend

- Discharge Basin Water Elevation
- River Stage
- Weir 3 Elevation
- 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 and river stage elevation data available from the USGS Huske Lock and Dam.

Discharge Basin Water Elevation and External Forcings - Seep D

Chemours Fayetteville Works
Fayetteville, North Carolina

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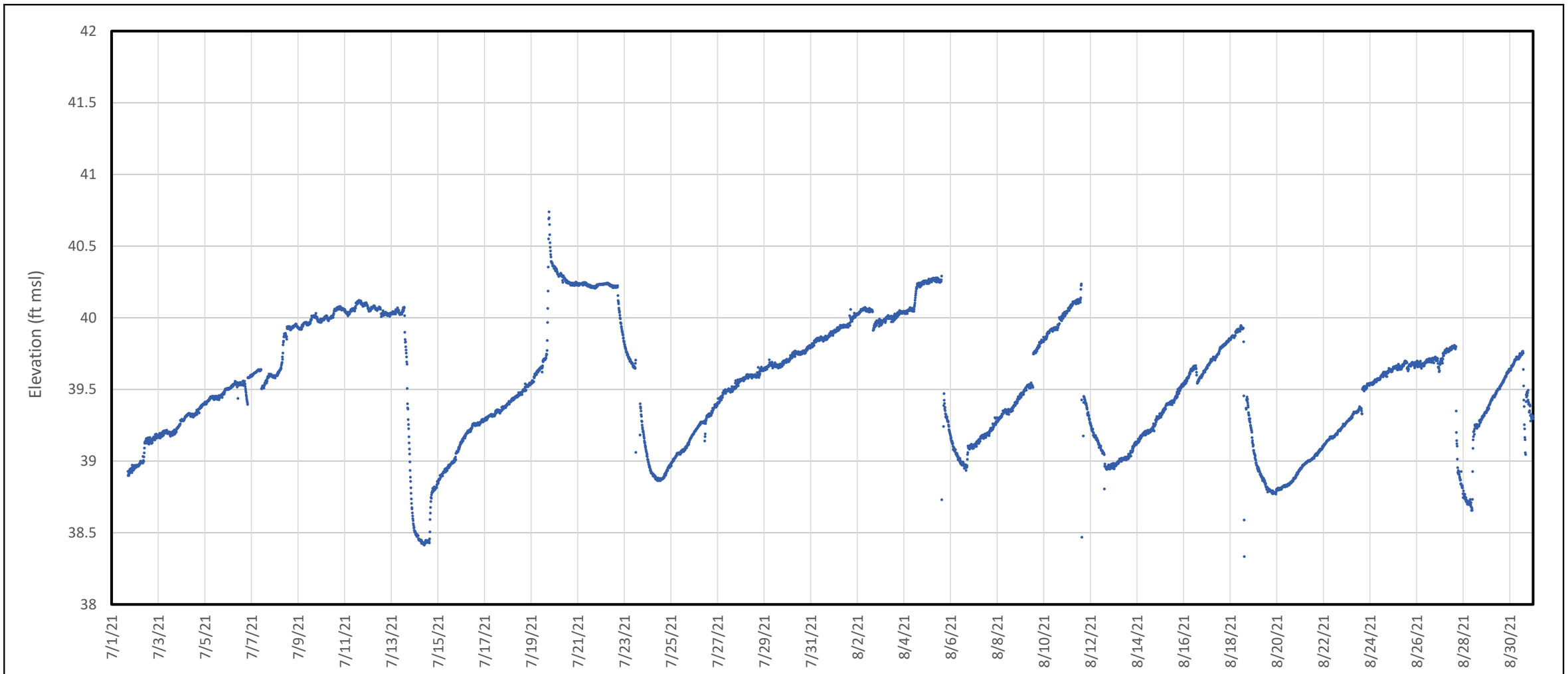
Figure A2-D



Legend

Influent Chamber/Impoundment Elevation

Notes:

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

Inlet Chamber Water Elevation - Seep D

Chemours Fayetteville Works
Fayetteville, North Carolina

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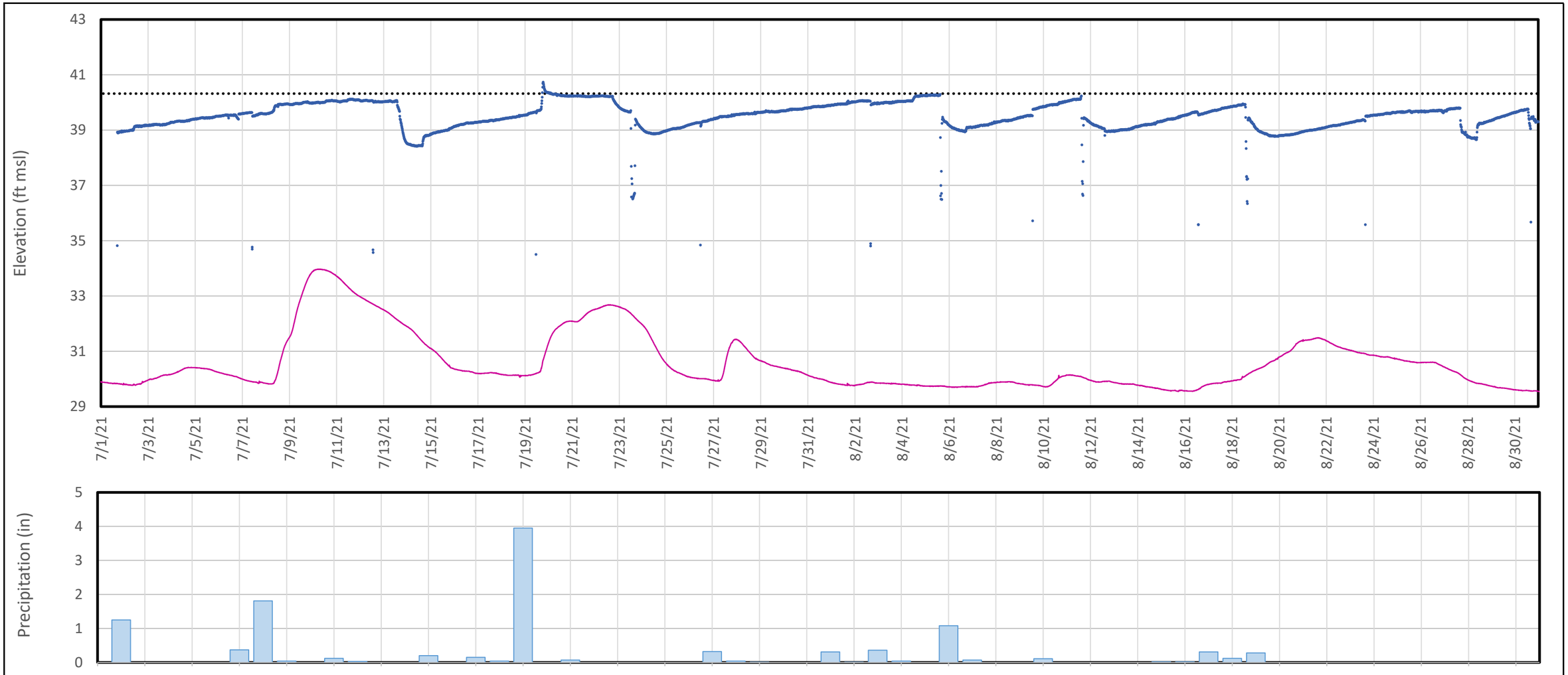
Figure A3-D



Legend

- Inlet Chamber Water Elevation
- River Stage
- Bypass Spillway Elevation
- 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 and river stage elevation data available from the USGS Huske Lock and Dam.

Inlet Chamber Water Elevation and External Forcings - Seep D

Chemours Fayetteville Works
Fayetteville, North Carolina

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Figure A4-D

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

ADQM Data Review

Site: Chemours Fayetteville

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

Project Reviewer: Michael Aucoin

Sample Summary

Field Sample ID	Lab Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose
SEEP-A-INFLUENT-Rain-24-070921	320-76059-1	Other liquid	N	07/09/2021	09:50	FS
SEEP-A-EFFLUENT-Rain-24-070921	320-76059-2	Other liquid	N	07/09/2021	09:50	FS
SEEP-C-INFLUENT-Rain-24-070921	320-76059-3	Other liquid	N	07/09/2021	09:00	FS
SEEP-C-EFFLUENT-Rain-24-070921	320-76059-4	Other liquid	N	07/09/2021	09:00	FS
SEEP-D-INFLUENT-Rain-24-070921	320-76059-5	Other liquid	N	07/09/2021	09:00	FS
SEEP-D-EFFLUENT-Rain-24-070921	320-76059-6	Other liquid	N	07/09/2021	09:00	FS
SEEP-B-INFLUENT-Rain-24-070921	320-76059-7	Other liquid	N	07/09/2021	09:15	FS
SEEP-B-EFFLUENT-Rain-24-070921	320-76059-8	Other liquid	N	07/09/2021	09:15	FS
SEEP-EQBLK-070921	320-76059-9	Blank Water	N	07/09/2021	12:00	EB
SEEP-A-Effluent-336-140721	320-76386-1	Other liquid	N	07/14/2021	21:00	FS
SEEP-B-Effluent-312-140721	320-76386-2	Other liquid	N	07/14/2021	18:00	FS
SEEP-C-Effluent-336-140721	320-76386-3	Other liquid	N	07/14/2021	19:00	FS
SEEP-D-Effluent-336-140721	320-76386-4	Other liquid	N	07/14/2021	20:00	FS
SEEP-A-Influent-300-140721	320-76388-1	Other liquid	N	07/14/2021	21:00	FS
SEEP-B-Influent-312-140721	320-76388-2	Other liquid	N	07/14/2021	18:00	FS

SEEP-C-Influent-336-140721	320-76388-3	Other liquid	N	07/14/2021	19:00	FS
SEEP-D-Influent-24-140721	320-76388-4	Other liquid	N	07/14/2021	20:00	FS
SEEP-A-INFLUENT-24-072321	320-77003-1	Other liquid	N	07/23/2021	19:00	FS
SEEP-A-EFFLUENT-24-072321	320-77003-2	Other liquid	N	07/23/2021	19:00	FS
SEEP-B-Influent-282-310721	320-77239-1	Other liquid	N	07/31/2021	02:00	FS
SEEP-C-Influent-336-310721	320-77239-2	Other liquid	N	07/31/2021	02:00	FS
SEEP-D-Influent-330-310721	320-77239-3	Other liquid	N	07/31/2021	02:00	FS
SEEP-A-Influent-24-300721	320-77239-4	Other liquid	N	07/30/2021	15:00	FS
SEEP-B-Effluent-336-310721	320-77242-1	Other liquid	N	07/31/2021	02:00	FS
SEEP-C-Effluent-336-310721	320-77242-2	Other liquid	N	07/31/2021	02:00	FS
SEEP-D-Effluent-336-310721	320-77242-3	Other liquid	N	07/31/2021	02:00	FS
SEEP-A-Effluent-24-300721	320-77242-4	Other liquid	N	07/30/2021	15:00	FS
SEEP-A-INFLUENT-336-081721	320-77803-1	Other liquid	N	08/17/2021	10:00	FS
SEEP-D-EFFLUENT-336-081721-D	320-77803-10	Other liquid	N	08/17/2021	10:00	DUP
SEEP-A-EFFLUENT-306-081721	320-77803-2	Other liquid	N	08/17/2021	10:00	FS
SEEP-C-INFLUENT-336-081721	320-77803-3	Other liquid	N	08/17/2021	10:00	FS
SEEP-C-EFFLUENT-336-081721	320-77803-4	Other liquid	N	08/17/2021	10:00	FS
SEEP-D-INFLUENT-306-081721	320-77803-5	Other liquid	N	08/17/2021	10:00	FS

SEEP-D-EFFLUENT-336-081721	320-77803-6	Other liquid	N	08/17/2021	10:00	FS
SEEP-B-INFLUNET-336-081721	320-77803-7	Other liquid	N	08/17/2021	10:00	FS
SEEP-B-EFFLUENT-336-081721	320-77803-8	Other liquid	N	08/17/2021	10:00	FS
SEEP-FBLK-081721	320-77803-9	Blank Water	N	08/17/2021	10:00	FB
SEEP-A-INFLUENT-Rain-24-081821	320-77907-1	Other liquid	N	08/18/2021	19:00	FS
SEEP-A-EFFLUENT-Rain-24-081821	320-77907-2	Other liquid	N	08/18/2021	19:00	FS
SEEP-C-INFLUENT-Rain-24-081821	320-77907-3	Other liquid	N	08/18/2021	19:00	FS
SEEP-C-EFFLUENT-Rain-24-081821	320-77907-4	Other liquid	N	08/18/2021	19:00	FS
SEEP-D-INFLUENT-Rain-23-081821	320-77907-5	Other liquid	N	08/18/2021	19:00	FS
SEEP-D-EFFLUENT-Rain-21-081821	320-77907-6	Other liquid	N	08/18/2021	19:00	FS
SEEP-B-INFLUENT-Rain-24-081821	320-77907-7	Other liquid	N	08/18/2021	19:00	FS
SEEP-B-EFFLUENT-Rain-24-081821	320-77907-8	Other liquid	N	08/18/2021	19:00	FS
SEEP-EQBLK-081921	320-77907-9	Blank Water	N	08/19/2021	10:00	EB
SEEP-A-INFLUENT-24-082021	320-78111-1	Surface Water	N	08/20/2021	19:00	FS
SEEP-A-EFFLUENT-24-082021	320-78111-2	Surface Water	N	08/20/2021	19:00	FS
SEEP-C-INFLUENT-24-082021	320-78111-3	Surface Water	N	08/20/2021	19:00	FS

SEEP-C-EFFLUENT-24-082021	320-78111-4	Surface Water	N	08/20/2021	19:00	FS
SEEP-D-INFLUENT-24-082021	320-78111-5	Surface Water	N	08/20/2021	19:00	FS
SEEP-D-EFFLUENT-24-082021	320-78111-6	Surface Water	N	08/20/2021	19:00	FS
SEEP-B-INFLUENT-24-082021	320-78111-7	Surface Water	N	08/20/2021	19:00	FS
SEEP-B-EFFLUENT-24-082021	320-78111-8	Surface Water	N	08/20/2021	19:00	FS
SEEP-A-INFLUENT-24-082821	320-78428-1	Other liquid	N	08/28/2021	19:00	FS
SEEP-A-EFFLUENT-24-082821	320-78428-2	Other liquid	N	08/28/2021	19:00	FS
SEEP-C-INFLUENT-24-082821	320-78428-3	Other liquid	N	08/28/2021	19:00	FS
SEEP-C-EFFLUENT-24-082821	320-78428-4	Other liquid	N	08/28/2021	19:00	FS
SEEP-D-INFLUENT-24-082821	320-78428-5	Other liquid	N	08/28/2021	19:00	FS
SEEP-D-EFFLUENT-24-082821	320-78428-6	Other liquid	N	08/28/2021	19:00	FS
SEEP-B-INFLUENT-24-082821	320-78428-7	Other liquid	N	08/28/2021	19:00	FS
SEEP-B-EFFLUENT-24-082821	320-78428-8	Other liquid	N	08/28/2021	19:00	FS

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

Analytical Protocol

Lab Name	Lab Method	Parameter Category	Sampling Program
Eurofins 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				
ER#	**Description:**					
Other QA/QC Items to Note:						

* 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 Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-EFFLUENT-336-081721	08/17/2021	320-77803-6	PFMOAA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-EFFLUENT-336-081721	08/17/2021	320-77803-6	PFMOAA	0.0020	ug/L	PQL		0.0020	UJ	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-INFLUENT-306-081721	08/17/2021	320-77803-5	R-PSDA	0.73	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-081721	08/17/2021	320-77803-1	R-PSDA	2.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUNET-336-081721	08/17/2021	320-77803-7	R-PSDA	4.8	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-081721	08/17/2021	320-77803-3	R-PSDA	0.88	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-Rain-24-081821	08/18/2021	320-77907-1	R-PSDA	2.2	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-Rain-24-081821	08/18/2021	320-77907-1	Hydrolyzed PSDA	25	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-Rain-24-081821	08/18/2021	320-77907-1	R-EVE	0.93	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-24-081821	08/18/2021	320-77907-7	R-PSDA	5.4	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-24-081821	08/18/2021	320-77907-7	Hydrolyzed PSDA	36	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-24-081821	08/18/2021	320-77907-7	R-EVE	4.0	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-24-081821	08/18/2021	320-77907-3	R-PSDA	1.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-24-081821	08/18/2021	320-77907-3	Hydrolyzed PSDA	1.0	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-24-081821	08/18/2021	320-77907-3	R-EVE	0.95	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-23-081821	08/18/2021	320-77907-5	R-PSDA	0.73	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-23-081821	08/18/2021	320-77907-5	Hydrolyzed PSDA	1.8	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-23-081821	08/18/2021	320-77907-5	R-EVE	0.89	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

Validation Reason 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-306-081721	08/17/2021	320-77803-5	Hydrolyzed PSDA	2.0	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-306-081721	08/17/2021	320-77803-5	R-EVE	0.73	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-24-082021	08/20/2021	320-78111-2	Hydrolyzed PSDA	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-082021	08/20/2021	320-78111-1	R-PSDA	1.7	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-082021	08/20/2021	320-78111-1	Hydrolyzed PSDA	19	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-082021	08/20/2021	320-78111-1	R-EVE	0.97	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-24-082821	08/28/2021	320-78428-2	R-PSDA	0.0075	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-24-082821	08/28/2021	320-78428-2	Hydrolyzed PSDA	0.073	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-24-082821	08/28/2021	320-78428-2	R-EVE	0.0053	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-082821	08/28/2021	320-78428-1	R-PSDA	2.2	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-082821	08/28/2021	320-78428-1	Hydrolyzed PSDA	23	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-082821	08/28/2021	320-78428-1	R-EVE	1.0	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-082021	08/20/2021	320-78111-7	R-PSDA	4.0	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-082021	08/20/2021	320-78111-7	Hydrolyzed PSDA	29	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-082021	08/20/2021	320-78111-7	R-EVE	3.2	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-082821	08/28/2021	320-78428-7	R-PSDA	3.6	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

Validation Reason 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-24-082821	08/28/2021	320-78428-7	Hydrolyzed PSDA	23	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-24-082821	08/28/2021	320-78428-7	R-EVE	2.2	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-24-082021	08/20/2021	320-78111-3	R-PSDA	0.58	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-24-082021	08/20/2021	320-78111-3	Hydrolyzed PSDA	0.70	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-24-082021	08/20/2021	320-78111-3	R-EVE	0.55	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-24-082821	08/28/2021	320-78428-3	R-PSDA	0.79	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-24-082821	08/28/2021	320-78428-3	Hydrolyzed PSDA	0.92	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-24-082821	08/28/2021	320-78428-3	R-EVE	0.64	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-24-082021	08/20/2021	320-78111-5	R-PSDA	0.56	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-24-082021	08/20/2021	320-78111-5	Hydrolyzed PSDA	1.3	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-24-082021	08/20/2021	320-78111-5	R-EVE	0.58	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-24-082821	08/28/2021	320-78428-5	R-PSDA	0.43	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-24-082821	08/28/2021	320-78428-5	Hydrolyzed PSDA	0.98	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-24-082821	08/28/2021	320-78428-5	R-EVE	0.32	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-Rain-24-070921	07/09/2021	320-76059-1	R-PSDA	1.2	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-Rain-24-070921	07/09/2021	320-76059-1	Hydrolyzed PSDA	11	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-Rain-24-070921	07/09/2021	320-76059-1	R-EVE	0.60	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

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-Rain-24-070921	07/09/2021	320-76059-7	R-PSDA	2.5	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-24-070921	07/09/2021	320-76059-7	Hydrolyzed PSDA	17	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-Rain-24-070921	07/09/2021	320-76059-7	R-EVE	2.2	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-24-070921	07/09/2021	320-76059-3	R-PSDA	0.24	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-24-070921	07/09/2021	320-76059-3	Hydrolyzed PSDA	0.29	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-Rain-24-070921	07/09/2021	320-76059-3	R-EVE	0.20	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-24-070921	07/09/2021	320-76059-5	R-PSDA	0.46	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-24-070921	07/09/2021	320-76059-5	Hydrolyzed PSDA	1.2	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-Rain-24-070921	07/09/2021	320-76059-5	R-EVE	0.52	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Effluent-312-140721	07/14/2021	320-76386-2	Hydrolyzed PSDA	0.0024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-300-140721	07/14/2021	320-76388-1	R-PSDA	2.9	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-300-140721	07/14/2021	320-76388-1	Hydrolyzed PSDA	32	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-300-140721	07/14/2021	320-76388-1	R-EVE	1.4	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-312-140721	07/14/2021	320-76388-2	R-PSDA	4.8	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-312-140721	07/14/2021	320-76388-2	Hydrolyzed PSDA	33	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-312-140721	07/14/2021	320-76388-2	R-EVE	3.8	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

Validation Reason 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-C-Influent-336-140721	07/14/2021	320-76388-3	R-PSDA	0.62	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Influent-336-140721	07/14/2021	320-76388-3	Hydrolyzed PSDA	0.81	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Influent-336-140721	07/14/2021	320-76388-3	R-EVE	0.67	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-24-140721	07/14/2021	320-76388-4	R-PSDA	0.86	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-24-140721	07/14/2021	320-76388-4	Hydrolyzed PSDA	2.0	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-24-140721	07/14/2021	320-76388-4	R-EVE	0.87	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-072321	07/23/2021	320-77003-1	R-PSDA	1.8	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-072321	07/23/2021	320-77003-1	Hydrolyzed PSDA	16	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-24-072321	07/23/2021	320-77003-1	R-EVE	0.96	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-24-300721	07/30/2021	320-77239-4	R-PSDA	3.4	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-24-300721	07/30/2021	320-77239-4	Hydrolyzed PSDA	38	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-Influent-24-300721	07/30/2021	320-77239-4	R-EVE	1.5	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-282-310721	07/31/2021	320-77239-1	R-PSDA	4.0	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-282-310721	07/31/2021	320-77239-1	Hydrolyzed PSDA	30	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-Influent-282-310721	07/31/2021	320-77239-1	R-EVE	2.8	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Influent-336-310721	07/31/2021	320-77239-2	R-PSDA	0.65	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Influent-336-310721	07/31/2021	320-77239-2	Hydrolyzed PSDA	0.77	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2021 **Validation Options:** LABSTATS

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-C-Influent-336-310721	07/31/2021	320-77239-2	R-EVE	0.57	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-330-310721	07/31/2021	320-77239-3	R-PSDA	0.79	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-330-310721	07/31/2021	320-77239-3	Hydrolyzed PSDA	2.3	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-Influent-330-310721	07/31/2021	320-77239-3	R-EVE	0.80	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Effluent-336-310721	07/31/2021	320-77242-2	R-PSDA	0.0022	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-Effluent-336-310721	07/31/2021	320-77242-2	Hydrolyzed PSDA	0.0024	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-306-081721	08/17/2021	320-77803-2	Hydrolyzed PSDA	0.0058	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-081721	08/17/2021	320-77803-1	Hydrolyzed PSDA	23	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-081721	08/17/2021	320-77803-1	R-EVE	0.81	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUNET-336-081721	08/17/2021	320-77803-7	Hydrolyzed PSDA	32	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUNET-336-081721	08/17/2021	320-77803-7	R-EVE	2.8	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-081721	08/17/2021	320-77803-3	Hydrolyzed PSDA	1.2	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-081721	08/17/2021	320-77803-3	R-EVE	0.80	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep