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INTERIM SEEP REMEDIATION OPERATION AND MAINTENANCE REPORT #14

Chemours Fayetteville Works

Prepared for

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EXECUTIVE SUMMARY

This Operations and Maintenance Report #14 (O&M Report #14) has been prepared to document the operations, maintenance, and performance of the flow-through cells (FTCs) at Seeps A, B, C, and D from March 1 through April 30, 2023. The median flow rate processed by the Seep A, B, C, and D FTCs was 67, 44, 50, and 45 gallons per minute (gpm), respectively. While this reporting period was relatively wet (7.20 inches rain compared to the historical average of 5.92 inches), these median flow rates are less than observed previously (approximately a 55% reduction compared to March-April 2022). These reductions in flow are attributed to the installation and operation of the long-term seeps and groundwater remedy, notably the operational commencement of 68 groundwater pumping wells on March 14, 2023, and the ongoing installation of the ex-situ seeps capture ponds and barrier wall, particularly in the Seep A and B area.

As documented in the previous O&M Reports #1 through #13, 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 17,300,000 gallons of seep flow. Composite samples from performance monitoring indicated that the average per- and polyfluoroalkyl substances (PFAS) removal efficiency of the captured base flow was approximately 99.9%, and the FTCs are estimated to have prevented approximately 19.6 pounds (lbs) of PFAS from being discharged to the Cape Fear River in the reporting period, and 595 lbs of PFAS over the lifetime of the systems to date.

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%	percent
°C	degree Celsius
µS/cm	micro Siemens per centimeter
COA	Addendum to Consent Order Paragraph 12
DO	Dissolved oxygen
EPA	Environmental Protection Agency
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
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
PFMOAA	perfluoro-2-methoxyacetic acid
PMPA	perfluoromethoxypropyl carboxylic acid
SU	standard units
TB	Transfer Basin
TSS	total suspended solids
USGS	United States Geological Survey

1. INTRODUCTION

Geosyntec Consultants of NC, P.C. (Geosyntec) has prepared this Interim Seep Remediation Operation and Maintenance (O&M) Report #14 ("O&M Report #14") 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 #14 has been prepared for the operational period of March 1 through April 30, 2023.

This O&M Report #14 will be the last bimonthly report for these interim remedies. The long-term seeps and groundwater remedy is nearing completion, and quarterly reporting is required per the Addendum to the Consent Order Addendum (COA) Paragraph 2.c.v. To comprehensively evaluate the interim and long-term remedies together, which serve in complementary functions to reduce per- and polyfluoroalkyl substances (PFAS) loading to the Cape Fear River, the FTCs will begin to be incorporated in these quarterly reports moving forward.

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 #14, 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 (March 1 through April 30, 2023).

2.1 Inspections

Per the CO Addendum, routine inspections occurred on a weekly basis (at a minimum), and also occurred after 0.5 inches or greater rain events within a 24-hour period. An Inspection Form was filled out by operation and maintenance (O&M) 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 granular activated carbon [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 typically operate in series. Tables 1a-d detail the filter bed configurations for Seeps A, B, C, and D over the reporting period of March 1 through April 30, 2023. 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	33	28	61
B	24	37	61
C	41	20	61
D	61	0	61

2.3 FTC Management During River Flooding

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

During the reporting period, the Cape Fear River rose above the action level from April 9 through 13, 2023. The ISCO autosamplers at Seeps A-D were stopped on April 9 and removed from the FTCs due to the impending Cape Fear River flooding. The ISCO autosamplers were replaced on April 14 after the Cape Fear River receded. More details regarding the Cape Fear River are described in Section 4.5.

2.4 Material Changeouts

The table below summarizes the material changeouts through this reporting period:

Seep	Filter Bed	GAC Changeouts		
		Date	GAC Age/Lead Days	GAC Removed (lbs)
C	FB2	3/16/2023	92/50	9,000
A	FB2	3/29/2023	77/58	27,000
B	FB2	4/6/2023	59/56	27,000
B	FB2	4/20/2023*	14/14	27,000
C	FB1	4/27/2023*	91/41	9,000
			Total	*99,000*

**On these dates, the GAC changeout included replacement of the fabric beneath the GAC layers.*

2.5 Issue Resolution and System Optimization

The FTC operations team continued to employ optimization tools previously developed and reported on, notably consisting of filter skids and backflushing techniques. As noted in this Report, some FTCs were periodically operating at reduced or no-flow conditions, which is attributed to the long-term remedy. During these dry conditions, to promote processing of flow and prevent bacterial growth, O&M personnel pumped water from the impoundment into the lead filter bed, which was successful in alleviating bacterial interference and maintaining flow rates through the FTCs.

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 Inlet 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, four sets of performance monitoring samples each were collected from Seeps A, B, C, and D. 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, Transfer Basin (TB), and ESB at Seeps A-D for evaluation of system performance and the need for GAC changeouts. Seven sets of breakthrough monitoring samples each were collected from Seeps A to D during this reporting period (28 total).

3.3.3 Water Quality Monitoring

Water quality in the IC and ESB at Seeps A-D was generally monitored at the same frequency as performance monitoring described above. Dissolved oxygen (DO), pH, turbidity, specific conductivity, and temperature were measured using a calibrated In-Situ Aqua TROLL 500 Multiparameter Sonde. Total suspended solids (TSS) was measured by EPA laboratory method SM 2540D from grab samples collected concurrent with performance samples.

3.3.4 Rain Event Monitoring

Wet weather samples were collected at a frequency of once per calendar month following a rain event of at least 0.5 inches within a 24-hour period. Composite samples for wet weather monitoring are collected using Teledyne ISCO 6712 Full-Size Portable Samplers (the same make and model as performance monitoring discussed above, but a dedicated set for wet weather sampling only). The wet weather autosamplers are equipped with Teledyne 674 rain gauges that measure rainfall depth. When rainfall exceeds 0.5 inches in a 24-hour period, the rain gauge sends a signal to the Teledyne 6712 to begin a sampling cycle, where the autosampler collects aliquots every hour for 24 hours. Operation, maintenance, and monitoring personnel fill sample containers and follow the same sample collection protocols for wet weather as described in Section 3.3.1 above.

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

3.4 Deviations

Deviations in data collected are described below.

3.4.1 Performance Monitoring 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.

- Before the completion of the composite sampling on April 28, 2023, the autosampler for the Seep A influent malfunctioned, resulting in the collection of fewer aliquots (318) than planned (336).
- Before the completion of the composite sampling on April 28, 2023, the autosampler for the Seep C effluent malfunctioned, resulting in the collection of fewer aliquots (318) than planned (336).

4. RESULTS

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

Reporting Period Metric	Seep A	Seep B	Seep C	Seep D	Total
Duration	61 days *(March 1 – April 30, 2023)*				
Rainfall, Actual (inches)	7.2 *(March 1 – April 30, 2023)*				
Rainfall, Historical Average (inches)	5.92 *(March 1 – April 30, 2004-2020)*				
River Above Spillway (days) *	3.6	3.1	3.2	3.6	N/A
Operational Period (days)	61				N/A
Median Flow Rate (gpm)	67	40	49	42	198
Seep Volume Treated (gallons)	5,900,000	3,800,000	4,000,000	3,600,000	17,300,000
PFAS Removed (lbs)	5.8	8.2	2.9	2.7	19.6

** Seeps A and D are approximately 1 foot lower in elevation than Seeps B and C.*

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	67	40	49	42
95th percentile Flow Rate (gpm) during the Reporting Period	140	111	108	100
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 5,900,000 gallons, 3,800,000 gallons, 4,000,000 gallons, and 3,600,000 gallons of water (17,300,000 gallons total) were treated by the Seeps A, B, C, and D FTCs, respectively, from March 1 through April 30, 2023. This total volume is a significant reduction compared to the March-April reporting period from 2022, in which 38,000,000 gallons were treated (a reduction of 55%). This reduction is not a result of recent weather conditions, as this reporting period received above-average rainfall, and bypass was very limited.

Moreover, at Seeps B, C, and D, there were several days in late March and April when the FTCs processed negligible or no flow. In figures 2b-d, the low/no flow durations can be seen to last from a few days to as long as a week. These instances of low/no flow in the FTC were confirmed during inspections by the O&M personnel.

The reductions in influent flow are attributed to the commissioning of the groundwater extraction system, the construction of the ex-situ seep capture ponds, and the installation of the barrier wall, which was substantially complete in the Seep A and B areas during this reporting period.

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.

The total rainfall received in March was approximately 2.54 inches, which is similar to the monthly historical average of 2.79 inches. In April, the total rainfall was 4.66 inches, which is approximately 50% greater than the monthly historical average of 3.13 inches. Overall, for the two-month period, the total rainfall received (7.2 inches) was approximately 22% more than the historical average (5.92 inches). The few instances of bypass at Seeps A to D caused by heavy rains were resolved with maintenance events lowering the impoundment below the spillway, similar to previous reporting periods.

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.

Analytical Results – Performance Monitoring	Seep A	Seep B	Seep C	Seep D
Average Influent Total Table 3+ PFAS, 17 compounds (ng/L)	120,000	200,000	84,000	85,250
Average Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	269	1,340	247	127
Average Removal Efficiency (%)	>99.9	99.9	99.8	99.8

4.3 System Effectiveness

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

Based on the system flowrate data (Section 4.1.1) and the performance monitoring composite sample data of the three indicator compounds (Section 4.2), the overall system effectiveness for Seeps A-D was calculated to be 99.5%. The system effectiveness for the individual Seeps is presented below:

System Effectiveness	Seep A		Seep B		Seep C		Seep D		Overall Average
	Mar	Apr	Mar	Apr	Mar	Apr	Mar	Apr	
%	>99.9	99.4	99.9	98.5	99.8	98.8	99.8	99.9	99.5

4.4 Wet Weather Sampling Results

Wet weather monitoring samples were collected at Seeps A, B, C, and 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
Influent Total Table 3+ PFAS, 17 compounds (ng/L)	129,500	165,000	78,500	92,500
Effluent Total Table 3+ PFAS, 17 compounds (ng/L)	118	167	285	122
Removal Efficiency (%)	99.9	99.9	99.4	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 (approximately), 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 remove any depositional sediment from flooding.

Beginning on April 9, the river rose above the discharge weir and bypass spillway at all four FTCs and receded below these features by April 14. On April 16, due to additional rain, the river rose again, this time only above the discharge weir elevations of Seeps A and D, as these two systems are installed in lower-lying areas than B and C. The changes in elevation of the Cape Fear River during the reporting period (March 1 through April 30, 2023) are shown in Figure 1. For clarity of presentation, Figure 1 shows the key FTC elevations at Seep C only.

Table 5 presents the percent of time the elevation of the Cape Fear River has exceeded these key elevations over the lifetime of operation at each seep FTC. As shown, the river has been above the Seep A/B/D features less frequently than the historical dataset, as compared to Seep C, which was installed during the extraordinarily wet winter of 2020/2021.

4.6 Water Quality

The water quality measurements collected during the 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 at all four seeps. On a median basis, the DO changed by 0.7 mg/L or less. Aerobic (>2 mg/L) conditions were consistently observed during the reporting period. The FTC systems do not involve biological activity to treat influent water, therefore, DO is not expected to decrease or increase significantly over the system's residence time.
- **Temperature:** At all four seeps, the median temperature of the effluent was within 0.7°C of the median temperature of the influent during this reporting period. Due to the relatively short residence time in the FTC, temperature is not expected to change significantly throughout the FTC.
- **Specific Conductance:** For all four Seeps, the difference in median specific conductance across influent and effluent locations ranged between −343.9 and 10.6 µS/cm. The difference between influent and effluent samples was considerably higher at Seeps A, B and D for the April 9 sampling, ranging from −1,209 to -54 µS/cm. The influent specific conductivity at these three seeps on April 9 was elevated as compared to the remaining report period, likely due to the coinciding rain event at the time the measurements were collected. During normal hydraulic conditions, the FTC is expected to have little effect on the anion/cation content of the seep baseflow.
- **pH:** The median influent pH at the four seeps ranged from 6.9 to 8.1, and the median effluent pH ranged from 6.2 to 7.8 standard units (SU) in this reporting period. From the IC to the ESB, the median pH of treated water at Seeps A, B, C, and D changed by −0.3, −0.1, 0.4, and −0.7 SU, respectively.
- **Turbidity:** The median turbidity of the influent water at Seeps A-D ranged from 17.9 to 268.3 NTU. The FTCs significantly decreased the turbidity of the influent water. The median turbidity of the effluent water at Seeps A-D ranged from 0.9 to 61.7 NTU.
- **TSS:** The median influent TSS at Seeps A-D ranged from 4.0 to 96 mg/L. Median effluent TSS at Seeps A-D was either not detected or was detected in minimal concentrations (6 mg/L or lower). As was the case with turbidity, the FTCs decreased the TSS in the influent water.

5. SUMMARY

The following summarizes the FTC performance after the completion of the latest reporting period (March 1 through April 30, 2023):

- While this reporting period was relatively wet (7.20 inches rain compared to the historical average of 5.92 inches), the median flow rates processed by the FTCs are less than observed previously. These reductions in flow (55% less than the March-April 2022 reporting period from one year ago) are attributed to the installation and operation of the long-term groundwater remedy, notably the full operational commencement of 68 groundwater pumping wells on March 14, 2023, and the ongoing installation of the ex-situ seep capture ponds and barrier wall, particularly in the Seep A and B area.
- Conclusions regarding the effectiveness of the FTCs that have been documented in previous O&M Reports remain unchanged. Flow data from Seeps A, B, C, and D indicate the systems are capable of treating more than the design basis flow rate under favorable hydraulic conditions. Wet weather flow is frequently captured, in some cases fully captured, and treated equally to dry weather flows when captured.
- Performance monitoring results indicate the average PFAS removal efficiency of captured baseflow at Seeps A-D is approximately 99.9%. To date, the A-D FTCs have prevented approximately 595 lbs of PFAS from being discharged to the Cape Fear River.

This O&M Report #14 is the last bimonthly Interim Seep Remediation Operation and Maintenance Report. Future reporting will be incorporated on a quarterly basis in the Groundwater and Seeps Remediation Reports that will comprehensively evaluate the interim and long-term remedies together. The quarterly period of April 1 through June 30, 2023 will be covered in Groundwater and Seeps Remediation Report #2 and will be submitted no later than September 30, 2023.

6. REFERENCES

AECOM, 2018. Poly and Perfluoroalkyl Substance Quality Assurance Project Plan. August 2018.

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

Geosyntec, 2021a. Interim Seep Remediation Operation and Maintenance Report #1. Chemours Fayetteville Works. 31 March 2021.

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

Geosyntec, 2021c. Interim Seep Remediation Operation and Maintenance Report #3. Chemours Fayetteville Works. 30 July 2021.

Geosyntec, 2021d. Interim Seep Remediation Operation and Maintenance Report #4. Chemours Fayetteville Works. 30 September 2021.

Geosyntec, 2021e. Interim Seep Remediation Operation and Maintenance Report #5. Chemours Fayetteville Works. 30 November 2021.

Geosyntec, 2022a. Interim Seep Remediation Operation and Maintenance Report #6. Chemours Fayetteville Works. 31 January 2022.

Geosyntec, 2022b. Interim Seep Remediation Operation and Maintenance Report #7. Chemours Fayetteville Works. 31 March 2022.

Geosyntec, 2022c. Interim Seep Remediation Operation and Maintenance Report #8. Chemours Fayetteville Works. 31 May 2022.

Geosyntec, 2022d. Interim Seep Remediation Operation and Maintenance Report #9. Chemours Fayetteville Works. 29 July 2022.

Geosyntec, 2022e. Interim Seep Remediation Operation and Maintenance Report #10. Chemours Fayetteville Works. 30 September 2022.

Geosyntec, 2022f. Interim Seep Remediation Operation and Maintenance Report #11. Chemours Fayetteville Works. 30 November 2022.

Geosyntec, 2023a. Interim Seep Remediation Operation and Maintenance Report #12. Chemours Fayetteville Works. 31 January 2023.

Geosyntec, 2023b. Interim Seep Remediation Operation and Maintenance Report #13. Chemours Fayetteville Works. 31 March 2023.

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TABLES

Table 1a
Summary of Operations and Maintenance Activities - Seep A
Reporting Period 14 (Mar - Apr 2023)
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			
03/01/2023	673	No				Series		Series			Ran filter skids for impoundment water.	17 inches of freeboard.
03/02/2023	674	No				Series		Series			Ran filter skids for impoundment water.	N/A
03/03/2023	675	No				Series		Series			Skimmed and fluffed FB2.	N/A
03/06/2023	678	No	X			Series		Series		X	N/A	18 inches of freeboard.
03/07/2023	679	No				Series		Series			Skimmed and fluffed FB2.	16.5 inches of freeboard.
03/08/2023	680	No				Series		Series			Ran filter skids for impoundment water.	18 inches of freeboard.
03/09/2023	681	No				Series		Series			Ran filter skids for impoundment water.	19 inches of freeboard.
03/10/2023	682	No				Series		Series			N/A	18 inches of freeboard.
03/11/2023	683	No				Series		Series			N/A	16 inches of freeboard
03/13/2023	685	No	X		X	Series		Series		X	Skimmed and fluffed FB2.	9 inches of freeboard.
03/14/2023	686	No		X		Series		Series			N/A	14.5 inches of freeboard.
03/15/2023	687	No				Series		Series			N/A	17 inches of freeboard.
03/16/2023	688	No				Series		Series			N/A	15 inches of freeboard.
03/17/2023	689	No				Series		Series			Cleaned FB1. Skimmed and fluffed FB2.	14 inches of freeboard.
03/20/2023	692	No	X			Series		Series		X	N/A	19 inches of freeboard.
03/21/2023	693	No				Series		Series			Ran filter skids for impoundment water.	19 inches of freeboard.
03/22/2023	694	No				Series		Series			Skimmed and fluffed FB2.	18 inches of freeboard.
03/23/2023	695	No				Series		Series			N/A	20 inches of freeboard.
03/24/2023	696	No				Series		Series			N/A	20 inches of freeboard.
03/27/2023	699	No	X			Series		Parallel		X	Skimmed and fluffed FB1.	9 inches of freeboard.
03/28/2023	700	No				Parallel		Parallel			N/A	23.5 inches of freeboard.
03/29/2023	701	No		X		Lead	Changeout	Lead	Lag		GAC changeout and bottom fabric replaced in FB2.	N/A
03/30/2023	702	No				Series		Series			N/A	8 inches of freeboard.
03/31/2023	703	No				Series		Series			Skimmed and fluffed FB1.	5 inches of freeboard.
04/03/2023	706	No	X			Series		Series		X	Skimmed and fluffed FB1.	10 inches of freeboard.
04/04/2023	707	No				Series		Series			N/A	10 inches of freeboard.
04/05/2023	708	No				Series		Series			Skimmed, fluffed, and backflushed FB1.	8.5 inches of freeboard.
04/06/2023	709	No				Series		Series			Drain lines jetted.	14 inches of freeboard.
04/07/2023	710	No				Series		Series			Skimmed, fluffed, and backflushed FB1.	10 inches of freeboard.
04/09/2023	712	Yes		X	X	Series		Series			N/A	N/A
04/11/2023	714	No				Series		Series			N/A	N/A
04/14/2023	717	No				Series		Series			Back flushed FB1.	9 inches of freeboard.
04/17/2023	720	No	X			Series		Parallel		X	N/A	17 inches of freeboard.
04/18/2023	721	No				Parallel		Series			Skimmed and fluffed FB1 and FB2.	16 inches of freeboard.
04/19/2023	722	No				Series		Series			N/A	15 inches of freeboard.
04/21/2023	724	No				Series		Series			Skimmed and fluffed FB1.	15 inches of freeboard.
04/23/2023	726	No				Series		Series			N/A	12 inches of freeboard.
04/24/2023	727	No	X			Series		Series		X	N/A	12 inches of freeboard.
04/25/2023	728	No				Series		Series			Skimmed and fluffed FB1	11 inches of freeboard.
04/26/2023	729	No				Series		Series			Backflushed FB1.	18 inches of freeboard.
04/27/2023	730	No				Series		Series			Skimmed and fluffed FB1.	12 inches of freeboard.
04/28/2023	731	No		X		Series		Series			N/A	N/A

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

Table 1b
Summary of Operations and Maintenance Activities - Seep B
Reporting Period 14 (Mar - Apr 2023)
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			
03/01/2023	632	No				Series		Series			Ran filter skids for impoundment water.	20 inches of freeboard.
03/02/2023	633	No				Series		Series			Skimmed and fluffed FB2.	20 inches of freeboard.
03/03/2023	634	No				Series		Series			Ran filter skids for impoundment water.	22.5 inches of freeboard
03/06/2023	637	No	X			Series		Series		X	N/A	21 inches of freeboard.
03/07/2023	638	No				Series		Series			N/A	21 inches of freeboard.
03/08/2023	639	No				Series		Series			Skimmed and fluffed FB2. Ran bag filter.	21 inches of freeboard.
03/09/2023	640	No				Series		Series			Ran filter skids for impoundment water.	23 inches of freeboard.
03/10/2023	641	No				Series		Series			N/A	22.5 inches of freeboard.
03/11/2023	642	No				Series		Series			N/A	23 inches of freeboard.
03/13/2023	644	No	X		X	Series		Series		X	N/A	18 inches of freeboard.
03/14/2023	645	No		X		Series		Series			Skimmed and fluffed FB2.	18 inches of freeboard.
03/15/2023	646	No				Series		Series			N/A	21 inches of freeboard.
03/16/2023	647	No				Series		Series			N/A	21 inches of freeboard.
03/17/2023	648	No				Series		Series			N/A	22 inches of freeboard.
03/20/2023	651	No	X			Series		Series		X	N/A	No flow entering cell. 23.5 inches of freeboard.
03/21/2023	652	No				Series		Series			Ran filter skids for impoundment water.	23.5 inches of freeboard.
03/22/2023	653	No				Series		Series			Pumped impoundment water into cell to increase production.	Over 23.5 inches of freeboard.
03/23/2023	654	No				Series		Series			Skimmed and fluffed FB2.	Over 23.5 inches of freeboard.
03/24/2023	655	No				Series		Series			N/A	Over 23.5 inches of freeboard.
03/27/2023	658	No	X			Series		Series		X	N/A	18 inches of freeboard.
03/28/2023	659	No				Series		Closed	Lead		Skimmed and fluffed FB2	14 inches of freeboard.
03/29/2023	660	No		X		Closed	Lead	Closed	Lead		Back flushed FB2.	11 inches of freeboard.
03/30/2023	661	No				Closed	Lead	Closed	Lead		Skimmed, fluffed, and backflushed FB2.	8 inches of freeboard.
04/03/2023	665	No	X			Closed	Lead	Closed	Lead	X	N/A	14.5 inches of freeboard.
04/04/2023	666	No				Closed	Lead	Closed	Lead		N/A	13 inches of freeboard.
04/05/2023	667	No				Closed	Lead	Lead	Closed		Skimmed and fluffed FB1.	14 inches of freeboard.
04/06/2023	668	No				Lead	Changeout	Lead	Lag		GAC changeout in FB2.	23 inches of freeboard.
04/07/2023	669	No				Series		Series			N/A	21.5 inches of freeboard.
04/09/2023	671	Yes		X	X	Series		Series			N/A	N/A
04/14/2023	676	No				Series		Parallel			N/A	12 inches of freeboard.
04/17/2023	679	No	X			Parallel		Series		X	Skimmed and fluffed FB1 and FB2.	23 inches of freeboard.
04/18/2023	680	No				Series		Series			Backflushed FB2.	21 inches of freeboard.
04/19/2023	681	No				Series		Lead	Closed		Preparation for GAC changeout.	22 inches of freeboard.
04/20/2023	682	No				Lead	Closed	Lead	Changeout		GAC changeout and fabric replaced in FB2.	23.5 inches of freeboard.
04/21/2023	683	No				Series		Series			N/A	23.5 inches of freeboard.
04/23/2023	685	No				Series		Series			N/A	22 inches of freeboard.
04/24/2023	686	No	X			Series		Series		X	N/A	24 inches of freeboard. No flow into or out of cell.
04/25/2023	687	No				Series		Series			N/A	24 inches of freeboard. No flow into or out of cell.
04/26/2023	688	No				Series		Series			N/A	24 inches of freeboard. No flow into or out of cell.
04/28/2023	690	-		X		Series		Series			N/A	N/A

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

Table 1c
Summary of Operations and Maintenance Activities - Seep C
Reporting Period 14 (Mar - Apr 2023)
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			
03/01/2023	806	No				Series		Series			Ran filter skids for impoundment water.	13 inches of freeboard.
03/02/2023	807	No				Series		Series			Ran filter skids for impoundment water.	14 inches of freeboard.
03/03/2023	808	No				Series		Series			N/A	14 inches of freeboard
03/06/2023	811	No	X			Series		Series		X	N/A	15 inches of freeboard.
03/07/2023	812	No				Series		Series			Skimmed and fluffed FB2.	14 inches of freeboard.
03/08/2023	813	No				Series		Series			N/A	15 inches of freeboard.
03/09/2023	814	No				Series		Series			N/A	14 inches of freeboard.
03/10/2023	815	No				Series		Series			N/A	13.5 inches of freeboard.
03/11/2023	816	No				Series		Series			N/A	14 inches of freeboard.
03/13/2023	818	No	X		X	Series		Series		X	Skimmed and fluffed FB2.	2 inches of freeboard.
03/14/2023	819	No		X		Series		Series			N/A	3.5 inches of freeboard.
03/15/2023	820	No				Series		Lead	Closed		Closed FB2 for changeout.	4 inches of freeboard.
03/16/2023	821	No				Lead	Changeout	Lead	Lag		GAC changeout in FB2.	13.5 inches of freeboard.
03/17/2023	822	No				Series		Series			N/A	22 inches of freeboard.
03/20/2023	825	No	X			Series		Series		X	N/A	13.5 inches of freeboard.
03/21/2023	826	No				Series		Series			N/A	13.5 inches of freeboard.
03/22/2023	827	No				Series		Series			Skimmed and fluffed FB1.	N/A
03/23/2023	828	No				Series		Series			Pumped impoundment water into cell to increase production.	13 inches of freeboard.
03/24/2023	829	No				Series		Series			N/A	14 inches of freeboard.
03/27/2023	832	Yes	X			Series		Lead	Closed	X	Skimmed and fluffed FB1.	N/A
03/28/2023	833	No				Lead	Closed	Lead	Closed		N/A	7 inches of freeboard.
03/29/2023	834	No		X		Lead	Closed	Lead	Closed		N/A	4 inches of freeboard.
03/30/2023	835	No				Series		Series			Skimmed and fluffed FB1.	8 inches of freeboard.
03/31/2023	836	No				Series		Series			N/A	11 inches of freeboard.
04/03/2023	839	No	X			Series		Series		X	Skimmed and fluffed FB1.	13 inches of freeboard.
04/04/2023	840	No				Series		Series			N/A	14 inches of freeboard.
04/05/2023	841	No				Series		Series			N/A	13.75 inches of freeboard.
04/06/2023	842	No				Series		Series			N/A	14 inches of freeboard.
04/07/2023	843	No				Series		Series			N/A	13.5 inches of freeboard.
04/09/2023	845	Yes		X	X	Series		Series			N/A	N/A
04/14/2023	850	No				Series		Lead	Closed		Backflushed FB1.	5.5 inches of freeboard.
04/17/2023	853	No	X			Lead	Closed	Series		X	N/A	14.5 inches of freeboard.
04/18/2023	854	No				Series		Series			Skimmed and fluffed FB1.	14.5 inches of freeboard.
04/19/2023	855	No				Series		Series			N/A	14.5 inches of freeboard.
04/23/2023	859	No				Series		Lead	Closed		N/A	4 inches of freeboard.
04/24/2023	860	No	X			Lead	Closed	Lead	Closed	X	Skimmed, fluffed, and backflushed FB1.	9 inches of freeboard.
04/25/2023	861	No				Lead	Closed	Closed	Lead		Skimmed and fluffed FB2.	14 inches of freeboard
04/26/2023	862	No				Closed	Lead	Closed	Lead		Emptied FB1.	14 inches of freeboard.
04/27/2023	863	No				Closed	Changeout	Lag	Lead		GAC changeout and fabric replaced in FB1.	13.5 inches of freeboard.
04/28/2023	864	No		X		Series		Series			N/A	N/A

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

Table 1d
Summary of Operations and Maintenance Activities - Seep D
Reporting Period 14 (Mar - Apr 2023)
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			
03/01/2023	616	No				Series		Series			Skimmed and fluffed FB1.	13 inches of freeboard.
03/02/2023	617	No				Series		Series			N/A	21 inches of freeboard.
03/03/2023	618	No				Series		Series			N/A	20 inches of freeboard.
03/06/2023	621	No	X			Series		Series		X	Skimmed and fluffed FB1.	13 inches of freeboard.
03/07/2023	622	No				Series		Series			N/A	20 inches of freeboard.
03/08/2023	623	No				Series		Series			N/A	20 inches of freeboard.
03/09/2023	624	No				Series		Series			N/A	18 inches of freeboard.
03/10/2023	625	No				Series		Series			Skimmed and fluffed FB1.	16 inches of freeboard.
03/11/2023	626	No				Series		Series			N/A	21 inches of freeboard.
03/13/2023	628	No	X		X	Series		Series		X	N/A	18 inches of freeboard.
03/14/2023	629	No		X		Series		Series			N/A	16 inches of freeboard.
03/15/2023	630	No				Series		Series			Skimmed and fluffed FB1.	19 inches of freeboard.
03/16/2023	631	No				Series		Series			N/A	21 inches of freeboard.
03/17/2023	632	No				Series		Series			N/A	21 inches of freeboard.
03/20/2023	635	No	X			Series		Series		X	Skimmed and fluffed FB1.	17 inches of freeboard.
03/21/2023	636	No				Series		Series			Pumped impoundment water into cell to increase production.	22 inches of freeboard.
03/22/2023	637	No				Series		Series			N/A	21 inches of freeboard.
03/23/2023	638	No				Series		Series			Pumped impoundment water into cell to increase production.	21.5 inches of freeboard.
03/24/2023	639	No				Series		Series			N/A	21 inches of freeboard.
03/27/2023	642	No	X			Series		Series		X	Skimmed and fluffed FB1.	15 inches of freeboard.
03/28/2023	643	No				Series		Series			N/A	21 inches of freeboard.
03/29/2023	644	No		X		Series		Series			N/A	19.5 inches of freeboard.
03/30/2023	645	No				Series		Series			N/A	19 inches of freeboard.
03/31/2023	646	No				Series		Series			N/A	19 inches of freeboard.
04/03/2023	649	No	X			Series		Series			N/A	17 inches of freeboard.
04/04/2023	650	No				Series		Series		X	Skimmed and fluffed FB1.	17 inches of freeboard.
04/05/2023	651	No				Series		Series			N/A	21.5 inches of freeboard.
04/06/2023	652	No				Series		Series			N/A	21 inches of freeboard.
04/07/2023	653	No				Series		Series			N/A	21 inches of freeboard.
04/09/2023	655	No		X	X	Series		Series			N/A	N/A
04/14/2023	660	No				Series		Series			Cleaned FB1 and FB2.	6.5 inches of freeboard
04/17/2023	663	No	X			Series		Series		X	Skimmed and fluffed FB1.	6 inches of freeboard.
04/18/2023	664	No				Series		Series			N/A	7 inches of freeboard.
04/19/2023	665	No				Series		Series			Skimmed and fluffed FB1.	N/A
04/21/2023	667	No				Series		Series			Backflushed FB1.	8.5 inches of freeboard.
04/23/2023	669	No				Series		Series			N/A	13 inches of freeboard.
04/24/2023	670	No	X			Series		Series		X	Skimmed and fluffed FB1.	13 inches of freeboard.
04/25/2023	671	No				Series		Series			N/A	16 inches of freeboard.
04/28/2023	674	No		X		Series		Series			Skimmed and fluffed FB1.	N/A

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

Table 2a
Sampling Summary - Seep A
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-A-INFLUENT-336-031423 SEEP-A-EFFLUENT-336-031423	March 1 - March 14, 2023	March 14, 2023
SEEP-A-INFLUENT-336-032923 SEEP-A-EFFLUENT-336-032923	March 15 - March 29, 2023	March 29, 2023
SEEP-A-INFLUENT-204-040923 SEEP-A-EFFLUENT-204-040923	April 1 - April 9, 2023	April 9, 2023
SEEP-A-INFLUENT-318-042823 SEEP-A-EFFLUENT-336-042823	April 14 - April 28, 2023	April 28, 2023

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-A-INFLUENT-RAIN-24-031323 SEEP-A-EFFLUENT-RAIN-24-031323	March 13, 2023	16:23	0.61
SEEP-A-INFLUENT-RAIN-19-040923 SEEP-A-EFFLUENT-RAIN-19-040923	April 9, 2023	09:28	2.34

Notes

1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
2 From April 9 through April 13, 2023, the Cape Fear River rose above the action level that was developed for FTC management (see Section 2.3). The ISCO autosamplers were stopped on April 9 in order to remove the devices.
3 During the collection of the April 28 influent sample, the autosampler briefly malfunctioned, resulting in the collection of fewer aliquots (318) than planned (336).
4 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.

Table 2b
Sampling Summary - Seep B
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-B-INFLUENT-336-031423 SEEP-B-EFFLUENT-336-031423	March 1 - March 14, 2023	March 14, 2023
SEEP-B-INFLUENT-336-032923 SEEP-B-EFFLUENT-336-032923	March 15 - March 29, 2023	March 29, 2023
SEEP-B-INFLUENT-204-040923 SEEP-B-EFFLUENT-204-040923	April 1 - April 9, 2023	April 9, 2023
SEEP-B-INFLUENT-336-042823 SEEP-B-EFFLUENT-336-042823	April 14 - April 28, 2023	April 28, 2023

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-B-INFLUENT-RAIN-24-031323 SEEP-B-EFFLUENT-RAIN-24-031323	March 13, 2023	17:51	0.61
SEEP-B-INFLUENT-RAIN-20-040923 SEEP-B-EFFLUENT-RAIN-20-040923	April 9, 2023	08:42	2.34

Notes

1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
2 From April 9 through April 13, 2023, the Cape Fear River rose above the action level that was developed for FTC management (see Section 2.3). The ISCO autosamplers were stopped on April 9 in order to remove the devices.
3 Precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.

Table 2c
Sampling Summary - Seep C
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-C-INFLUENT-336-031423 SEEP-C-EFFLUENT-336-031423	March 1 - March 14, 2023	March 14, 2023
SEEP-C-INFLUENT-336-032923 SEEP-C-EFFLUENT-336-032923	March 15 - March 29, 2023	March 29, 2023
SEEP-C-INFLUENT-204-040923 SEEP-C-EFFLUENT-204-040923	April 1 - April 9, 2023	April 9, 2023
SEEP-C-INFLUENT-336-042823 SEEP-C-EFFLUENT-318-042823	April 14 - April 28, 2023	April 28, 2023

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-C-INFLUENT-RAIN-24-031323	March 13, 2023	16:28	0.61
SEEP-C-EFFLUENT-RAIN-24-031423	March 14, 2023	08:50	0.55
SEEP-C-INFLUENT-RAIN-20-040923 SEEP-C-EFFLUENT-RAIN-20-040923	April 9, 2023	08:38	2.34

Notes

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

2 From April 9 through April 13, 2023, the Cape Fear River rose above the action level that was developed for FTC management (see Section 2.3). The ISCO autosamplers were stopped on April 9 in order to remove the devices.

3 During the collection of the April 28 effluent sample, the autosampler briefly malfunctioned, resulting in the collection of fewer aliquots (318) than planned (336).

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 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Performance Monitoring Composite Samples

Sample ID	Composite Period	Sample Date
SEEP-D-INFLUENT-336-031423 SEEP-D-EFFLUENT-336-031423	March 1 - March 14, 2023	March 14, 2023
SEEP-D-INFLUENT-336-032923 SEEP-D-EFFLUENT-336-032923	March 15 - March 29, 2023	March 29, 2023
SEEP-D-INFLUENT-204-040923 SEEP-D-EFFLUENT-204-040923	April 1 - April 9, 2023	April 9, 2023
SEEP-D-INFLUENT-336-042823 SEEP-D-EFFLUENT-336-042823	April 14 - April 28, 2023	April 28, 2023

Wet Weather Composite Sample

Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
SEEP-D-INFLUENT-RAIN-24-031323 SEEP-D-EFFLUENT-RAIN-24-031323	March 13, 2023	18:01	0.61
SEEP-D-INFLUENT-RAIN-21-040923 SEEP-D-EFFLUENT-RAIN-21-040923	April 9, 2023	09:54	2.34

Notes

1 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"
2 From April 9 through April 13, 2023, the Cape Fear River rose above the action level that was developed for FTC management (see Section 2.3). The ISCO autosamplers were stopped on April 9 in order to remove the devices.
3 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 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-A-INFLUENT-336-031423** Sample Date: 14-Mar-23	**SEEP-A-EFFLUENT-336-031423** Sample Date: 14-Mar-23	**Percent Removal**	**SEEP-A-INFLUENT-336-032923** Sample Date: 29-Mar-23	**SEEP-A-EFFLUENT-336-032923** Sample Date: 29-Mar-23	**Percent Removal**	**SEEP-A-INFLUENT-204-040923** Sample Date: 9-Apr-23	**SEEP-A-EFFLUENT-204-040923** Sample Date: 9-Apr-23	**Percent Removal**	**SEEP-A-INFLUENT-318-042823** Sample Date: 28-Apr-23	**SEEP-A-EFFLUENT-336-042823** Sample Date: 28-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**23,000**	<2.0	>99.9%	**23,000 J**	**6.8**	>99.9%	**17,000**	**24**	99.9%	**15,000**	**66**	99.6%
PFMOAA	**60,000**	**15**	>99.9%	**46,000**	**19 J**	>99.9%	**36,000**	**160**	99.6%	**27,000**	**280**	99.0%
PFO2HxA	**30,000**	**2.5**	>99.9%	**28,000**	**8.5**	>99.9%	**20,000**	**45**	99.8%	**19,000**	**130**	99.3%
PFO3OA	**10,000**	<2.0	>99.9%	**9,200**	**2.2**	>99.9%	**6,000**	**8.3**	99.9%	**5,600**	**26.00**	99.5%
PFO4DA	**4,300**	<2.0	>99.9%	**3,900**	<2.0	>99.9%	**2,600**	**2.4**	99.9%	**2,500**	**9.3**	99.6%
PFO5DA	**2,000**	<2.0	>99.9%	**2,100**	<2.0	>99.9%	**1,000**	<2.0	>99.9%	**1,400**	**4.1**	99.7%
PMPA	**15,000**	<10	>99.9%	**14,000**	<10	>99.9%	**12,000**	**72**	99.4%	**12,000**	**150**	98.8%
PEPA	**6,000**	<20	>99.9%	**6,200**	<20	>99.9%	**5,300**	<20	>99.9%	**5,100**	**36**	99.3%
PS Acid	**1,300**	<2.0	>99.9%	**1,100**	<2.0	>99.9%	**580**	<2.0	>99.9%	**570**	<2.0	>99.9%
Hydro-PS Acid	**880**	<2.0	>99.9%	**800**	<2.0	>99.9%	**470**	<2.0	>99.9%	**440**	<2.0	>99.9%
R-PSDA	**1,700 J**	<2.0	>99.9%	**1,900 J**	<2.0	>99.9%	**1,100 J**	<2.0	>99.9%	**830 J**	**5.3 J**	99.4%
Hydrolyzed PSDA	**18,000 J**	<2.0	>99.9%	**13,000 J**	**3.2 J**	>99.9%	**4,700 J**	**9.7 J**	99.8%	**3,300 J**	**44 J**	98.7%
R-PSDCA	**34**	<2.0	>99.9%	**27**	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%
NVHOS, Acid Form	**860**	<2.0	>99.9%	**900**	<2.0	>99.9%	**500**	<2.0	>99.9%	**470**	**3.4**	99.3%
EVE Acid	**200**	<2.0	>99.9%	**260**	<2.0	>99.9%	**150**	<2.0	>99.9%	**140**	<2.0	>99.9%
Hydro-EVE Acid	**950**	<2.0	>99.9%	**720**	<2.0	>99.9%	**570**	<2.0	>99.9%	**540**	**2**	99.6%
R-EVE	**670 J**	<2.0	>99.9%	**760 J**	<2.0	>99.9%	**640 J**	<2.0	>99.9%	**430 J**	**2.1 J**	99.5%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<27	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<48	<2.0	>99.9%
Total Table 3+ (17 compounds)[1,2]	**150,000**	**18**	**>99.9%**	**140,000**	**37**	**>99.9%**	**100,000**	**310**	**99.7%**	**90,000**	**710**	**99.2%**
Total Table 3+ (20 compounds)[1]	**170,000**	**18**	**>99.9%**	**150,000**	**40**	**>99.9%**	**110,000**	**320**	**99.7%**	**94,000**	**760**	**99.2%**

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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 3b
Summary of Performance Monitoring Analytical Results - Seep B
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-B-INFLUENT-336-031423** Sample Date: 14-Mar-23	**SEEP-B-EFFLUENT-336-031423** Sample Date: 14-Mar-23	**Percent Removal**	**SEEP-B-INFLUENT-336-032923** Sample Date: 29-Mar-23	**SEEP-B-EFFLUENT-336-032923** Sample Date: 29-Mar-23	**Percent Removal**	**SEEP-B-INFLUENT-204-040923** Sample Date: 9-Apr-23	**SEEP-B-EFFLUENT-204-040923** Sample Date: 9-Apr-23	**Percent Removal**	**SEEP-B-INFLUENT-336-042823** Sample Date: 28-Apr-23	**SEEP-B-EFFLUENT-336-042823** Sample Date: 28-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**34,000**	**9.5**	>99.9%	**47,000**	**77**	99.8%	**51,000**	**1,100**	97.8%	**44,000**	**88**	99.8%
PFMOAA	**120,000**	**57**	>99.9%	**29,000**	**59**	99.8%	**15,000**	**280**	98.1%	**23,000**	**170**	99.3%
PFO2HxA	**39,000**	**11**	>99.9%	**18,000**	**24**	99.9%	**14,000**	**320**	97.7%	**11,000**	**66**	99.4%
PFO3OA	**9,700**	**2.4**	>99.9%	**5,100**	**6.9**	99.9%	**3,800**	**89**	97.7%	**2,500**	**14**	99.4%
PFO4DA	**1,700**	<2.0	>99.9%	**1,800**	**2.1**	99.9%	**1,500**	**39**	97.4%	**1,300**	**3.3**	99.7%
PFO5DA	**230**	<2.0	>99.9%	**610**	<2.0	>99.9%	**700**	**11**	98.4%	**510**	<2.0	>99.9%
PMPA	**32,000**	**37**	99.9%	**47,000**	**89**	99.8%	**46,000**	**1,200**	97.4%	**37,000**	**180**	99.5%
PEPA	**15,000**	<20	>99.9%	**30,000**	**42**	99.9%	**29,000**	**730**	97.5%	**21,000**	**66**	99.7%
PS Acid	**1,700**	<2.0	>99.9%	**5,200**	**6.0**	99.9%	**5,100**	**130**	97.5%	**4,000**	**4.5**	99.9%
Hydro-PS Acid	**1,600**	<2.0	>99.9%	**3,000**	**3.4**	99.9%	**3,600**	**79**	97.8%	**2,600**	**3.4**	99.9%
R-PSDA	**5,100 J**	<2.0	>99.9%	**9,400 J**	**9.7 J**	99.9%	**9,500 J**	**150 J**	98.4%	**4,900 J**	**13 J**	99.7%
Hydrolyzed PSDA	**51,000 J**	**10**	>99.9%	**63,000 J**	**85 J**	99.9%	**51,000 J**	**1,000 J**	98.0%	**29,000 J**	**99 J**	99.7%
R-PSDCA	**88**	<2.0	>99.9%	**150**	<2.0	>99.9%	**200**	**3.9**	98.1%	<35	<2.0	>99.9%
NVHOS, Acid Form	**2,500**	<2.0	>99.9%	**4,100**	**5.2**	99.9%	**3,700**	**91**	97.5%	**2,800**	**6.8**	99.8%
EVE Acid	**1,300**	<2.0	>99.9%	**4,000**	**5.1**	99.9%	**3,900**	**110**	97.2%	**3,100**	**3.3**	99.9%
Hydro-EVE Acid	**2,400**	<2.0	>99.9%	**5,300**	**6.9**	99.9%	**5,100**	**140**	97.3%	**4,700**	**6.9**	99.9%
R-EVE	**2,200 J**	<2.0	>99.9%	**5,500 J**	**6.3 J**	99.9%	**5,500 J**	**83 J**	98.5%	**3,500 J**	**6.8 J**	99.8%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<13	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<53	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<96	<2.0	>99.9%
Total Table 3+ (17 compounds)[1,2]	**260,000**	**120**	**>99.9%**	**200,000**	**330**	**99.8%**	**180,000**	**4,300**	**97.6%**	**160,000**	**610**	**99.6%**
Total Table 3+ (20 compounds)[1]	**320,000**	**130**	**>99.9%**	**280,000**	**430**	**99.8%**	**250,000**	**5,600**	**97.8%**	**190,000**	**730**	**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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 3c
Summary of Performance Monitoring Analytical Results - Seep C
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-C-INFLUENT-336-031423** Sample Date: 14-Mar-23	**SEEP-C-EFFLUENT-336-031423** Sample Date: 14-Mar-23	**Percent Removal**	**SEEP-C-INFLUENT-336-032923** Sample Date: 29-Mar-23	**SEEP-C-EFFLUENT-336-032923** Sample Date: 29-Mar-23	**Percent Removal**	**SEEP-C-INFLUENT-204-040923** Sample Date: 9-Apr-23	**SEEP-C-EFFLUENT-204-040923** Sample Date: 9-Apr-23	**Percent Removal**	**SEEP-C-INFLUENT-336-042823** Sample Date: 28-Apr-23	**SEEP-C-EFFLUENT-318-042823** Sample Date: 28-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**17,000**	**6.5**	>99.9%	**13,000**	**24**	99.8%	**13,000**	**42**	99.7%	**7,800**	**32**	99.6%
PFMOAA	**55,000**	**18**	>99.9%	**37,000**	**130**	99.6%	**32,000**	**220**	99.3%	**23,000**	**89**	99.6%
PFO2HxA	**24,000**	**11**	>99.9%	**18,000**	**46**	99.7%	**16,000**	**100**	99.4%	**11,000**	**55**	99.5%
PFO3OA	**8,100**	**3.0**	>99.9%	**5,700**	**9.3**	99.8%	**4,800**	**14**	99.7%	**3,300**	**10**	99.7%
PFO4DA	**2,700**	<2.0	>99.9%	**2,100**	**2.7**	99.9%	**1,800**	**3.9**	99.8%	**1,200**	**3.2**	99.7%
PFO5DA	**86**	<2.0	>99.9%	**95**	<2.0	>99.9%	**83**	<2.0	>99.9%	<78	<2.0	>99.9%
PMPA	**8,200**	<10	>99.9%	**6,500**	**47**	99.3%	**5,900**	**76**	98.7%	**4,000**	**40**	99.0%
PEPA	**2,600**	<20	>99.9%	**2,100**	<20	>99.9%	**1,900**	<20	>99.9%	**1,300**	<20	>99.9%
PS Acid	<20	<2.0	>99.9%	<20	<2.0	>99.9%	<20	<2.0	>99.9%	<20	<2.0	>99.9%
Hydro-PS Acid	**450**	<2.0	>99.9%	**320**	<2.0	>99.9%	**330**	<2.0	>99.9%	**200**	<2.0	>99.9%
R-PSDA	**770 J**	<2.0	>99.9%	**710 J**	<2.0	>99.9%	**740 J**	<2.0	>99.9%	**290 J**	<2.0	>99.9%
Hydrolyzed PSDA	**1,100 J**	<2.0	>99.9%	**820 J**	<2.0	>99.9%	**710 J**	<2.0	>99.9%	**270 J**	<2.0	>99.9%
R-PSDCA	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%
NVHOS, Acid Form	**660**	<2.0	>99.9%	**520**	<2.0	>99.9%	**420**	**2.4**	99.4%	**260**	<2.0	>99.9%
EVE Acid	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%
Hydro-EVE Acid	**1,300**	<2.0	>99.9%	**920**	<2.0	>99.9%	**890**	<2.0	>99.9%	**680**	**2.4**	99.6%
R-EVE	**620 J**	<2.0	>99.9%	**520 J**	<2.0	>99.9%	**570 J**	<2.0	>99.9%	**230 J**	<2.0	>99.9%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<27	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<48	<2.0	>99.9%
Total Table 3+ (17 compounds)[1,2]	**120,000**	**39**	**>99.9%**	**86,000**	**260**	**99.7%**	**77,000**	**460**	**99.4%**	**53,000**	**230**	**99.6%**
Total Table 3+ (20 compounds)[1]	**120,000**	**39**	**>99.9%**	**88,000**	**260**	**99.7%**	**79,000**	**460**	**99.4%**	**54,000**	**230**	**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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 3d
Summary of Performance Monitoring Analytical Results - Seep D
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3 + SOP (ng/ L)	**SEEP-D-INFLUENT-336-031423** Sample Date: 14-Mar-23	**SEEP-D-EFFLUENT-336-031423** Sample Date: 14-Mar-23	**Percent Removal**	**SEEP-D-INFLUENT-336-032923** Sample Date: 29-Mar-23	**SEEP-D-EFFLUENT-336-032923** Sample Date: 29-Mar-23	**Percent Removal**	**SEEP-D-INFLUENT-204-040923** Sample Date: 9-Apr-23	**SEEP-D-EFFLUENT-204-040923** Sample Date: 9-Apr-23	**Percent Removal**	**SEEP-D-INFLUENT-336-042823** Sample Date: 28-Apr-23	**SEEP-D-EFFLUENT-336-042823** Sample Date: 28-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**15,000**	**6.6**	>99.9%	**11,000**	**4.9**	>99.9%	**14,000**	**5.2**	>99.9%	**7,000**	**5.7**	99.9%
PFMOAA	**51,000**	**150**	99.7%	**43,000**	**96**	99.8%	**39,000**	**83**	99.8%	**25,000**	**21**	99.9%
PFO2HxA	**20,000**	**19**	99.9%	**19,000**	**15**	99.9%	**17,000**	**16**	99.9%	**11,000**	**8.9**	99.9%
PFO3OA	**6,900**	**2.5**	>99.9%	**6,200**	<2.0	>99.9%	**5,400**	<2.0	>99.9%	**3,100**	<2.0	>99.9%
PFO4DA	**2,100**	<2.0	>99.9%	**2,000**	<2.0	>99.9%	**1,600**	<2.0	>99.9%	**1,000**	<2.0	>99.9%
PFO5DA	**150**	<2.0	>99.9%	**180**	<2.0	>99.9%	**160**	<2.0	>99.9%	**94**	<2.0	>99.9%
PMPA	**6,400**	**34**	99.5%	**6,400**	**23**	99.6%	**5,700**	**19**	99.7%	**3,700**	<10	>99.9%
PEPA	**2,000**	<20	>99.9%	**2,100**	<20	>99.9%	**1,800**	<20	>99.9%	**1,300**	<20	>99.9%
PS Acid	<20	<2.0	>99.9%	<20	<2.0	>99.9%	<20	<2.0	>99.9%	<20	<2.0	>99.9%
Hydro-PS Acid	**300**	<2.0	>99.9%	**310**	<2.0	>99.9%	**290**	<2.0	>99.9%	**160**	<2.0	>99.9%
R-PSDA	**680 J**	<2.0	>99.9%	**760 J**	<2.0	>99.9%	**870 J**	<2.0	>99.9%	**310 J**	<2.0	>99.9%
Hydrolyzed PSDA	**2,100 J**	<2.0	>99.9%	**2,000 J**	<2.0	>99.9%	**1,800 J**	<2.0	>99.9%	**580 J**	<2.0	>99.9%
R-PSDCA	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%
NVHOS, Acid Form	**590**	<2.0	>99.9%	**620**	<2.0	>99.9%	**550**	<2.0	>99.9%	**320**	<2.0	>99.9%
EVE Acid	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%	<17	<2.0	>99.9%
Hydro-EVE Acid	**950**	<2.0	>99.9%	**820**	<2.0	>99.9%	**900**	<2.0	>99.9%	**560**	<2.0	>99.9%
R-EVE	**610 J**	<2.0	>99.9%	**650 J**	<2.0	>99.9%	**710 J**	<2.0	>99.9%	**250 J**	<2.0	>99.9%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<27	<2.0	>99.9%	<27	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<48	<2.0	>99.9%	<48	<2.0	>99.9%
Total Table 3+ (17 compounds)[1,2]	**110,000**	**210**	**99.8%**	**92,000**	**140**	**99.8%**	**86,000**	**120**	**99.9%**	**53,000**	**36**	**99.9%**
Total Table 3+ (20 compounds)[1]	**110,000**	**210**	**99.8%**	**95,000**	**140**	**99.9%**	**90,000**	**120**	**99.9%**	**54,000**	**36**	**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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

Table 4a
Summary of Wet Weather Analytical Results - Seep A
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-A-INFLUENT-RAIN-24-031323** Sample Date: 13-Mar-23	**SEEP-A-EFFLUENT-RAIN-24-031323** Sample Date: 13-Mar-23	**Percent Removal**	**SEEP-A-INFLUENT-RAIN-19-040923** Sample Date: 09-Apr-23	**SEEP-A-EFFLUENT-RAIN-19-040923** Sample Date: 09-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**22,000**	<2.0	>99.9%	**13,000**	**12**	99.9%
PFMOAA	**64,000**	**13**	>99.9%	**33,000**	**120**	99.6%
PFO2HxA	**30,000**	**2.6**	>99.9%	**21,000**	**26**	99.9%
PFO3OA	**8,800**	<2.0	>99.9%	**6,900**	**4.2**	99.9%
PFO4DA	**3,600**	<2.0	>99.9%	**2,800**	<2.0	>99.9%
PFO5DA	**1,800**	<2.0	>99.9%	**1,300**	<2.0	>99.9%
PMPA	**16,000**	<10	>99.9%	**13,000**	**53**	99.6%
PEPA	**6,700**	<20	>99.9%	**5,600**	<20	>99.9%
PS Acid	**950**	<2.0	>99.9%	**550**	<2.0	>99.9%
Hydro-PS Acid	**760**	<2.0	>99.9%	**460**	<2.0	>99.9%
R-PSDA	**1,700 J**	<2.0	>99.9%	**1,100 J**	<2.0	>99.9%
Hydrolyzed PSDA	**17,000 J**	<2.0	>99.9%	**5,600 J**	**6.1 J**	99.9%
R-PSDCA	**31**	<2.0	>99.9%	**18**	<2.0	>99.9%
NVHOS, Acid Form	**840**	<2.0	>99.9%	**550**	<2.0	>99.9%
EVE Acid	**120**	<2.0	>99.9%	**120**	<2.0	>99.9%
Hydro-EVE Acid	**780**	<2.0	>99.9%	**490**	<2.0	>99.9%
R-EVE	**720 J**	<2.0	>99.9%	**600 J**	<2.0	>99.9%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%
Total Table 3+ (17 Compounds)[1,2]	**160,000**	**16**	**>99.9%**	**99,000**	**220**	**99.8%**
Total Table 3+ (20 Compounds)[1]	**180,000**	**16**	**>99.9%**	**110,000**	**220**	**99.8%**

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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
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 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-B-INFLUENT-RAIN-24-031323** Sample Date: 13-Mar-23	**SEEP-B-EFFLUENT-RAIN-24-031323** Sample Date: 13-Mar-23	**Percent Removal**	**SEEP-B-INFLUENT-RAIN-20-040923** Sample Date: 09-Apr-23	**SEEP-B-EFFLUENT-RAIN-20-040923** Sample Date: 09-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**43,000**	**5.4**	>99.9%	**34,000**	**42 J**	99.9%
PFMOAA	**62,000**	**37**	99.9%	**8,000**	**73 J**	99.1%
PFO2HxA	**25,000**	**5.7**	>99.9%	**7,000**	**23**	99.7%
PFO3OA	**6,700**	<2.0	>99.9%	**2,300**	**5.5**	99.8%
PFO4DA	**1,700**	<2.0	>99.9%	**1,100**	<2.0	>99.9%
PFO5DA	**390**	<2.0	>99.9%	**460**	<2.0	>99.9%
PMPA	**41,000**	**26**	99.9%	**25,000**	**77**	99.7%
PEPA	**23,000**	<20	>99.9%	**15,000**	**28**	99.8%
PS Acid	**3,000**	<2.0	>99.9%	**2,900**	**3.1**	99.9%
Hydro-PS Acid	**2,400**	<2.0	>99.9%	**2,000**	**2.3**	99.9%
R-PSDA	**6,700 J**	<2.0	>99.9%	**4,500 J**	**3.7 J**	99.9%
Hydrolyzed PSDA	**58,000 J**	**4.7 J**	>99.9%	**28,000 J**	**32 J**	99.9%
R-PSDCA	**130**	<2.0	>99.9%	**110**	<2.0	>99.9%
NVHOS, Acid Form	**3,000**	<2.0	>99.9%	**2,200**	**4**	99.8%
EVE Acid	**2,400**	<2.0	>99.9%	**2,100**	**2.3**	99.9%
Hydro-EVE Acid	**4,000**	<2.0	>99.9%	**3,100**	**3.6**	99.9%
R-EVE	**3,600 J**	<2.0	>99.9%	**2,600 J**	**3.0 J**	99.9%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%
Total Table 3+ (17 Compounds)[1,2]	**220,000**	**74**	**>99.9%**	**110,000**	**260**	**99.8%**
Total Table 3+ (20 Compounds)[1]	**290,000**	**79**	**>99.9%**	**140,000**	**300**	**99.8%**

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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
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 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-C-INFLUENT-RAIN-24-031323** Sample Date: 13-Mar-23	**SEEP-C-EFFLUENT-RAIN-24-031423** Sample Date: 14-Mar-23	**Percent Removal**	**SEEP-C-INFLUENT-RAIN-20-040923** Sample Date: 09-Apr-23	**SEEP-C-EFFLUENT-RAIN-20-040923** Sample Date: 09-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**16,000**	<2.0	>99.9%	**8,000**	**80**	99.0%
PFMOAA	**49,000**	**6.1**	>99.9%	**19,000**	**240**	98.7%
PFO2HxA	**20,000**	**3.2**	>99.9%	**9,700**	**110**	98.9%
PFO3OA	**6,700**	<2.0	>99.9%	**3,500**	**35**	99.0%
PFO4DA	**2,200**	<2.0	>99.9%	**1,200**	**11**	99.1%
PFO5DA	**78**	<2.0	>99.9%	<78	<2.0	>99.9%
PMPA	**7,100**	<10	>99.9%	**3,500**	**72**	97.9%
PEPA	**2,200**	<20	>99.9%	**1,100**	<20	>99.9%
PS Acid	<20	<2.0	>99.9%	<20	<2.0	>99.9%
Hydro-PS Acid	**380**	<2.0	>99.9%	**210**	<2.0	>99.9%
R-PSDA	**680 J**	<2.0	>99.9%	**280 J**	<2.0	>99.9%
Hydrolyzed PSDA	**1,000 J**	<2.0	>99.9%	**350 J**	**2.3 J**	99.3%
R-PSDCA	<17	<2.0	>99.9%	<17	<2.0	>99.9%
NVHOS, Acid Form	**510**	<2.0	>99.9%	**260**	**3.3**	98.7%
EVE Acid	<17	<2.0	>99.9%	<17	<2.0	>99.9%
Hydro-EVE Acid	**1,100**	<2.0	>99.9%	**550**	**4.8**	99.1%
R-EVE	**530 J**	<2.0	>99.9%	**280 J**	<2.0	>99.9%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%
Total Table 3+ (17 Compounds)[1,2]	**110,000**	**9.3**	**>99.9%**	**47,000**	**560**	**98.8%**
Total Table 3+ (20 Compounds)[1]	**110,000**	**9.3**	**>99.9%**	**48,000**	**560**	**98.8%**

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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
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 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Table 3+ SOP (ng/L)	**SEEP-D-INFLUENT-RAIN-24-031323** Sample Date: 13-Mar-23	**SEEP-D-EFFLUENT-RAIN-24-031323** Sample Date: 13-Mar-23	**Percent Removal**	**SEEP-D-INFLUENT-RAIN-21-040923** Sample Date: 09-Apr-23	**SEEP-D-EFFLUENT-RAIN-21-040923** Sample Date: 09-Apr-23	**Percent Removal**
Hfpo Dimer Acid	**15,000**	**6.5**	>99.9%	**7,800**	**5.1**	99.9%
PFMOAA	**52,000**	**120**	99.8%	**35,000**	**57**	99.8%
PFO2HxA	**20,000**	**15**	99.9%	**16,000**	**11**	99.9%
PFO3OA	**6,700**	<2.0	>99.9%	**5,600**	<2.0	>99.9%
PFO4DA	**1,900**	<2.0	>99.9%	**1,800**	<2.0	>99.9%
PFO5DA	**160**	<2.0	>99.9%	**160**	<2.0	>99.9%
PMPA	**6,400**	**27**	99.6%	**5,200**	<10	>99.9%
PEPA	**2,000**	<20	>99.9%	**1,700**	<20	>99.9%
PS Acid	<20	<2.0	>99.9%	<20	<2.0	>99.9%
Hydro-PS Acid	**340**	<2.0	>99.9%	**260**	<2.0	>99.9%
R-PSDA	**800 J**	<2.0	>99.9%	**500 J**	<2.0	>99.9%
Hydrolyzed PSDA	**2,100 J**	<2.0	>99.9%	**1,400 J**	<2.0	>99.9%
R-PSDCA	<17	<2.0	>99.9%	<17	<2.0	>99.9%
NVHOS, Acid Form	**600**	<2.0	>99.9%	**500**	<2.0	>99.9%
EVE Acid	<17	<2.0	>99.9%	<17	<2.0	>99.9%
Hydro-EVE Acid	**1,000**	<2.0	>99.9%	**840**	<2.0	>99.9%
R-EVE	**620 J**	<2.0	>99.9%	**460 J**	<2.0	>99.9%
Perfluoro(2-ethoxyethane)sulfonic Acid	<6.7	<2.0	>99.9%	<6.7	<2.0	>99.9%
PFECA B	<27	<2.0	>99.9%	<27	<2.0	>99.9%
PFECA-G	<48	<2.0	>99.9%	<48	<2.0	>99.9%
Total Table 3+ (17 Compounds)[1,2]	**110,000**	**170**	**99.8%**	**75,000**	**73**	**99.9%**
Total Table 3+ (20 Compounds)[1]	**110,000**	**170**	**99.8%**	**77,000**	**73**	**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
SOP - standard operating procedure
< - Analyte not detected above associated reporting limit.
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 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, NC

Seep	# of Days of Operation on Record	Percent of Operation Over Lifetime of System[2]			
		River Above FTC Wall Elevation	River Above Bypass Spillway Elevation	River Above GAC Elevation	River Above Discharge Pipe Invert Elevation
C	866	2.0%	2.5%	4.6%	11.2%
A	733	0.8%	0.9%	1.8%	4.9%
B	692	0.7%	0.8%	1.3%	3.7%
D	676	0.9%	1.0%	1.9%	5.4%
Historical Annual Average (2007-2020) [3,4]		1.7%	2.2%	3.7%	9.6%

Precipitation (inches)	
Current Reporting Period (March - April 2023)	7.20
Current Reporting Period Historical Average (March - April 2004-2020) [5]	5.92
2023 Year-to-Date	13.79
Historical Year-to-Date Average (2004-2020) [5]	11.31
Historical Annual Average (2004-2020) [5]	43.44

Notes

1 River elevation and precipitation data obtained from the USGS gauge #02105500 at the William O. Huske Lock and Dam.
2 Operational period for river flooding statistics includes the entire lifetime of the system for each seep.
3 Seeps A and D are approximately 1 foot lower in elevation than Seeps B and C.
4 For clarity of presentation, historical river flooding averages based on Seep C elevations only.
5 The historical average was calculated using available data when the Huske rain gauge was operable.

Table 6a
Water Quality Data - Seep A
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference[2]
3/14/2023	4.3	5.7	1.4	8.6	8.4	-0.2	950	862	-88	19	18	-1	31.47	2.12	-29.35	10 J	<1.1	-10.0
3/29/2023	8.0	8.2	0.2	8.4	8.1	-0.3	169	159	-10	18	17	-1	230.16	11.02	-219.14	160	<1.1	-160.0
4/9/2023	8.4	8.7	0.3	7.6	7.6	0.0	1,558	349	-1209	15	14	-1	28.85	0.93	-27.92	NS	NS	NS
4/28/2023	6.8	7.0	0.2	7.9	7.6	-0.3	300	212	-88	21	20	-1	27.13	1.33	-25.80	13	<1.1	-13.0
Average	*6.9*	*7.4*	*0.5*	*8.1*	*7.9*	*-0.2*	*744.1*	*395.6*	*-348.5*	*18.2*	*17.5*	*-0.7*	*79.4*	*3.9*	*-75.5*	*61.0*	*0.0*	*-61.0*
Median	*7.4*	*7.6*	*0.2*	*8.1*	*7.8*	*-0.3*	*624.7*	*280.8*	*-343.9*	*18.4*	*17.7*	*-0.7*	*30.2*	*1.7*	*-28.5*	*13.0*	*0.0*	*-13.0*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for statistical calculations.
J	Analyte detected. Reported value may not be accurate or precise.
DO	dissolved oxygen
mg/L	milligrams per liter
SU	standard units
NTU	nephelometric turbidity units
µS/cm	microSiemens per centimeter
TSS	total suspended solids
NS	Sample not collected. Cape Fear River exceeded the action level developed for FTC management on April 9, 2023 (see Section 2.3).

Table 6b
Water Quality Data - Seep B
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference[2]
3/14/2023	8.3	8.6	0.3	8.7	8.2	-0.5	139	123	-16	18	18	0	53.33	0.78	-52.55	25 J	<1.1	-25.0
3/29/2023	8.7	7.7	-1.0	8.0	7.7	-0.3	125	125	0	16	16	0	75.23	14.53	-60.70	49	2.8 J	-46.2
4/9/2023	9.0	9.2	0.2	7.5	7.5	0.0	236	165	-71	14	14	0	183.06	24.98	-158.08	NS	NS	NS
4/28/2023	7.0	7.3	0.3	7.2	7.2	0.0	126	138	12	20	19	-1	61.89	6.39	-55.50	38	1.6 J	-36.4
Average	*8.3*	*8.2*	*-0.1*	*7.8*	*7.6*	*-0.2*	*156.2*	*137.9*	*-18.3*	*16.9*	*16.8*	*-0.1*	*93.4*	*11.7*	*-81.7*	*37.3*	*2.2*	*-35.1*
Median	*8.5*	*8.1*	*-0.4*	*7.7*	*7.6*	*-0.1*	*132.3*	*131.5*	*-0.8*	*17.1*	*17.1*	*0.0*	*68.6*	*10.5*	*-58.1*	*38.0*	*1.6*	*-36.4*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for statistical calculations.
J	Analyte detected. Reported value may not be accurate or precise.
DO	dissolved oxygen
mg/L	milligrams per liter
SU	standard units
NTU	nephelometric turbidity units
µS/cm	microSiemens per centimeter
TSS	total suspended solids
NS	Sample not collected. Cape Fear River exceeded the action level developed for FTC management on April 9, 2023 (see Section 2.3).

Table 6c
Water Quality Data - Seep C
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference[2]
3/14/2023	8.8	7.5	-1.3	8.0	8.0	0.0	136	135	-1	18	18	0	242.34	93.31	-149.03	51 J	6 J	-45.0
3/29/2023	6.2	7.4	1.2	7.5	7.5	0.0	129	121	-8	17	17	0	701.37	211.32	-490.05	140	72	-68.0
4/9/2023	9.3	9.3	0.0	7.3	7.6	0.3	119	177	58	14	14	0	94.36	1.69	-92.67	NS	NS	NS
4/28/2023	7.3	6.9	-0.4	7.3	9.4	2.1	116	134	18	20	20	0	294.29	30.18	-264.11	96	6	-90.0
Average	*7.9*	*7.8*	*-0.1*	*7.5*	*8.1*	*0.6*	*124.9*	*141.7*	*16.8*	*16.8*	*16.9*	*0.1*	*333.1*	*84.1*	*-249.0*	*95.7*	*28.0*	*-67.7*
Median	*8.1*	*7.4*	*-0.7*	*7.4*	*7.8*	*0.4*	*123.8*	*134.4*	*10.6*	*17.1*	*17.2*	*0.1*	*268.3*	*61.7*	*-206.6*	*96.0*	*6.0*	*-90.0*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for statistical calculations.
J	Analyte detected. Reported value may not be accurate or precise.
DO	dissolved oxygen
mg/L	milligrams per liter
SU	standard units
NTU	nephelometric turbidity units
µS/cm	microSiemens per centimeter
TSS	total suspended solids
NS	Sample not collected. Cape Fear River exceeded the action level developed for FTC management on April 9, 2023 (see Section 2.3).

Table 6d
Water Quality Data - Seep D
Reporting Period 14 (Mar - Apr 2023)
Chemours Fayetteville Works
Fayetteville, North Carolina

Date	DO (mg/L)			pH (SU)			Specific Conductance (µS/cm)			Temperature (°C)			Turbidity (NTU)			TSS[1] (mg/L)		
	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference	Influent	Effluent	Difference[2]
3/14/2023	7.4	6.4	-1.0	7.5	7.7	0.2	229	218	-11	17	17	0	30.49	1.02	-29.47	2.8 J	<1.1	-2.8
3/29/2023	6.9	6.6	-0.3	6.3	6.2	-0.1	148	144	-4	17	17	0	94.80	1.96	-92.84	30	<1.1	-30.0
4/9/2023	9.3	9.2	-0.1	5.6	5.4	-0.2	249	195	-54	14	15	1	5.31	0.00	-5.31	NS	NS	NS
4/28/2023	7.4	6.9	-0.5	7.9	6.3	-1.6	110	112	2	20	19	-1	3.96	0.81	-3.15	4	<1.1	-4.0
Average	*7.7*	*7.3*	*-0.4*	*6.8*	*6.4*	*-0.4*	*183.9*	*167.5*	*-16.4*	*17.1*	*17.1*	*0.0*	*33.6*	*0.9*	*-32.7*	*12.3*	*0.0*	*-12.3*
Median	*7.4*	*6.7*	*-0.7*	*6.9*	*6.2*	*-0.7*	*188.5*	*169.7*	*-18.8*	*17.2*	*17.2*	*0.0*	*17.9*	*0.9*	*-17.0*	*4.0*	*0.0*	*-4.0*

Notes:

[1]	TSS was measured by laboratory method SM 2540 D from grab samples collected concurrent with the performance samples.
[2]	Non-detect influent and effluent TSS sample results were assigned a value of zero for statistical calculations.
J	Analyte detected. Reported value may not be accurate or precise.
DO	dissolved oxygen
mg/L	milligrams per liter
SU	standard units
NTU	nephelometric turbidity units
µS/cm	microSiemens per centimeter
TSS	total suspended solids
NS	Sample not collected. Cape Fear River exceeded the action level developed for FTC management on April 9, 2023 (see Section 2.3).

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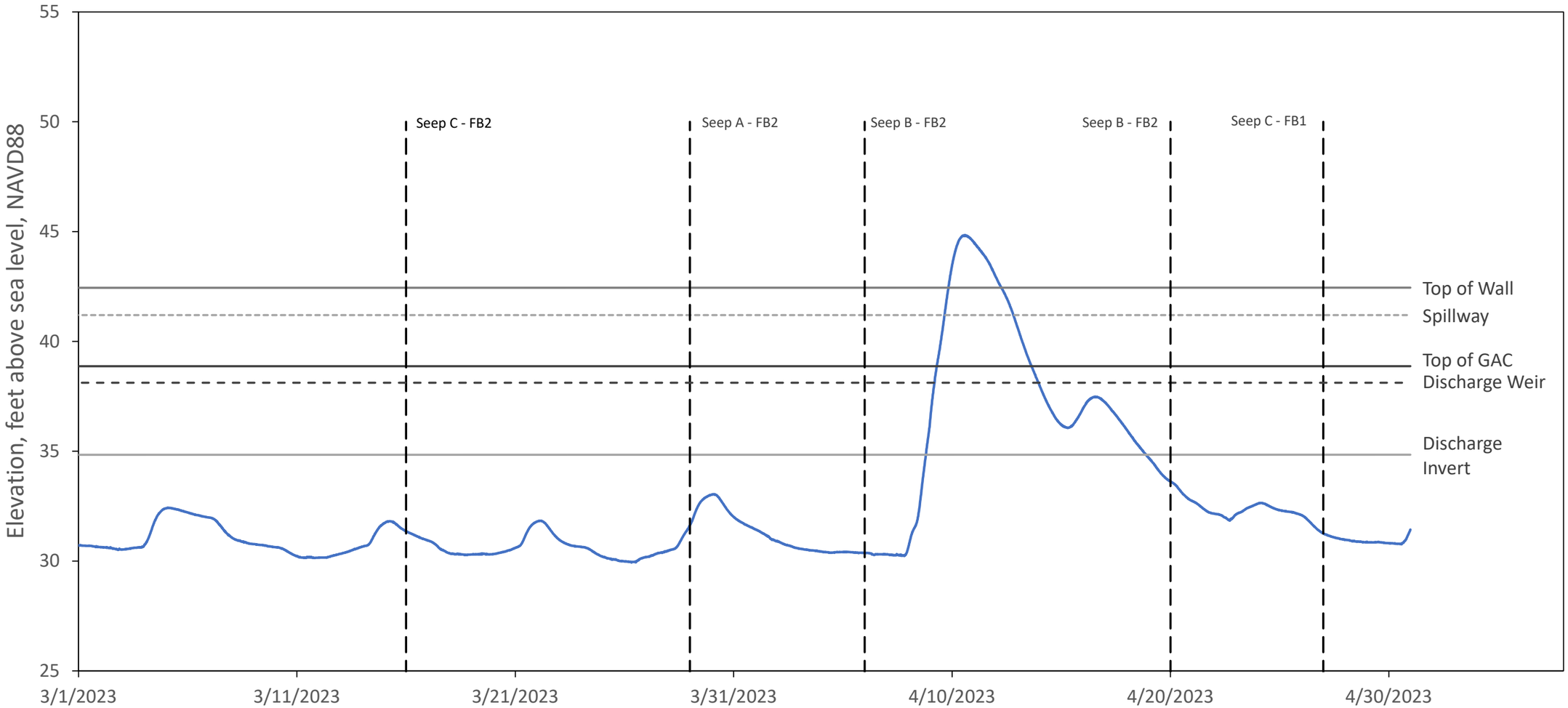
FIGURES

River Elevation During Flow Through Cell Operation (03/01/2023 through 04/30/2023)



Legend

- River
- GAC Changeout

Notes:

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

River Level & FTC As-Built Elevations

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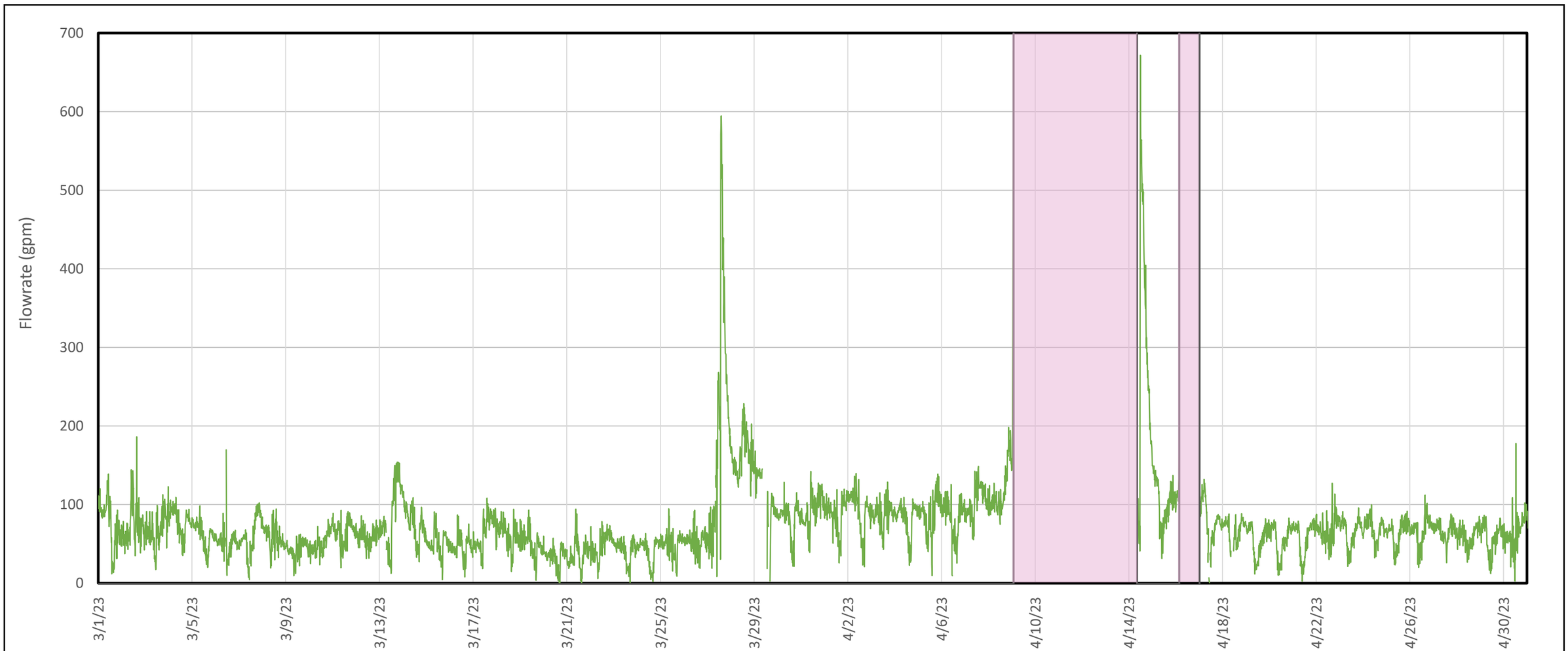
Figure 1



Legend

- Measured Discharge Flowrate
- Cape Fear River Above Discharge Weir Elevation

Flowrate Statistics (gpm)

	(03/01 - 04/30)	Since Startup
Median	67	83
95th percentile	140	247
Max	678	882

Notes:
gpm - gallons per minute
GAC - granular activated carbon
Figure 2a depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.
From April 9 to 14, 2023 and April 16 to 17, 2023, the Cape Fear River rose above the elevation of the discharge weir (W3), and head differentials throughout the flow-through cell were reduced and flow through the system was hindered (pink shading). See Section 4.5 for more details regarding impacts of river flooding.

Measured Discharge Flowrate (Mar - Apr 2023) - Seep A

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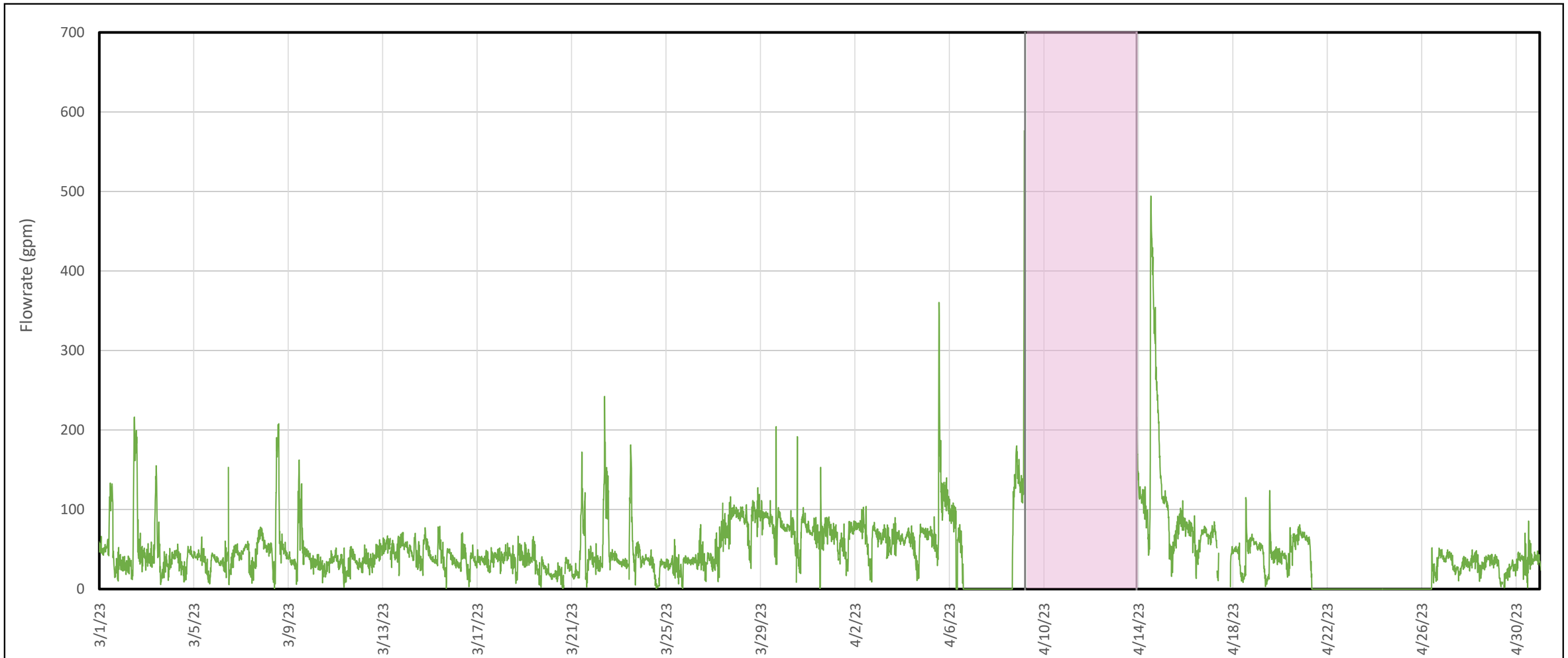
Figure 2a



Legend

- Measured Discharge Flowrate
- Cape Fear River Above Discharge Weir Elevation

Flowrate Statistics (gpm)

	(03/01 - 04/30)	Since Startup
Median	40	115
95th percentile	111	260
Max	576	1,153

Notes:
gpm - gallons per minute
GAC - granular activated carbon
Figure 2b depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.
From April 9 to 14, 2023, the Cape Fear River rose above the elevation of the discharge weir (W3), and head differentials throughout the flow-through cell were reduced and flow through the system was hindered (pink shading). See Section 4.5 for more details regarding impacts of river flooding.
In April, it was observed that flow into the impoundment was reduced and for some periods stopped completely. This is attributed to the installation and operation of the long-term groundwater remedy and barrier wall. See Section 4.1.1 for details.

Measured Discharge Flowrate (Mar - Apr 2023) - Seep B

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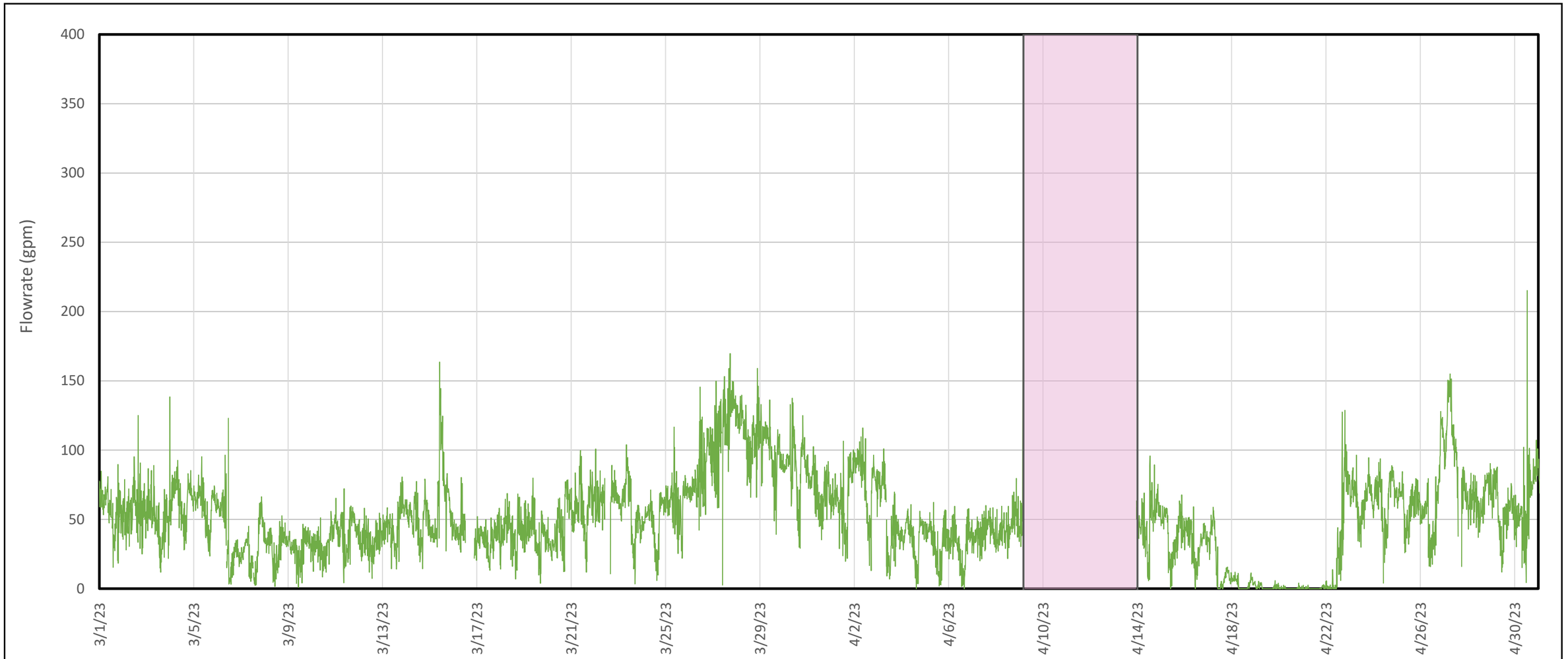
Figure 2b



Legend

- Measured Discharge Flowrate
- Cape Fear River Above Discharge Weir Elevation

Flowrate Statistics (gpm)

	(03/01 - 04/30)	Since Startup
Median	49	53
95th percentile	108	133
Max	282	752

Notes:
gpm - gallons per minute
GAC - granular activated carbon
Figure 2c depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.
From April 9 to 14, 2023, the Cape Fear River rose above the elevation of the discharge weir (W3), and head differentials throughout the flow-through cell were reduced and flow through the system was hindered (pink shading). See Section 4.5 for more details regarding impacts of river flooding.
In April, it was observed that flow into the impoundment was reduced and for some periods stopped completely. This is attributed to the installation and operation of the long-term groundwater remedy and barrier wall. See Section 4.1.1 for details.

Measured Discharge Flowrate (Mar - Apr 2023) - Seep C

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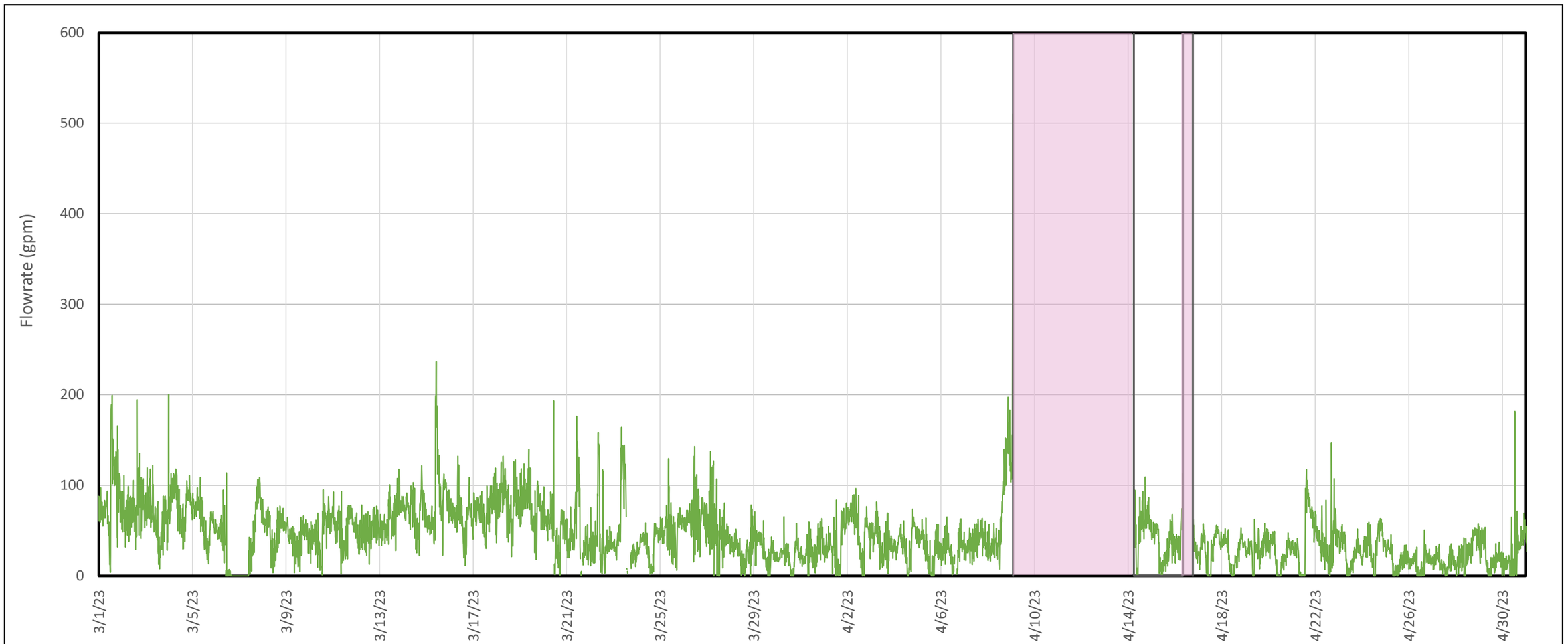
Figure 2c



Legend

- Measured Discharge Flowrate
- Cape Fear River Above Discharge Weir Elevation

Flowrate Statistics (gpm)

	(03/01 - 04/30)	Since Startup
Median	42	76
95th percentile	100	249
Max	511	836

Notes:
gpm - gallons per minute
GAC - granular activated carbon
Figure 2d depicts the measured discharge flowrate (solid green) of water processed through the filter beds calculated using the Effluent Stilling Basin transducer data.
From April 9 to 14, 2023 and on April 16, 2023, the Cape Fear River rose above the elevation of the discharge weir (W3), and head differentials throughout the flow-through cell were reduced and flow through the system was hindered (pink shading). See Section 4.5 for more details regarding impacts of river flooding.

Measured Discharge Flowrate (Mar - Apr 2023) - Seep D

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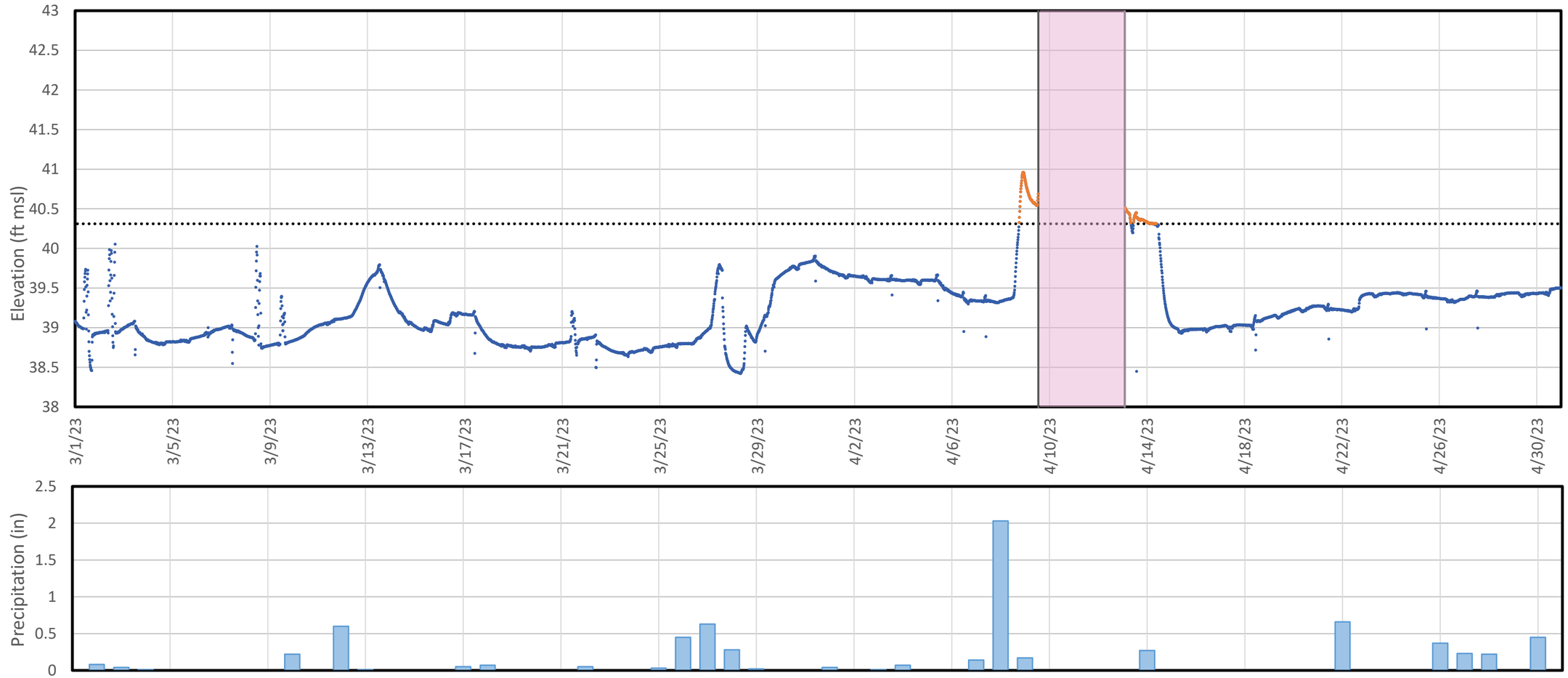
Figure 2d



Legend

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

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.

Between April 9 and April 13, 2023, the Cape Fear River rose above the elevation of the Bypass Spillway, causing the influent and effluent water elevations to be equal, and consequently ceasing any flow through the system (pink shading). See Section 4.5 for more details regarding impacts of river flooding.

Transient spikes and drops in influent water elevation coincide with the running of filter skids, which have been implemented at Seep A to improve pre-filtration of fine-grained sediment in influent water. The filter skids withdraw water from the impoundment and pump the filtered water directly into the influent stilling basin (ISB). In these brief periods, the transducer in the ISB does not reflect the actual impoundment elevation.

Influent Water Elevation and Bypass Flow (Mar - Apr 2023) - Seep A

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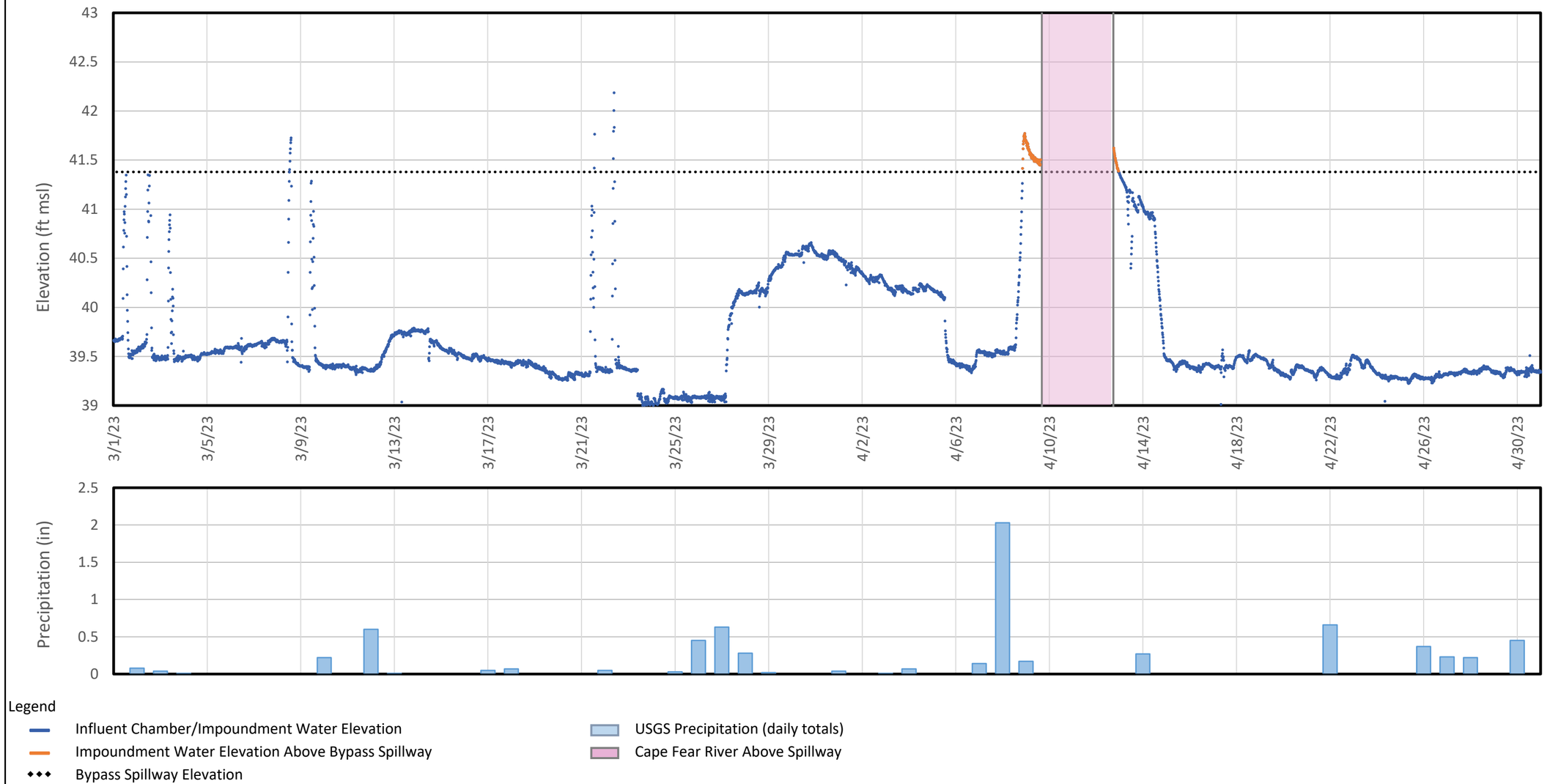
Figure 3a



Legend

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

Notes:

Figure 3b shows the influent transducer data that was collected during the reporting period (blue line). Instances of impoundment bypass flow are shown in orange.

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

Between April 9 and April 13, 2023, the Cape Fear River rose above the elevation of the Bypass Spillway, causing the influent and effluent water elevations to be equal, and consequently ceasing any flow through the system (pink shading). See Section 4.5 for more details regarding impacts of river flooding.

Transient spikes and drops in influent water elevation coincide with the running of filter skids, which have been implemented at Seep B to improve pre-filtration of fine-grained sediment in influent water. The filter skids withdraw water from the impoundment and pump the filtered water directly into the influent stilling basin (ISB). In these brief periods, the transducer in the ISB does not reflect the actual impoundment elevation.

On March 24, a crack at the inlet weir was repaired (See Section 2.5 for details). To address the crack and allow the sealant to cure, for several days the impoundment was drained directly into the lead filter bed to keep the area around the inlet weir dry.

Influent Water Elevation and Bypass Flow (Mar - Apr 2023) - Seep B

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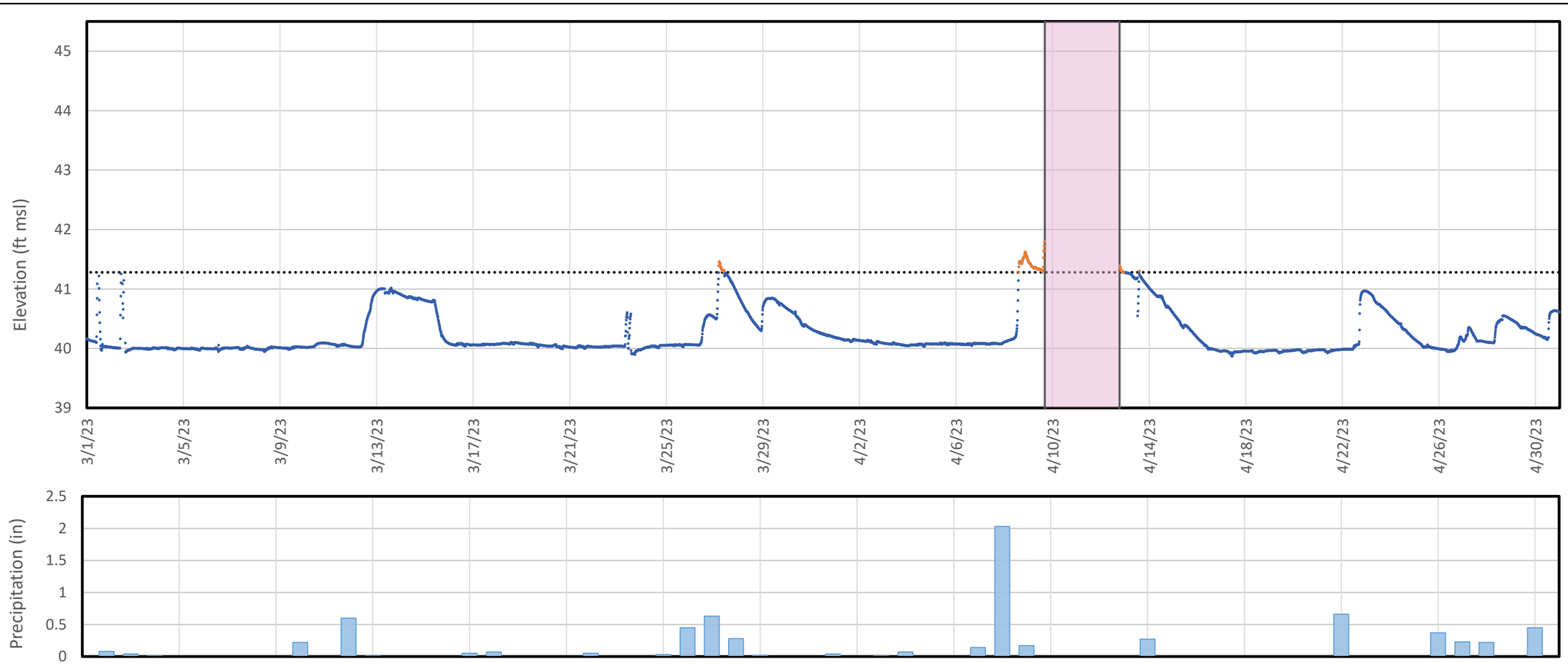
Figure 3b



Legend

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

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.

Between April 9 and April 13, 2023, the Cape Fear River rose above the elevation of the Bypass Spillway, causing the influent and effluent water elevations to be equal, and consequently ceasing any flow through the system (pink shading). See Section 4.5 for more details regarding impacts of river flooding.

Transient spikes and drops in influent water elevation coincide with the running of filter skids, which have been implemented at Seep C to improve pre-filtration of fine-grained sediment in influent water. The filter skids withdraw water from the impoundment and pump the filtered water directly into the influent stilling basin (ISB). In these brief periods, the transducer in the ISB does not reflect the actual impoundment elevation.

Influent Water Elevation and Bypass Flow (Mar - Apr 2023) - Seep C

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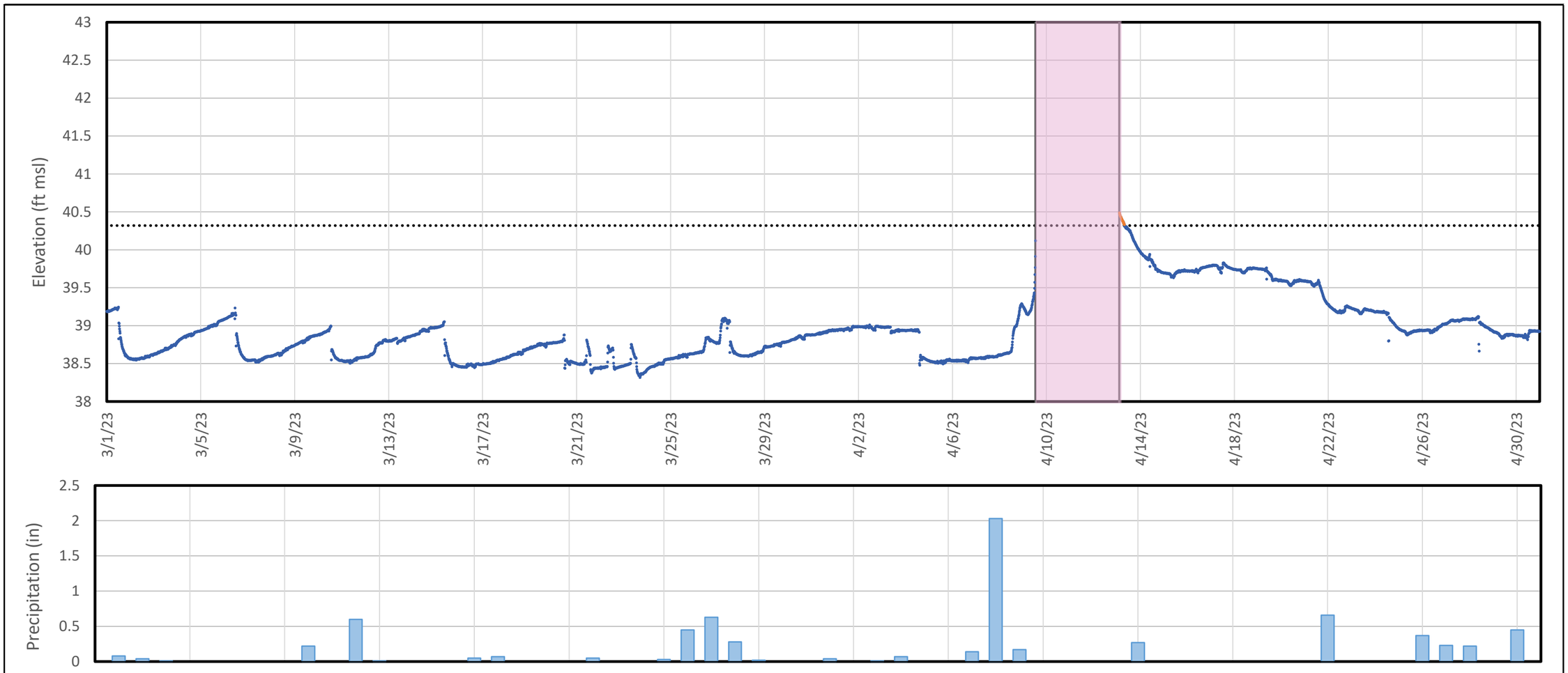
Figure 3c



Legend

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

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.

Between April 9 and April 13, 2023, the Cape Fear River rose above the elevation of the Bypass Spillway, causing the influent and effluent water elevations to be equal, and consequently ceasing any flow through the system (pink shading). See Section 4.5 for more details regarding impacts of river flooding.

Influent Water Elevation and Bypass Flow (Mar - Apr 2023) - Seep D

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Figure 3d

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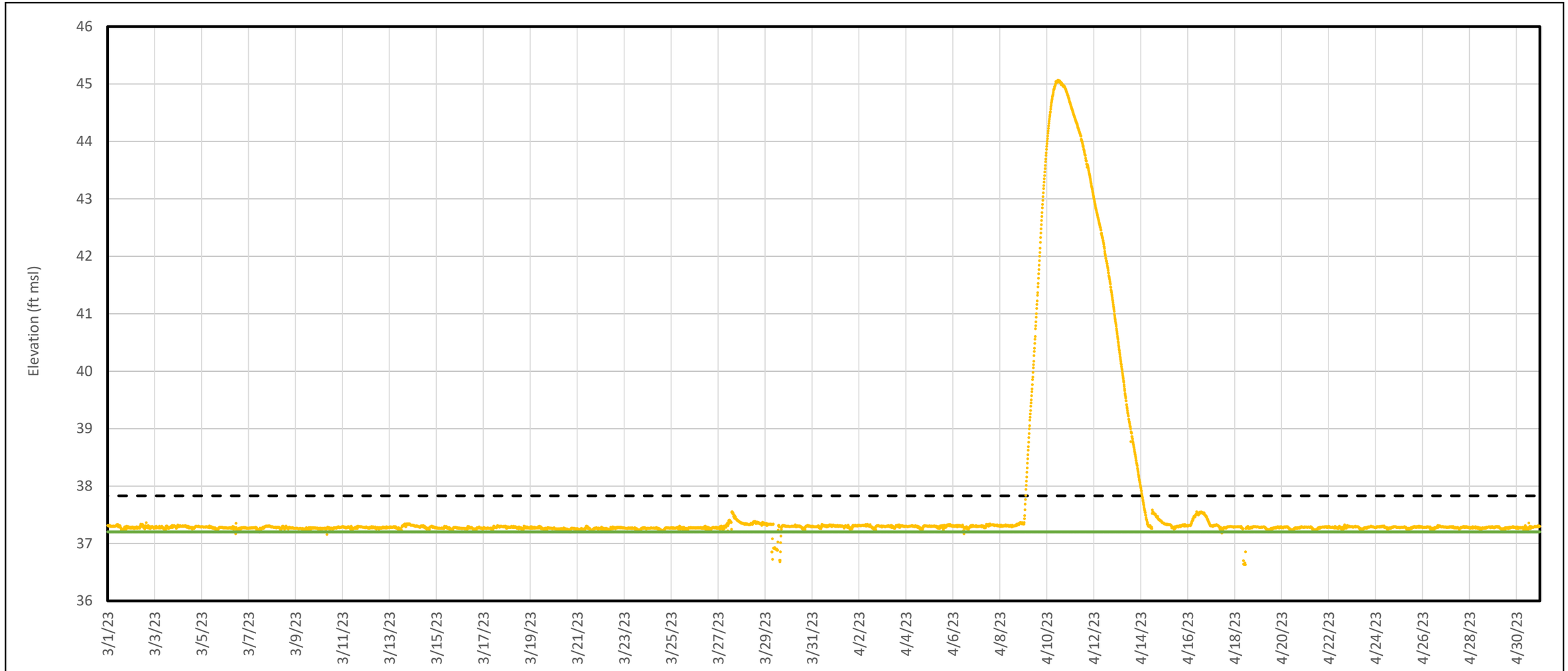
APPENDIX A
Transducer Data Reduction



Legend

- Discharge Basin Elevation
- Weir 3 Elevation
- GAC Elevation

Notes:

GAC - granular activated carbon

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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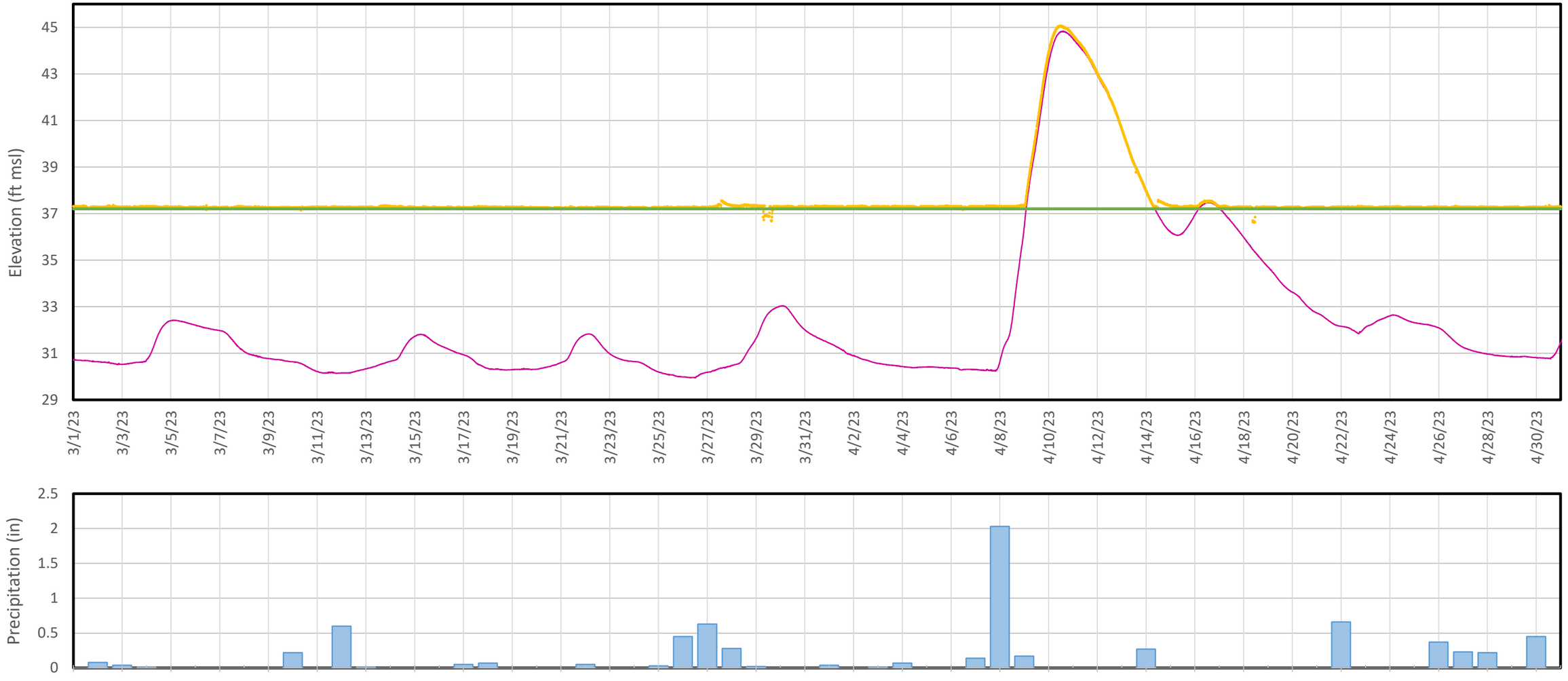
Figure A1-A



Legend

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

Notes:

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

Discharge Basin Water Elevation and External Forcings - Seep A

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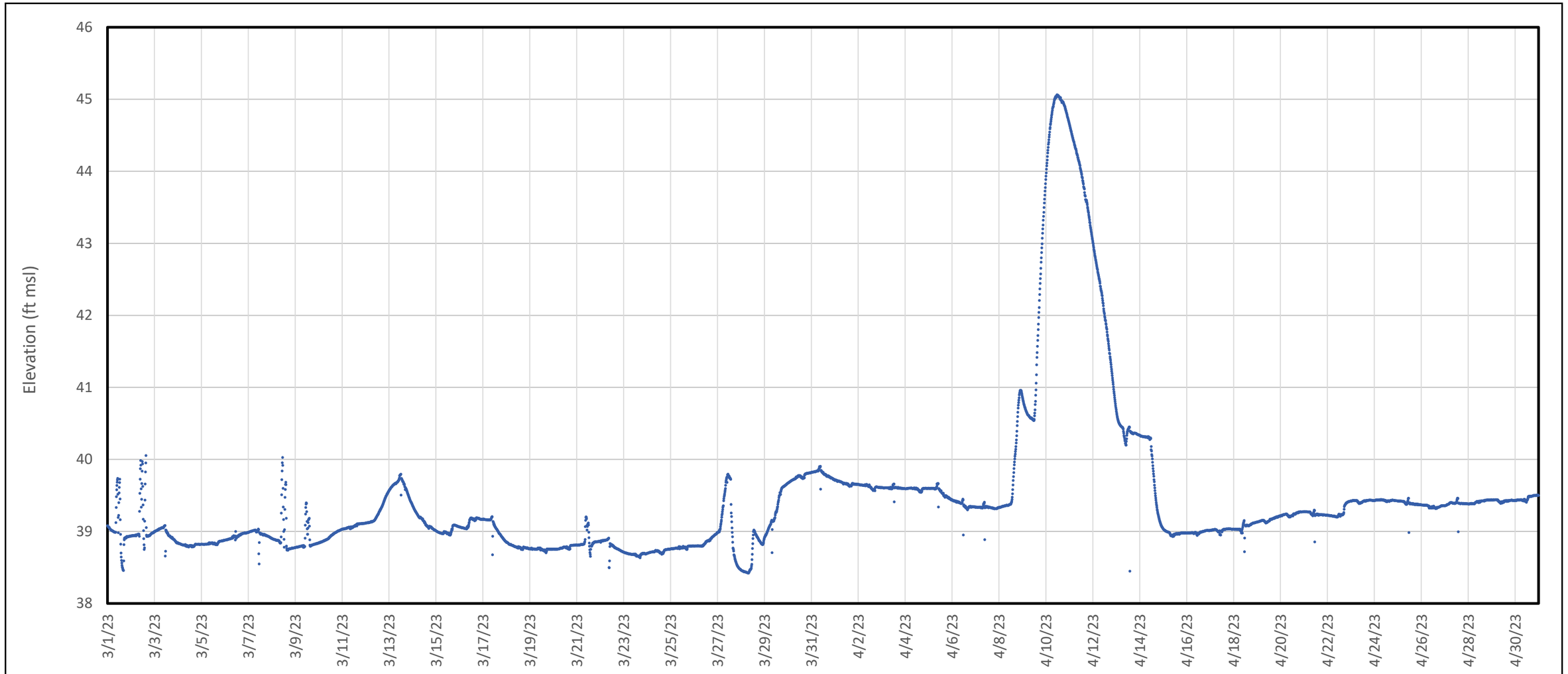
Figure A2-A



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

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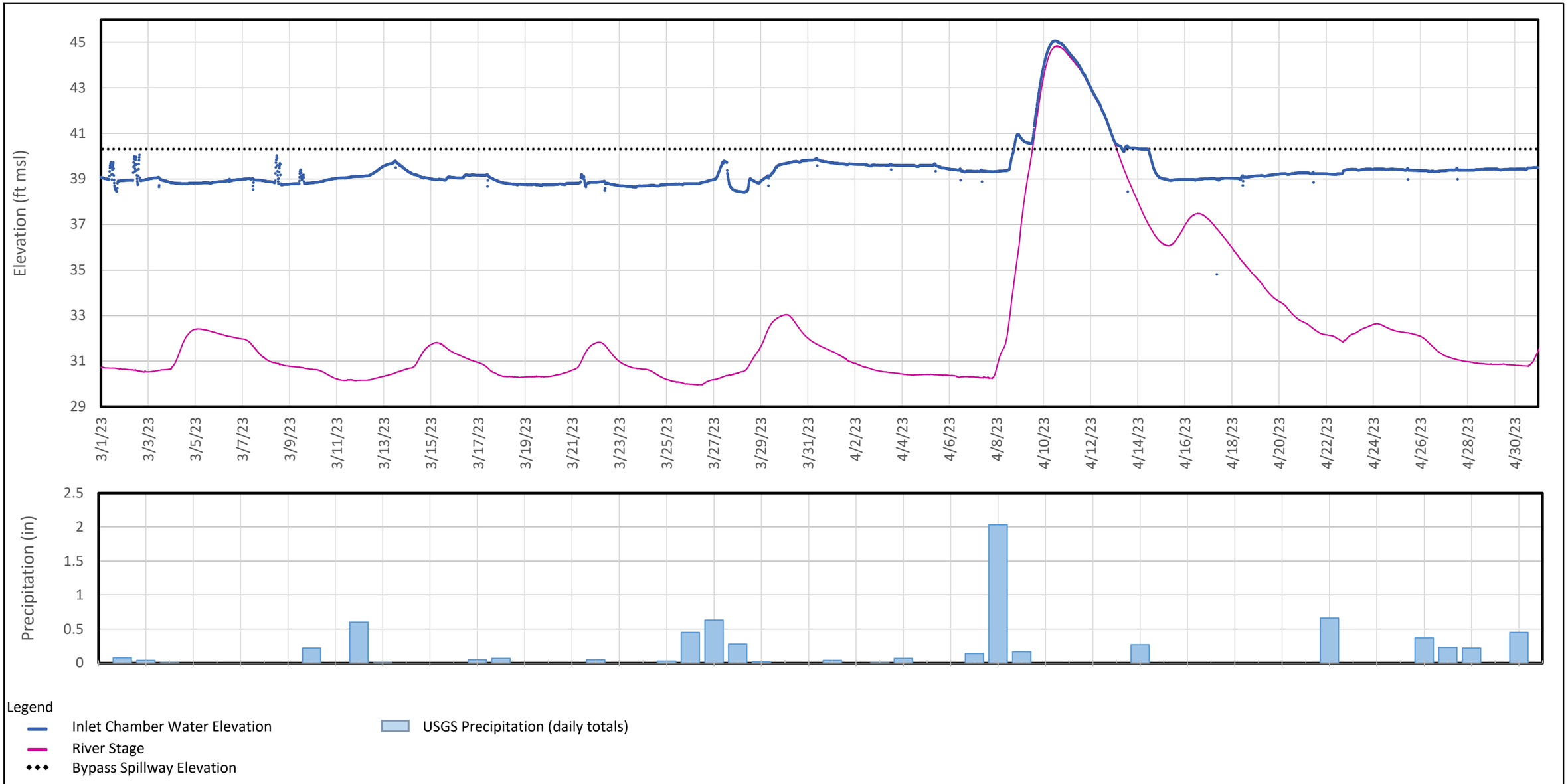
Figure A3-A



Legend

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

Notes:

As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-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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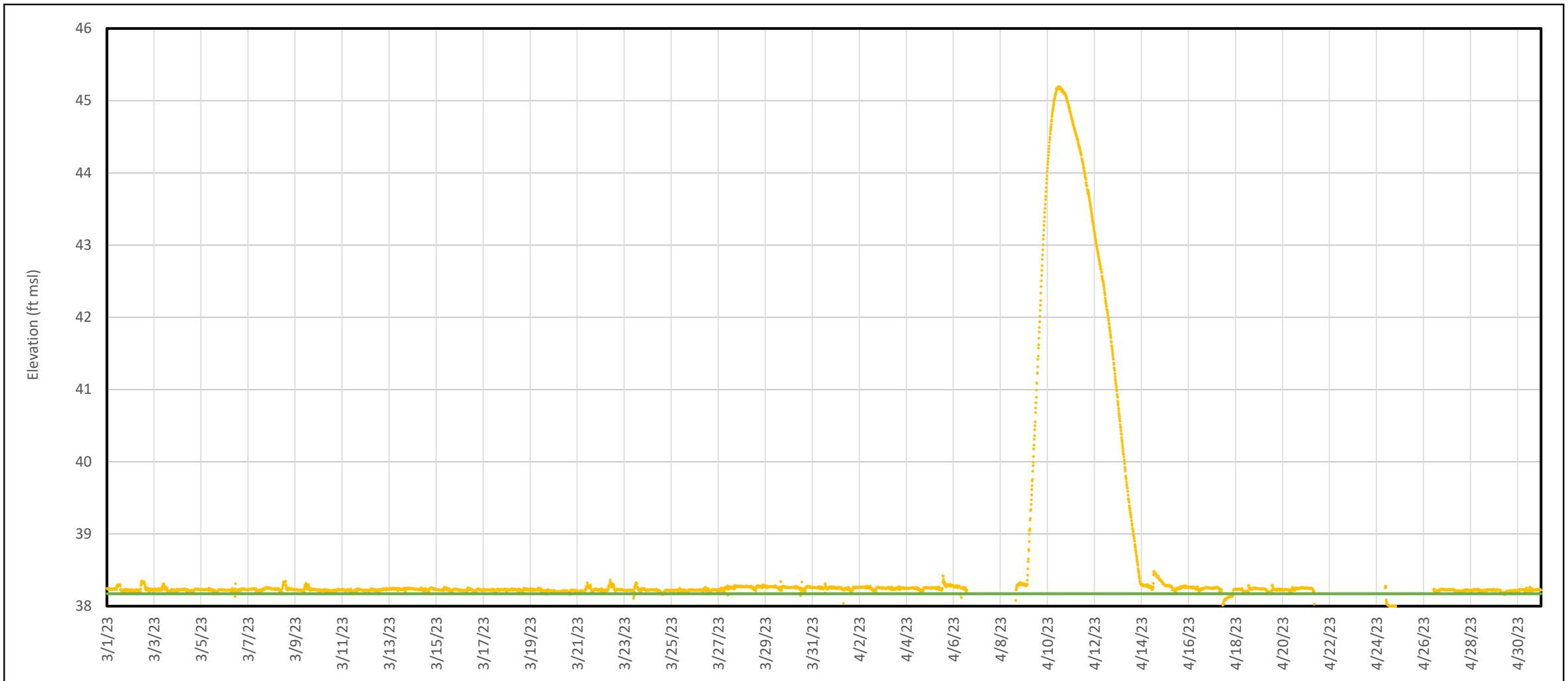
Figure A4-A



Legend

- Discharge Basin Elevation
- Weir 3 Elevation
- GAC Elevation

Notes:

GAC - granular activated carbon

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

Discharge Basin Water Elevation - Seep B

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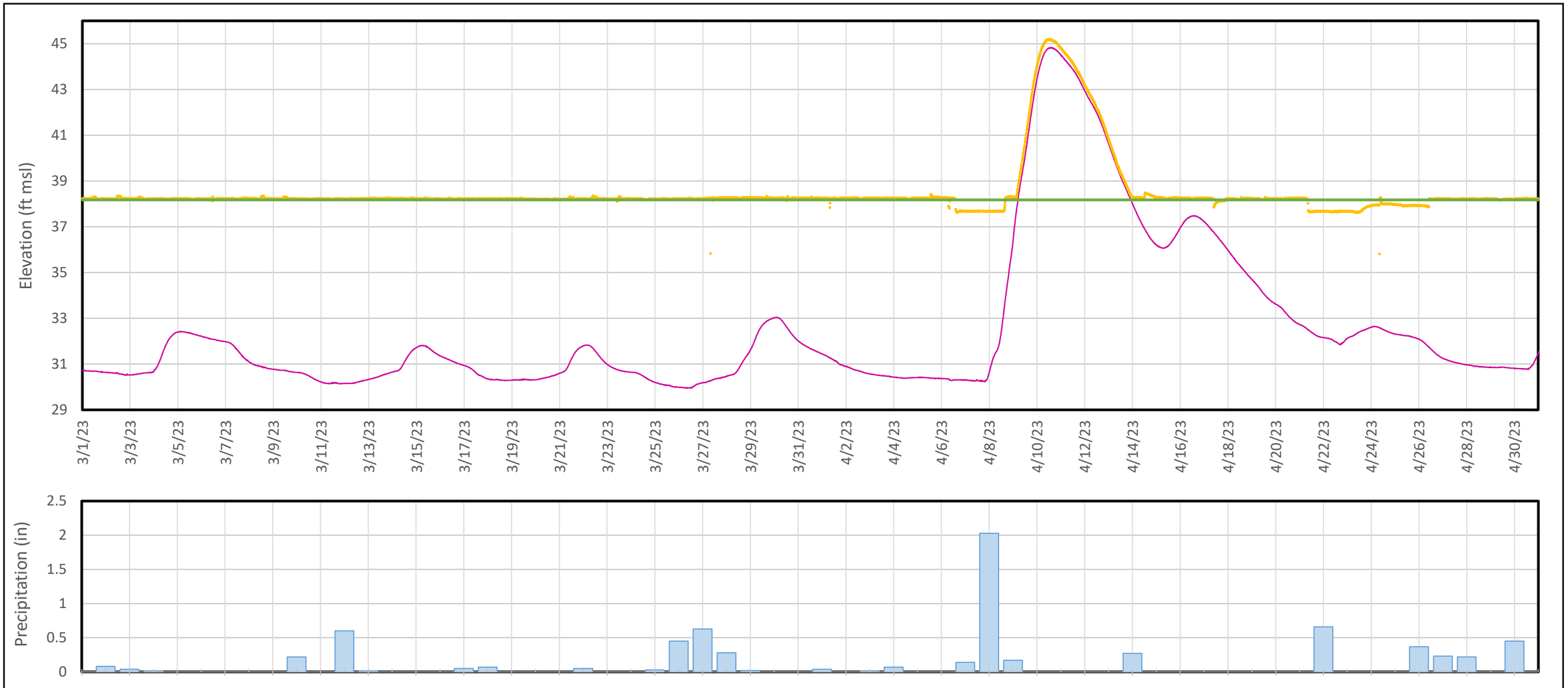
Figure A1-B



Legend

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

Notes:

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

Discharge Basin Water Elevation and External Forcings - Seep B

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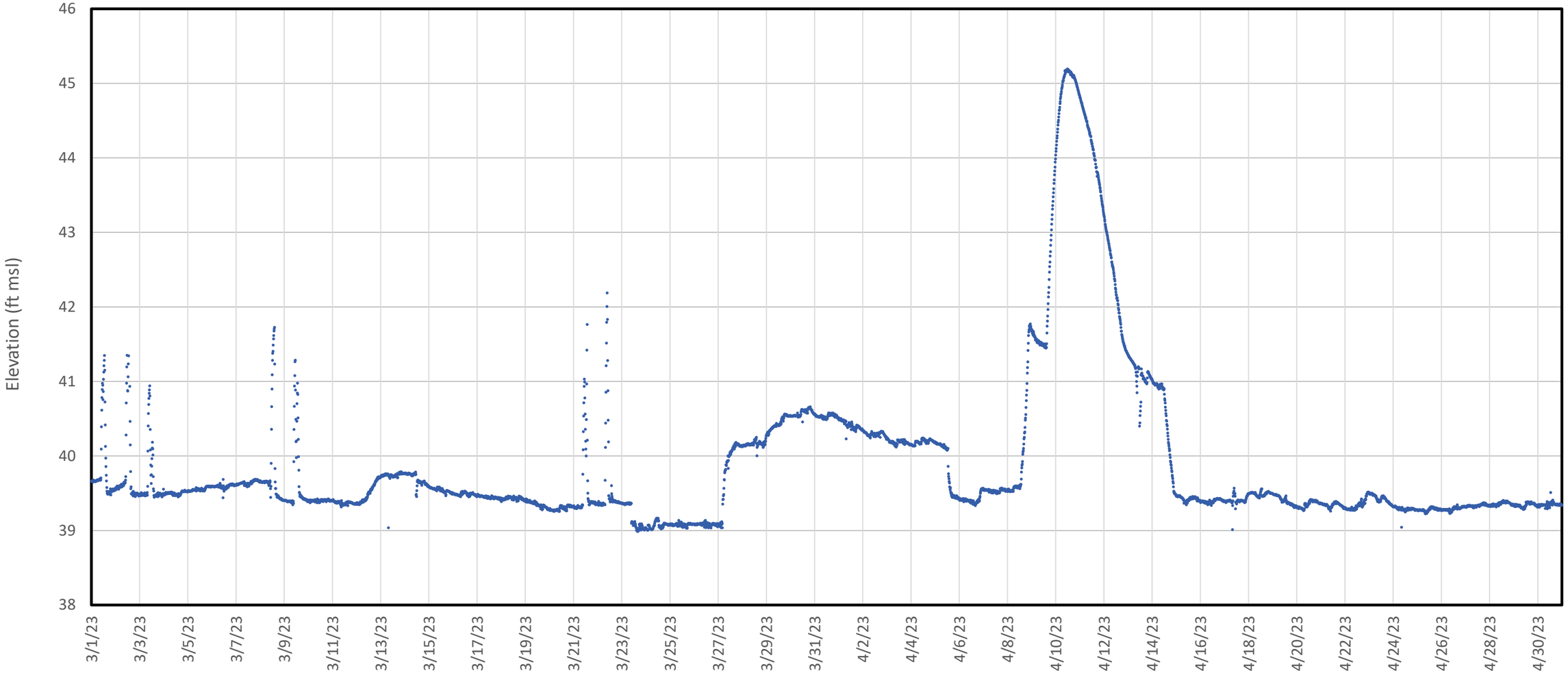
Figure A2-B



Legend

Influent Chamber/Impoundment Elevation

Notes:

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

Inlet Chamber Water Elevation - Seep B

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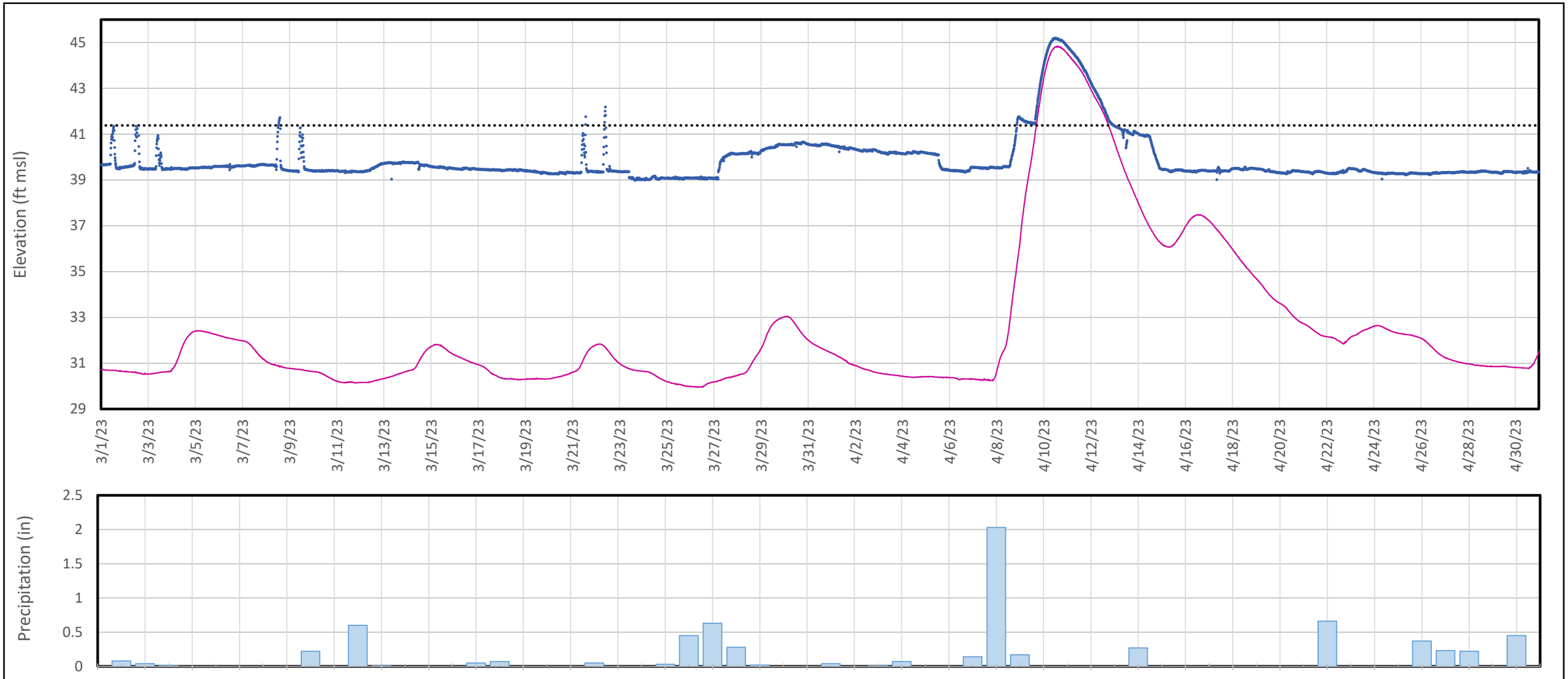
Figure A3-B



Legend

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

Notes:

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

Inlet Chamber Water Elevation and External Forcings - Seep B

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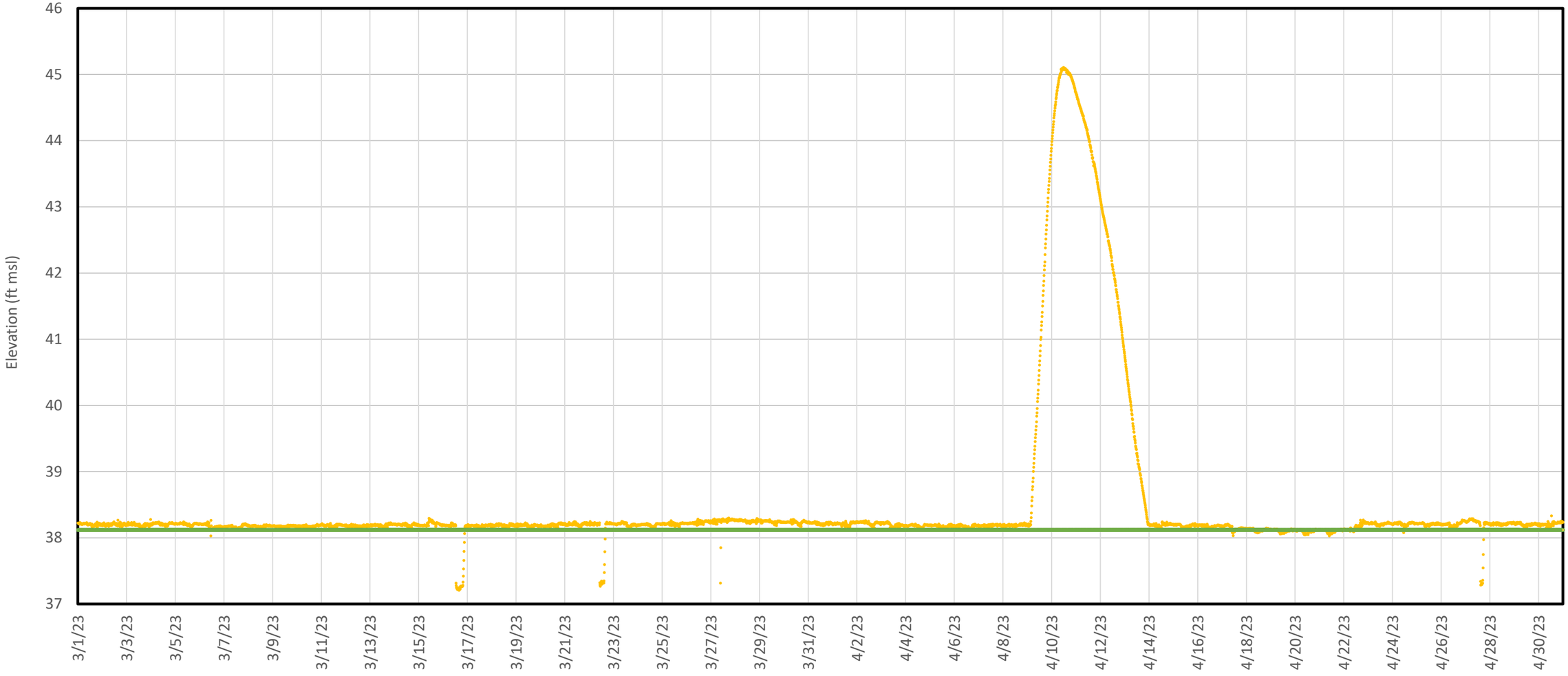
Figure A4-B



Legend

- Discharge Basin Elevation
- Weir 3 Elevation
- GAC Elevation

Notes:

GAC - granular activated carbon

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

Discharge Basin Water Elevation - Seep C

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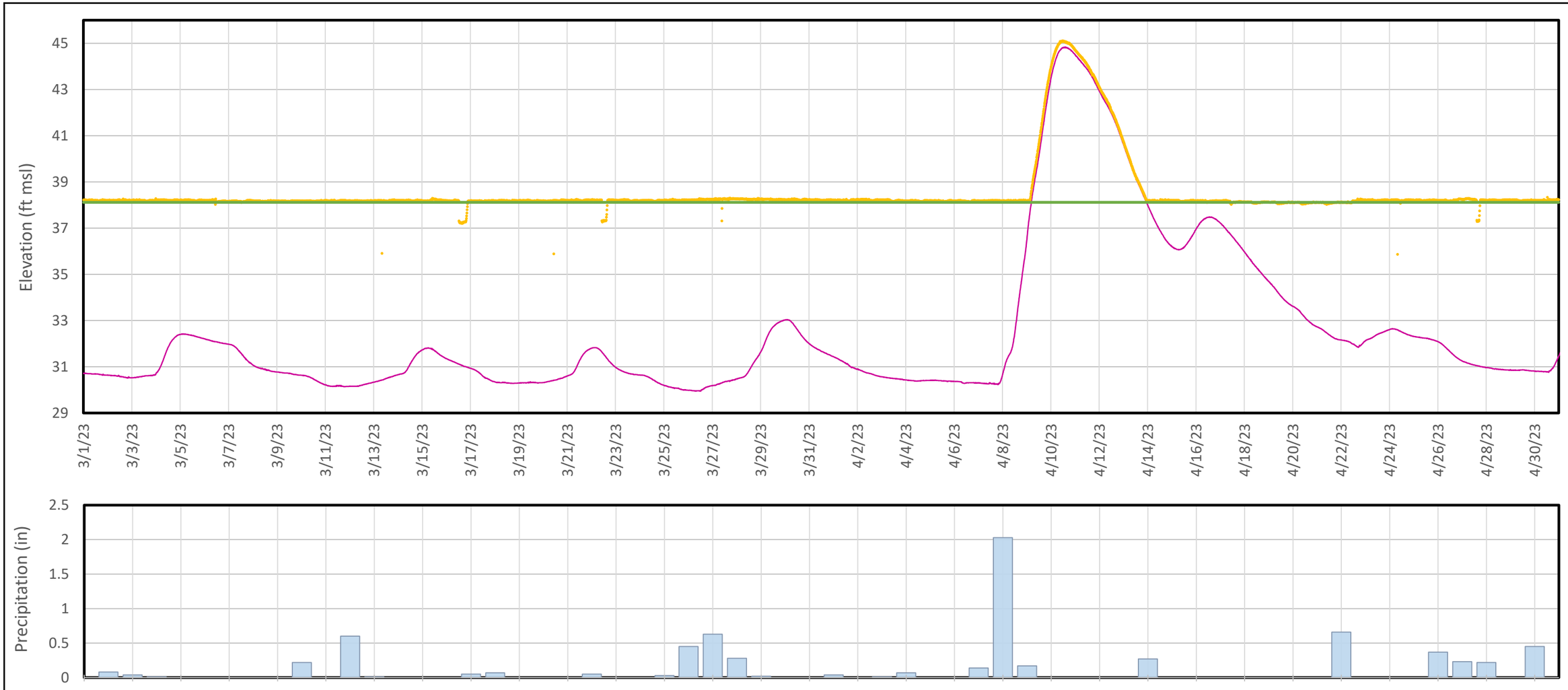
Figure A1-C



Legend

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

Notes:

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

Discharge Basin Water Elevation and External Forcings - Seep C

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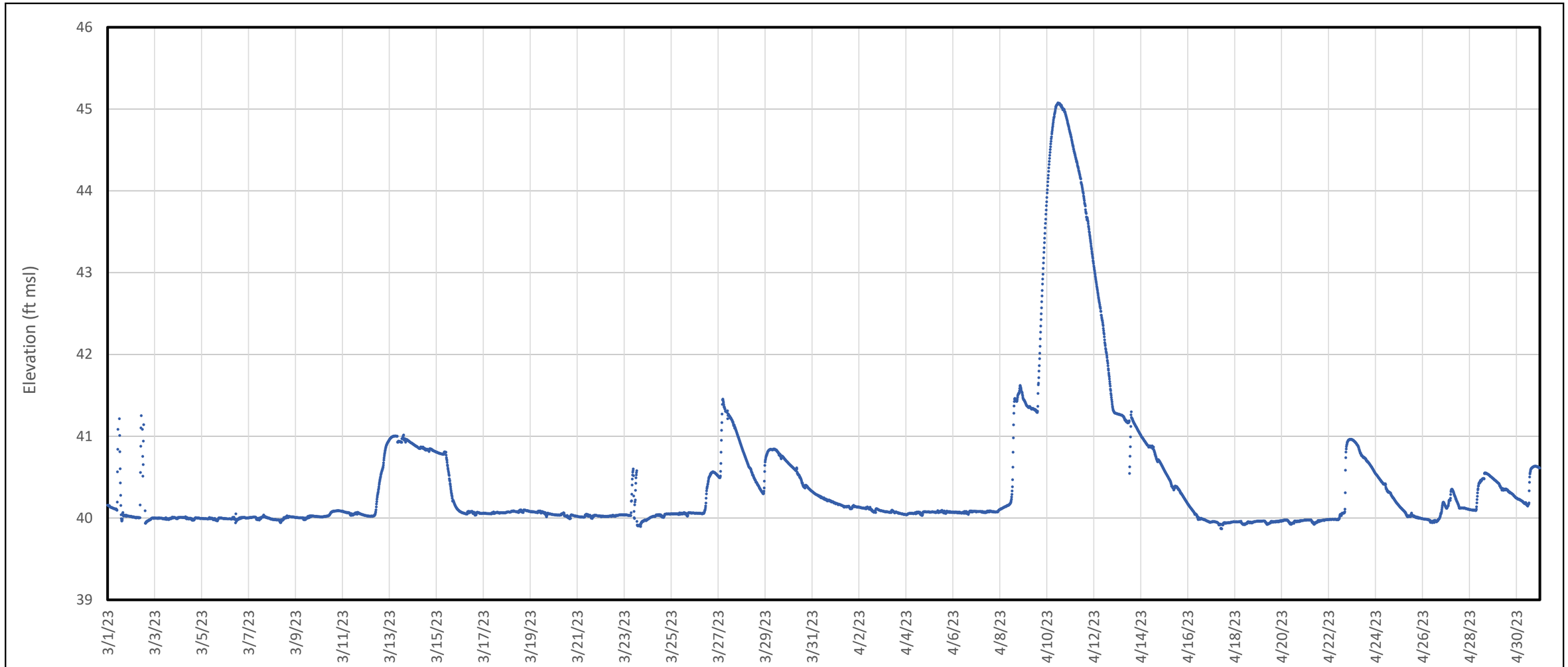
Figure A2-C



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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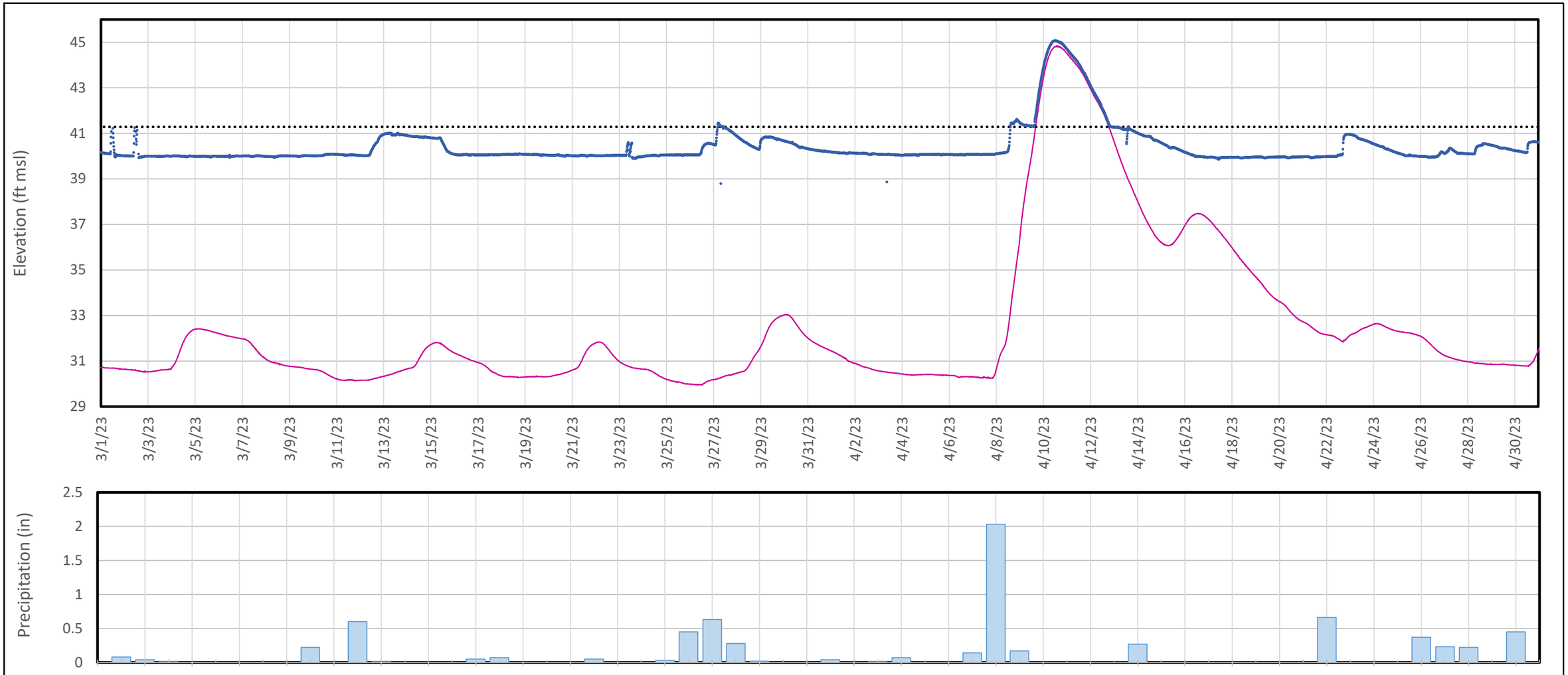
Figure A3-C



Legend

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

Notes:

As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-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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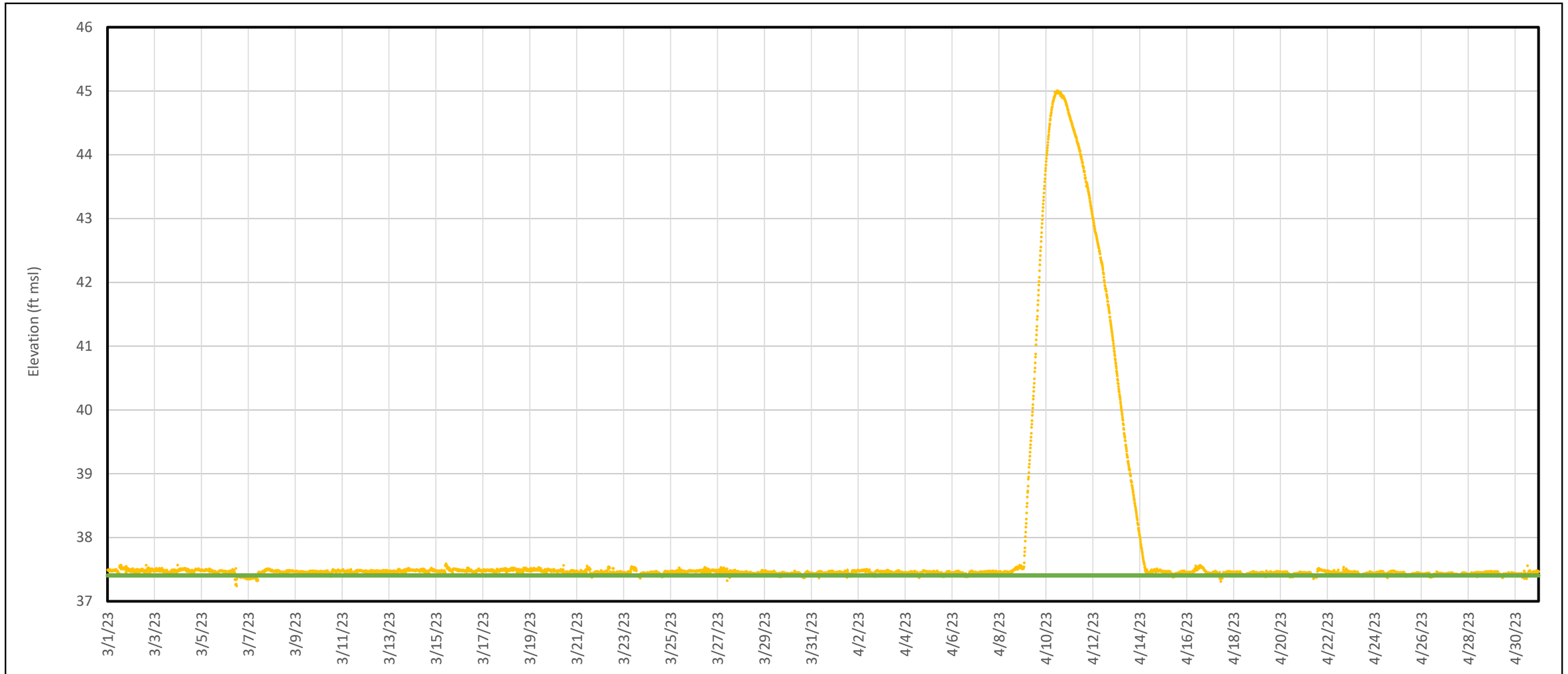
Figure A4-C



Legend

- Discharge Basin Elevation
- Weir 3 Elevation
- GAC Elevation

Notes:

GAC - granular activated carbon

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

Discharge Basin Water Elevation - Seep D

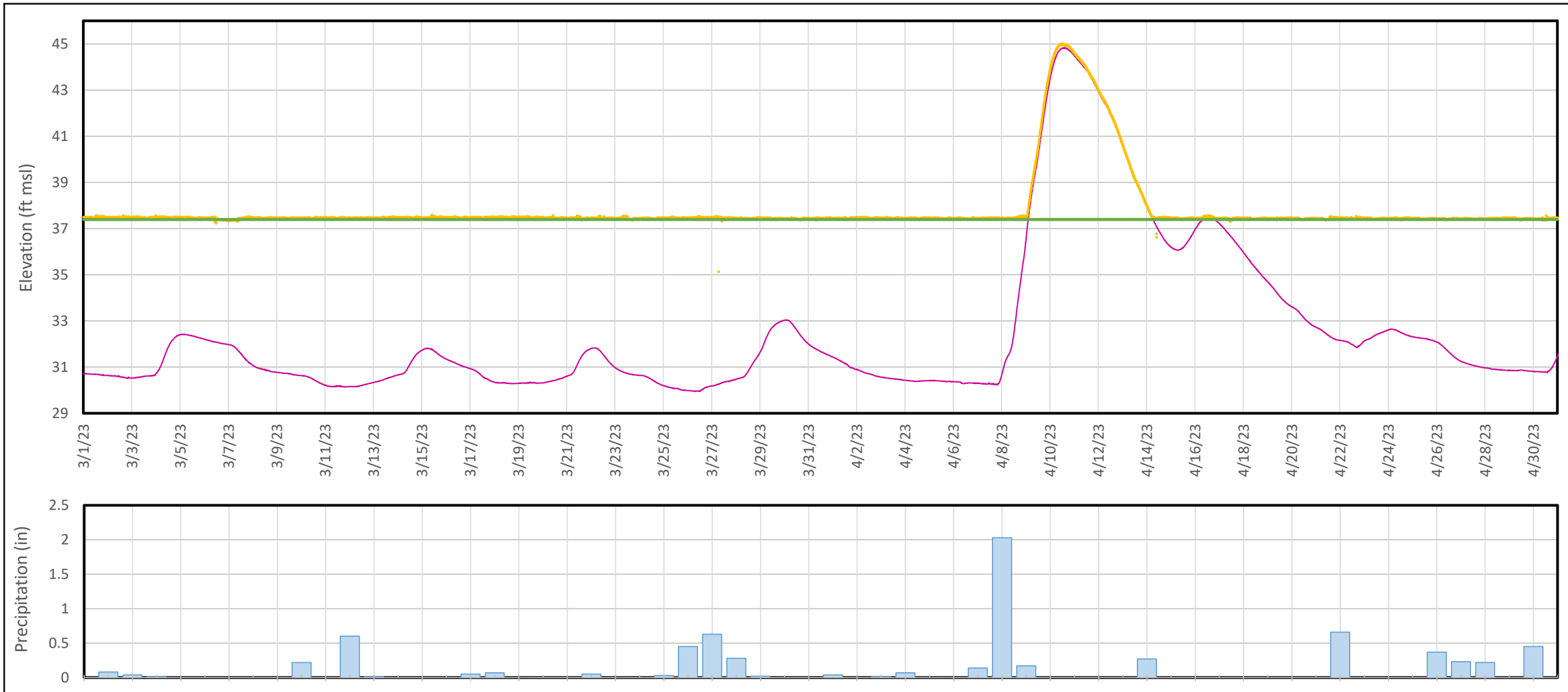
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | May 2023

Figure A1-D



Legend

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

Notes:

As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure A2-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

Geosyntec consultants

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

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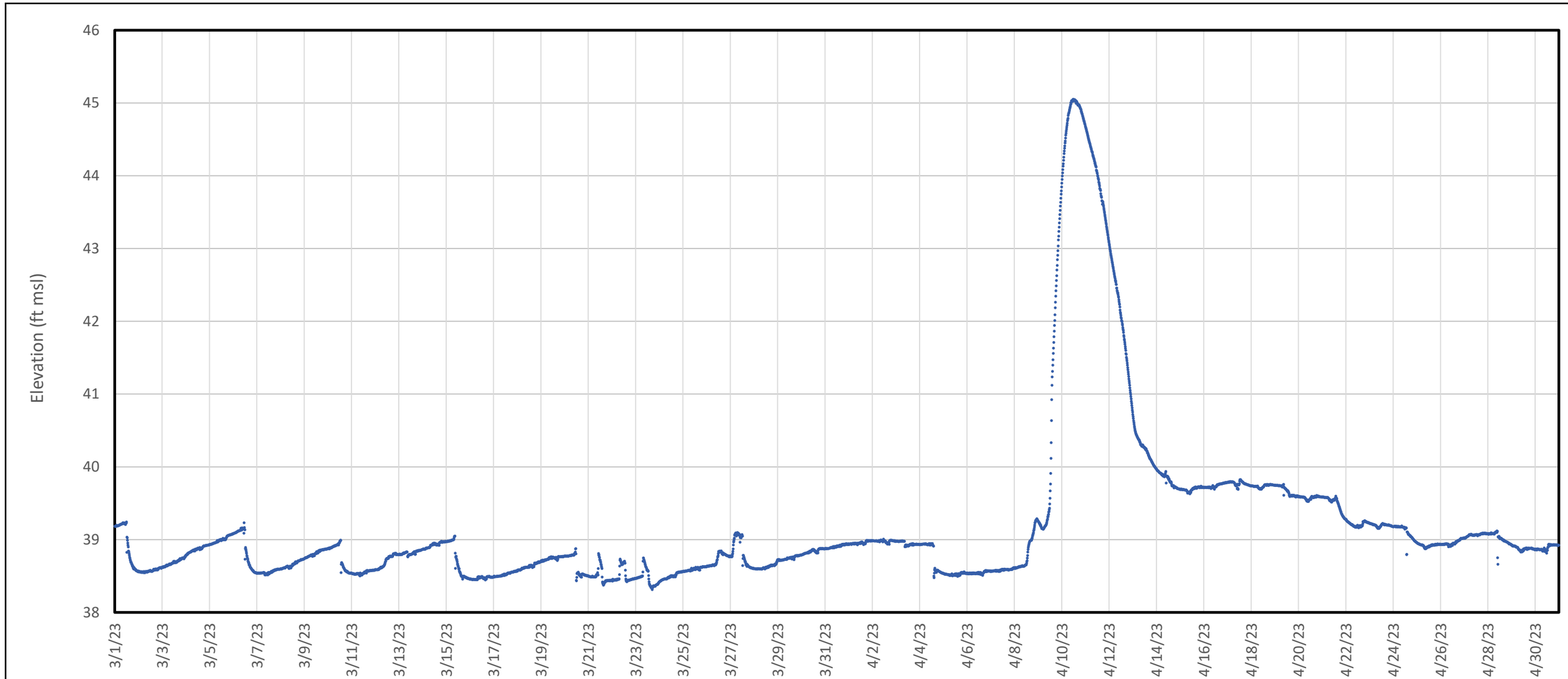
Figure A2-D



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

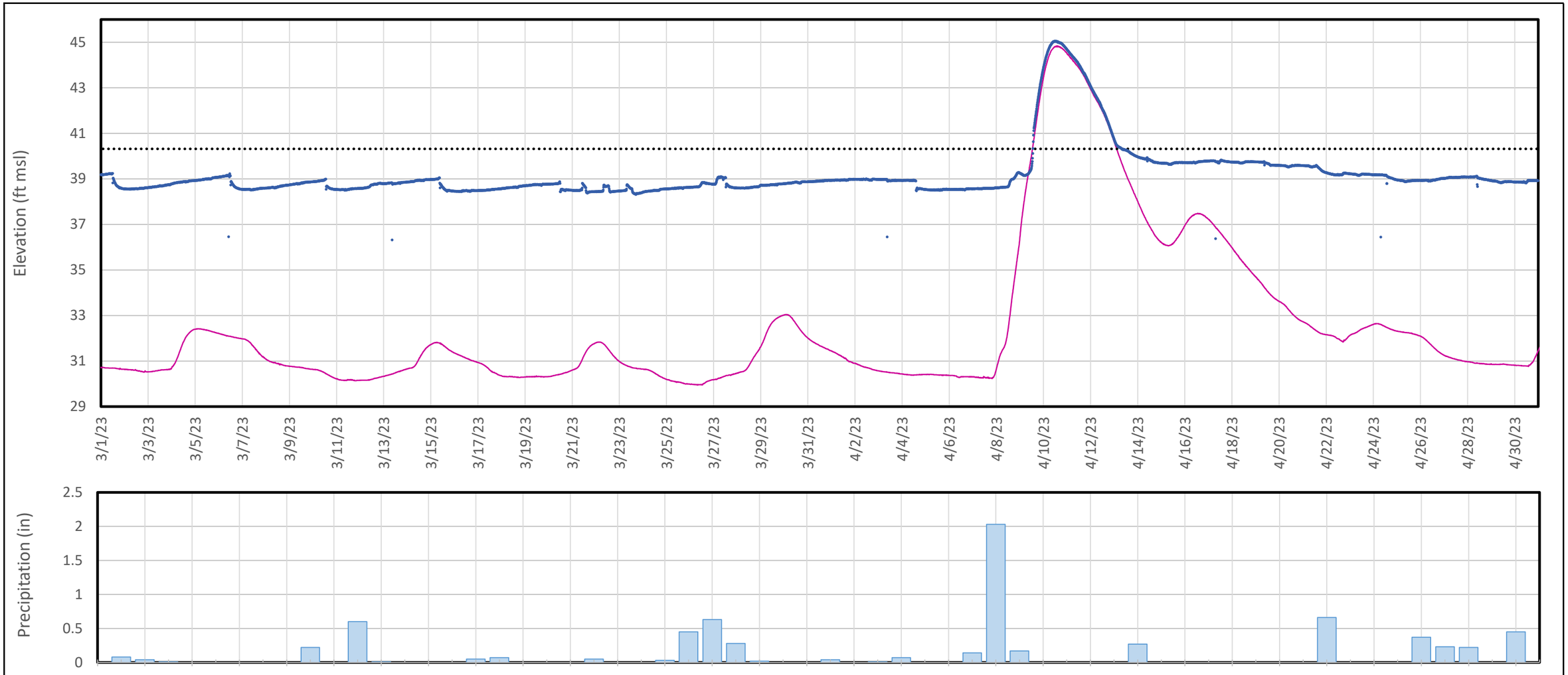
Chemours Fayetteville Works
Fayetteville, North Carolina

Geosyntec consultants

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

Raleigh, NC | May 2023

Figure A3-D



Legend

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

Notes:

As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure A4-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

Geosyntec consultants

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

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Figure A4-D

Geosyntec consultants

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

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 2023 (select lots)

Project Reviewer: Michael Aucoin

Sample Summary

Field Sample ID	Laboratory Sample ID	Sample Matrix	Filtered	Sample Date	Sample Time	Sample Purpose*
SEEP-A-INFLUENT-RAIN-24-031323	320-97845-1	Surface Water	N	03/13/2023	16:23	FS
SEEP-A-EFFLUENT-RAIN-24-031323	320-97845-2	Surface Water	N	03/13/2023	16:15	FS
SEEP-C-INFLUENT-RAIN-24-031323	320-97845-3	Surface Water	N	03/13/2023	16:28	FS
SEEP-C-EFFLUENT-RAIN-24-031423	320-97845-4	Surface Water	N	03/14/2023	08:50	FS
SEEP-D-INFLUENT-RAIN-24-031323	320-97845-5	Surface Water	N	03/13/2023	15:39	FS
SEEP-D-EFFLUENT-RAIN-24-031323	320-97845-6	Surface Water	N	03/13/2023	18:01	FS
SEEP-B-EFFLUENT-RAIN-24-031323	320-97845-7	Surface Water	N	03/13/2023	17:51	FS
SEEP-B-INFLUENT-RAIN-24-031323	320-97845-8	Surface Water	N	03/13/2023	17:21	FS
SEEP-A-INFLUENT-TSS-031523	320-97846-1	Surface Water	N	03/15/2023	14:00	FS
SEEP-B-INFLUENT-TSS-031523	320-97846-2	Surface Water	N	03/15/2023	12:45	FS
SEEP-C-INFLUENT-TSS-031523	320-97846-3	Surface Water	N	03/15/2023	15:05	FS
SEEP-D-INFLUENT-TSS-031523	320-97846-4	Surface Water	N	03/15/2023	14:35	FS
SEEP-A-EFFLUENT-TSS-031523	320-97846-5	Surface Water	N	03/15/2023	14:05	FS
SEEP-B-EFFLUENT-TSS-031523	320-97846-6	Surface Water	N	03/15/2023	12:40	FS
SEEP-C-EFFLUENT-TSS-031523	320-97846-7	Surface Water	N	03/15/2023	15:10	FS
SEEP-D-EFFLUENT-TSS-031523	320-97846-8	Surface Water	N	03/15/2023	14:40	FS
SEEP-A-INFLUENT-336-031423	320-97855-1	Surface Water	N	03/14/2023	18:00	FS
SEEP-A-EFFLUENT-336-031423	320-97855-2	Surface Water	N	03/14/2023	18:00	FS
SEEP-B-INFLUENT-336-031423	320-97855-3	Surface Water	N	03/14/2023	18:00	FS

SEEP-B-EFFLUENT-336-031423	320-97855-4	Surface Water	N	03/14/2023	18:00	FS
SEEP-C-INFLUENT-336-031423	320-97855-5	Surface Water	N	03/14/2023	18:00	FS
SEEP-C-EFFLUENT-336-031423	320-97855-6	Surface Water	N	03/14/2023	18:00	FS
SEEP-D-INFLUENT-336-031423	320-97855-7	Surface Water	N	03/14/2023	18:00	FS
SEEP-D-EFFLUENT-336-031423	320-97855-8	Surface Water	N	03/14/2023	18:00	FS
SEEP-A-INFLUENT-TSS-033023	320-98444-1	Surface Water	N	03/30/2023	08:55	FS
SEEP-B-INFLUENT-TSS-033023	320-98444-2	Surface Water	N	03/30/2023	09:35	FS
SEEP-C-INFLUENT-TSS-033023	320-98444-3	Surface Water	N	03/30/2023	10:00	FS
SEEP-D-INFLUENT-TSS-033023	320-98444-4	Surface Water	N	03/30/2023	10:20	FS
SEEP-A-EFFLUENT-TSS-033023	320-98444-5	Surface Water	N	03/30/2023	09:00	FS
SEEP-B-EFFLUENT-TSS-033023	320-98444-6	Surface Water	N	03/30/2023	09:40	FS
SEEP-C-EFFLUENT-TSS-033023	320-98444-7	Surface Water	N	03/30/2023	10:05	FS
SEEP-D-EFFLUENT-TSS-033023	320-98444-8	Surface Water	N	03/30/2023	10:25	FS
SEEP-A-INFLUENT-336-032923	320-98445-1	Surface Water	N	03/29/2023	12:00	FS
SEEP-C-EFFLUENT-336-032923	320-98445-10	Surface Water	N	03/29/2023	12:00	FS
SEEP-D-EFFLUENT-336-032923	320-98445-11	Surface Water	N	03/29/2023	12:00	FS
SEEP-B-INFLUENT-336-032923	320-98445-2	Surface Water	N	03/29/2023	12:00	FS
SEEP-C-INFLUENT-336-032923	320-98445-3	Surface Water	N	03/29/2023	12:00	FS
SEEP-D-INFLUENT-336-032923	320-98445-4	Surface Water	N	03/29/2023	12:00	FS
SEEP-EB-032923	320-98445-5	Blank Water	N	03/30/2023	08:00	EB
SEEP-FB-032923	320-98445-6	Blank Water	N	03/30/2023	08:05	FB

SEEP-A-EFFLUENT-336-032923	320-98445-7	Surface Water	N	03/29/2023	12:00	FS
SEEP-A-EFFLUENT-336-032923-D	320-98445-8	Surface Water	N	03/29/2023	12:00	DUP
SEEP-B-EFFLUENT-336-032923	320-98445-9	Surface Water	N	03/29/2023	12:00	FS
SEEP-A-INFLUENT-204-040923	320-98819-1	Surface Water	N	04/09/2023	06:00	FS
SEEP-A-EFFLUENT-204-040923	320-98819-2	Surface Water	N	04/09/2023	06:00	FS
SEEP-B-INFLUENT-204-040923	320-98819-3	Surface Water	N	04/09/2023	06:00	FS
SEEP-B-EFFLUENT-204-040923	320-98819-4	Surface Water	N	04/09/2023	06:00	FS
SEEP-C-INFLUENT-204-040923	320-98819-5	Surface Water	N	04/09/2023	06:00	FS
SEEP-C-EFFLUENT-204-040923	320-98819-6	Surface Water	N	04/09/2023	06:00	FS
SEEP-D-INFLUENT-204-040923	320-98819-7	Surface Water	N	04/09/2023	06:00	FS
SEEP-D-EFFLUENT-204-040923	320-98819-8	Surface Water	N	04/09/2023	06:00	FS
SEEP-A-INFLUENT-RAIN-19-040923	320-98841-1	Surface Water	N	04/09/2023	09:28	FS
SEEP-A-EFFLUENT-RAIN-19-040923	320-98841-2	Surface Water	N	04/09/2023	09:27	FS
SEEP-C-INFLUENT-RAIN-20-040923	320-98841-3	Surface Water	N	04/09/2023	08:38	FS
SEEP-C-EFFLUENT-RAIN-20-040923	320-98841-4	Surface Water	N	04/09/2023	08:36	FS
SEEP-D-INFLUENT-RAIN-21-040923	320-98841-5	Surface Water	N	04/09/2023	09:54	FS
SEEP-D-EFFLUENT-RAIN-21-040923	320-98841-6	Surface Water	N	04/09/2023	09:49	FS
SEEP-B-EFFLUENT-RAIN-20-040923	320-98841-7	Surface Water	N	04/09/2023	08:42	FS
SEEP-B-INFLUENT-RAIN-20-040923	320-98841-8	Surface Water	N	04/09/2023	08:33	FS
SEEP-A-INFLUENT-318-042823	320-99693-1	Surface Water	N	04/28/2023	06:00	FS
SEEP-EB-042823	320-99693-10	Blank Water	N	04/28/2023	11:30	EB

SEEP-FB-042823	320-99693-11	Blank Water	N	04/28/2023	11:35	FB
SEEP-A-EFFLUENT-336-042823	320-99693-2	Surface Water	N	04/28/2023	06:00	FS
SEEP-B-INFLUENT-336-042823-D	320-99693-3	Surface Water	N	04/28/2023	06:00	DUP
SEEP-B-INFLUENT-336-042823	320-99693-4	Surface Water	N	04/28/2023	06:00	FS
SEEP-B-EFFLUENT-336-042823	320-99693-5	Surface Water	N	04/28/2023	06:00	FS
SEEP-C-INFLUENT-336-042823	320-99693-6	Surface Water	N	04/28/2023	06:00	FS
SEEP-C-EFFLUENT-318-042823	320-99693-7	Surface Water	N	04/28/2023	06:00	FS
SEEP-D-INFLUENT-336-042823	320-99693-8	Surface Water	N	04/28/2023	06:00	FS
SEEP-D-EFFLUENT-336-042823	320-99693-9	Surface Water	N	04/28/2023	06:00	FS
SEEP-A-INFLUENT-TSS-042823	320-99695-1	Surface Water	N	04/28/2023	09:40	FS
SEEP-B-INFLUENT-TSS-042823	320-99695-2	Surface Water	N	04/28/2023	10:10	FS
SEEP-C-INFLUENT-TSS-042823	320-99695-3	Surface Water	N	04/28/2023	11:00	FS
SEEP-D-INFLUENT-TSS-042823	320-99695-4	Surface Water	N	04/28/2023	14:35	FS
SEEP-A-EFFLUENT-TSS-042823	320-99695-5	Surface Water	N	04/28/2023	10:35	FS
SEEP-B-EFFLUENT-TSS-042823	320-99695-6	Surface Water	N	04/28/2023	10:15	FS
SEEP-C-EFFLUENT-TSS-042823	320-99695-7	Surface Water	N	04/28/2023	11:05	FS
SEEP-D-EFFLUENT-TSS-042823	320-99695-8	Surface Water	N	04/28/2023	10:40	FS

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

Analytical Protocol

Laboratory[1]	Method	Parameters
Eurofins Environ Testing Northern Cali	Cl. Spec. Table 3 Compound SOP	Per- and Polyfluorinated Alkyl Substances (PFAS)[2]
Eurofins Environ Testing Northern Cali	SM 2540 D	Total Suspended Solids

[1] This laboratory name changed to Eurofins Environmental Testing Northern California (former TestAmerica Sacramento), effective January 1, 2022.

[2] A list of 20 compounds including HFPO-DA.

ADQM Data Review Checklist

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

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

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

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

Data Verification Module (DVM)

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

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

There are two qualifier fields in EIM:

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

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

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

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

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

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

DVM Narrative Report

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-TSS-031523	03/15/2023	320-97846-5	Total Suspended Solids	1.1	MG/L	MDL	1.1	4.0	UJ	SM 2540 D		
SEEP-D-EFFLUENT-TSS-031523	03/15/2023	320-97846-8	Total Suspended Solids	1.1	MG/L	MDL	1.1	4.0	UJ	SM 2540 D		
SEEP-B-EFFLUENT-TSS-031523	03/15/2023	320-97846-6	Total Suspended Solids	1.1	MG/L	MDL	1.1	4.0	UJ	SM 2540 D		

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-INFLUENT-TSS-031523	03/15/2023	320-97846-1	Total Suspended Solids	10	MG/L	MDL	1.1	4.0	J	SM 2540 D		
SEEP-B-INFLUENT-TSS-031523	03/15/2023	320-97846-2	Total Suspended Solids	25	MG/L	MDL	1.1	4.0	J	SM 2540 D		
SEEP-C-EFFLUENT-TSS-031523	03/15/2023	320-97846-7	Total Suspended Solids	6.0	MG/L	MDL	1.1	4.0	J	SM 2540 D		
SEEP-C-INFLUENT-TSS-031523	03/15/2023	320-97846-3	Total Suspended Solids	51	MG/L	MDL	1.1	4.0	J	SM 2540 D		
SEEP-D-INFLUENT-TSS-031523	03/15/2023	320-97846-4	Total Suspended Solids	2.8	MG/L	MDL	1.1	4.0	J	SM 2540 D		

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

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

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-RAIN-20-040923	04/09/2023	320-98841-7	Hfpo Dimer Acid	0.042	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-204-040923	04/09/2023	320-98819-2	Hydrolyzed PSDA	0.0097	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-032923	03/29/2023	320-98445-7	Hydrolyzed PSDA	0.0032	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-032923-D	03/29/2023	320-98445-8	Hydrolyzed PSDA	0.0032	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-042823	04/28/2023	320-99693-2	R-PSDA	0.0053	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-042823	04/28/2023	320-99693-2	Hydrolyzed PSDA	0.044	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-336-042823	04/28/2023	320-99693-2	R-EVE	0.0021	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-EFFLUENT-RAIN-19-040923	04/09/2023	320-98841-2	Hydrolyzed PSDA	0.0061	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-204-040923	04/09/2023	320-98819-7	R-PSDA	0.87	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-204-040923	04/09/2023	320-98819-7	Hydrolyzed PSDA	1.8	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-204-040923	04/09/2023	320-98819-7	R-EVE	0.71	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-031423	03/14/2023	320-97855-7	R-PSDA	0.68	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-031423	03/14/2023	320-97855-7	Hydrolyzed PSDA	2.1	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-031423	03/14/2023	320-97855-7	R-EVE	0.61	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-032923	03/29/2023	320-98445-4	R-PSDA	0.76	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-032923	03/29/2023	320-98445-4	Hydrolyzed PSDA	2.0	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-032923	03/29/2023	320-98445-4	R-EVE	0.65	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-042823	04/28/2023	320-99693-8	R-PSDA	0.31	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-042823	04/28/2023	320-99693-8	Hydrolyzed PSDA	0.58	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-336-042823	04/28/2023	320-99693-8	R-EVE	0.25	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-21-040923	04/09/2023	320-98841-5	R-PSDA	0.50	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-21-040923	04/09/2023	320-98841-5	Hydrolyzed PSDA	1.4	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-21-040923	04/09/2023	320-98841-5	R-EVE	0.46	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-5	R-PSDA	0.80	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-D-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-5	Hydrolyzed PSDA	2.1	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-D-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-5	R-EVE	0.62	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-204-040923	04/09/2023	320-98819-1	R-PSDA	1.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-204-040923	04/09/2023	320-98819-1	Hydrolyzed PSDA	4.7	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-204-040923	04/09/2023	320-98819-1	R-EVE	0.64	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-318-042823	04/28/2023	320-99693-1	R-PSDA	0.83	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-318-042823	04/28/2023	320-99693-1	Hydrolyzed PSDA	3.3	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-318-042823	04/28/2023	320-99693-1	R-EVE	0.43	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-031423	03/14/2023	320-97855-1	R-PSDA	1.7	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-031423	03/14/2023	320-97855-1	Hydrolyzed PSDA	18	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-031423	03/14/2023	320-97855-1	R-EVE	0.67	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-032923	03/29/2023	320-98445-1	R-PSDA	1.9	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-032923	03/29/2023	320-98445-1	Hydrolyzed PSDA	13	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-032923	03/29/2023	320-98445-1	R-EVE	0.76	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-19-040923	04/09/2023	320-98841-1	R-PSDA	1.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-19-040923	04/09/2023	320-98841-1	Hydrolyzed PSDA	5.6	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-19-040923	04/09/2023	320-98841-1	R-EVE	0.60	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-1	R-PSDA	1.7	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-1	Hydrolyzed PSDA	17	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-1	R-EVE	0.72	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-204-040923	04/09/2023	320-98819-4	R-PSDA	0.15	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-204-040923	04/09/2023	320-98819-4	Hydrolyzed PSDA	1.0	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-204-040923	04/09/2023	320-98819-4	R-EVE	0.083	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-336-032923	03/29/2023	320-98445-9	R-PSDA	0.0097	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-032923	03/29/2023	320-98445-9	Hydrolyzed PSDA	0.085	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-032923	03/29/2023	320-98445-9	R-EVE	0.0063	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-042823	04/28/2023	320-99693-5	R-PSDA	0.013	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-042823	04/28/2023	320-99693-5	Hydrolyzed PSDA	0.099	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-336-042823	04/28/2023	320-99693-5	R-EVE	0.0068	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-24-031323	03/13/2023	320-97845-7	Hydrolyzed PSDA	0.0047	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-204-040923	04/09/2023	320-98819-3	R-PSDA	9.5	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-204-040923	04/09/2023	320-98819-3	Hydrolyzed PSDA	51	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-204-040923	04/09/2023	320-98819-3	R-EVE	5.5	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-031423	03/14/2023	320-97855-3	R-PSDA	5.1	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-031423	03/14/2023	320-97855-3	Hydrolyzed PSDA	51	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-031423	03/14/2023	320-97855-3	R-EVE	2.2	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-032923	03/29/2023	320-98445-2	R-PSDA	9.4	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-032923	03/29/2023	320-98445-2	Hydrolyzed PSDA	63	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-032923	03/29/2023	320-98445-2	R-EVE	5.5	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-042823	04/28/2023	320-99693-4	R-PSDA	4.9	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-042823	04/28/2023	320-99693-4	Hydrolyzed PSDA	29	UG/L	PQL		0.076	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-042823	04/28/2023	320-99693-4	R-EVE	3.5	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-042823-D	04/28/2023	320-99693-3	R-PSDA	5.4	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-042823-D	04/28/2023	320-99693-3	Hydrolyzed PSDA	30	UG/L	PQL		0.076	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-336-042823-D	04/28/2023	320-99693-3	R-EVE	3.7	UG/L	PQL		0.14	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-20-040923	04/09/2023	320-98841-8	R-PSDA	4.5	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-INFLUENT-RAIN-20-040923	04/09/2023	320-98841-8	Hydrolyzed PSDA	28	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-20-040923	04/09/2023	320-98841-8	R-EVE	2.6	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-8	R-PSDA	6.7	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-8	Hydrolyzed PSDA	58	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-8	R-EVE	3.6	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-EFFLUENT-RAIN-20-040923	04/09/2023	320-98841-4	Hydrolyzed PSDA	0.0023	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-204-040923	04/09/2023	320-98819-5	R-PSDA	0.74	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-204-040923	04/09/2023	320-98819-5	Hydrolyzed PSDA	0.71	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-204-040923	04/09/2023	320-98819-5	R-EVE	0.57	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-031423	03/14/2023	320-97855-5	R-PSDA	0.77	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-031423	03/14/2023	320-97855-5	Hydrolyzed PSDA	1.1	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-031423	03/14/2023	320-97855-5	R-EVE	0.62	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-032923	03/29/2023	320-98445-3	R-PSDA	0.71	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-032923	03/29/2023	320-98445-3	Hydrolyzed PSDA	0.82	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-032923	03/29/2023	320-98445-3	R-EVE	0.52	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-042823	04/28/2023	320-99693-6	R-PSDA	0.29	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-042823	04/28/2023	320-99693-6	Hydrolyzed PSDA	0.27	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-336-042823	04/28/2023	320-99693-6	R-EVE	0.23	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-20-040923	04/09/2023	320-98841-3	R-PSDA	0.28	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-20-040923	04/09/2023	320-98841-3	Hydrolyzed PSDA	0.35	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-20-040923	04/09/2023	320-98841-3	R-EVE	0.28	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-3	R-PSDA	0.68	UG/L	PQL		0.071	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-C-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-3	Hydrolyzed PSDA	1.0	UG/L	PQL		0.038	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

Validation Reason Code: Uncertainty around the analysis of R-PSDA, Hydrolyzed PSDA and R-EVE; J-qualifier added to all detects in the data set, even if there was no matrix spike analyzed for that particular sample.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-C-INFLUENT-RAIN-24-031323	03/13/2023	320-97845-3	R-EVE	0.53	UG/L	PQL		0.072	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-A-EFFLUENT-336-032923	03/29/2023	320-98445-7	PFMOAA	0.019	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-A-INFLUENT-336-032923	03/29/2023	320-98445-1	Hfpo Dimer Acid	23	UG/L	PQL		0.081	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-20-040923	04/09/2023	320-98841-7	R-PSDA	0.0037	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-20-040923	04/09/2023	320-98841-7	Hydrolyzed PSDA	0.032	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-20-040923	04/09/2023	320-98841-7	R-EVE	0.0030	UG/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep
SEEP-B-EFFLUENT-RAIN-20-040923	04/09/2023	320-98841-7	PFMOAA	0.073	ug/L	PQL		0.0020	J	Cl. Spec. Table 3 Compound SOP		PFAS_DI_Prep

Site: Fayetteville **Sampling Program:** Seep Flow Through Cell Sampling 2023 **Validation Options:** LABSTATS

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
SEEP-B-EFFLUENT-TSS-033023	03/30/2023	320-98444-6	Total Suspended Solids	2.8	MG/L	MDL	1.1	4.0	J	SM 2540 D		
SEEP-B-EFFLUENT-TSS-042823	04/28/2023	320-99695-6	Total Suspended Solids	1.6	MG/L	MDL	1.1	4.0	J	SM 2540 D		