

November 10, 2022

Mr. Matthew Hubicki
Project Manager, Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, NY 12233-7014

Re: NYSDEC Site No. 360174

October 2022 – November 2022 Monthly Progress Report

Westchester County Airport, 240 Airport Road

White Plains, New York 10604

Dear Mr. Hubicki:

Actions Taken/Accomplishments (October-November 2022)

A schedule of planned operations is included as Appendix A.

- The County/Airport approved First Environment's groundwater pilot test proposal and as the first step on October 5, First Environment oversaw the installation of monitoring wells and temporary piezometers downgradient of the former New York Air National Guard (NYANG) Burn Pit. The wells and piezometers will be used to evaluate the effectiveness of the remedial action pilot test.
- 2. The well locations for the aforementioned pilot test were surveyed on November 4 for horizontal and vertical control.
- 3. On October 5, 2022, NYSDEC Invited Public Comment for the Draft Plan to Investigate Contamination at Brownfield Site on Airport Road, West Harrison. Upon NYSDEC approval, First Environment will initiate the RIWP.
- 4. First Environment continued to monitor surface water flow and per- and polyfluoroalkyl substance (PFAS) concentrations leaving the end-of-pipe at OF-7 as well as New York City Department of Environment Projection (NYCDEP) gauging station (E-10). We concurrently recorded water level measurements in temporary wells along Airport Road and New King Street.
- 5. In October, groundwater water levels continued to rise due to increased precipitation. While groundwater levels remain low, we believe there was an added contribution of groundwater due to the rise of water levels to the primary stream leading to E-10. In August, due to drought conditions, the flow rate leaving the Airport at OF-7 closely matched the flow rate approximately 1,000 feet downgradient at the E-10.

- In October the flow rate at E-10 was approximately four times than that at OF-7, indicating that the stream had continued to gain groundwater at an increased rate. Water flow rates measured at OF-7, E-10, Trib 1, and Trib 2 are shown in Table 1. Figure 1 illustrates the locations where the water levels were measured. Hydrographs illustrating measured water-level below ground surface are included in Appendix B.
- 6. First Environment measured the end-of-pipe flow leaving the OF-7 storm sewer on October 26. The flow rate was approximately 10 gallons per minute (gpm) compared to an average flow of 54 gpm measured from July 8 to13, 2019. This reduced flow is the result of the new stormwater system installed at OF-7 despite the continued infiltration of groundwater at inlets 7015.1, 7014.2, 7013, 7008, and 7007, as shown in Figure 2. We believe the influent leakage rate to be 1 to 3 gpm. The continued infiltration of groundwater into the stormwater system will require repairs to obtain watertight seals. First Environment is currently working with the Airport and County to address this issue.
- 7. The Airport removed sediment from the new stormwater system on the weekend of October 8 and 9, 2022.
- 8. First Environment coordinated a meeting between the Airport, County, and Pugni on November 4 to discuss grading and placement of the Fluoro-Sorb mat in the area where daylighting of groundwater occurs. The area highlighted in yellow on Figure 3 is the area being proposed to install the permeable reactive mat. The purpose of the mat is to provide a temporary solution to prevent sediment from re-entering the storm drains and to reduce PFAS concentrations entering the stormwater system.
- 9. The County received approval from NYSDEC for the Waterline Construction New King Street Workplan. The purpose of the workplan describes the handling of soil and groundwater containing per- and polyfluoroalkyl substance PFAS, soil sampling, as well as provisions for environmental oversight and air monitoring to be performed during the construction, and installation of a water supply pipeline from Westchester Joint Water Works (WJWW).

November & December Activities

- First Environment is coordinating with Airport personnel to oversee the installation of the permeable reactive mat in the area of groundwater daylighting shown on Figure 3.
- First Environment will provide a scope-of-work to the NYSDEC describing the groundwater pilot test implementation, schedule, and performance monitoring
- 3. Continue coordination with Regenesis for the upcoming groundwater pilot test mobilization and implementation.

- 4. Continue monthly performance monitoring for PFAS in surface water at OF-7 and NYCDEP gauging station E-10.
- 5. First Environment continues to provide environmental technical support to the County's engineering team during the bid process related to the construction and installation of a water supply pipeline from Westchester Joint Water Works (WJWW).
- 6. Continue to evaluate the larger application of the Fluoro-Sorb mat for use at OF-7 and OF-4 to reduce PFAS in surface water.
- 7. First Environment is working the Westchester County Public Works & Transportation (WCPWT) to develop a permanent solution to correct the daylighting of groundwater to the storm sewer as shown in Figure 3
- 8. Continue to work with WCPWT and Pugni to correct/repair infiltration of groundwater near the former burn pit at drains 7015.1, 7014.2, 7013, 7008, and 7007, as shown in Figure 2.

If you have any questions, please do not hesitate to call.

Regards,

FIRST ENVIRONMENT, INC.

Scott R. Green, P.G.

Director, Insurance Consulting

Service Group

David Luer

Project Manager/Field Team Leader

Att.

c: B. Tod Delaney, Ph.D., P.E., BCEE - First Environment, Inc.

Arthur Clarke, J.D. - First Environment, Inc.

Hugh Greechan, Jr. P.E. - Westchester County (hjg7@westchestergov.com)

John Nonna - Westchester County (jnonna@westchestergov.com)

April Gasparri – Westchester County (axqc@westchestergov.com)

John Inserra - Westchester County Airport (jhi1@westchestergov.com)

John Benvegna - WSP (john.benvegna@wsp.com)

G. Heitzman

S. Crisafulli

M. Murphy

K.Maloney

J. Brown

J. Carpenter

M. Schuck – NYSDOH

K. Kulow – NYSDOH

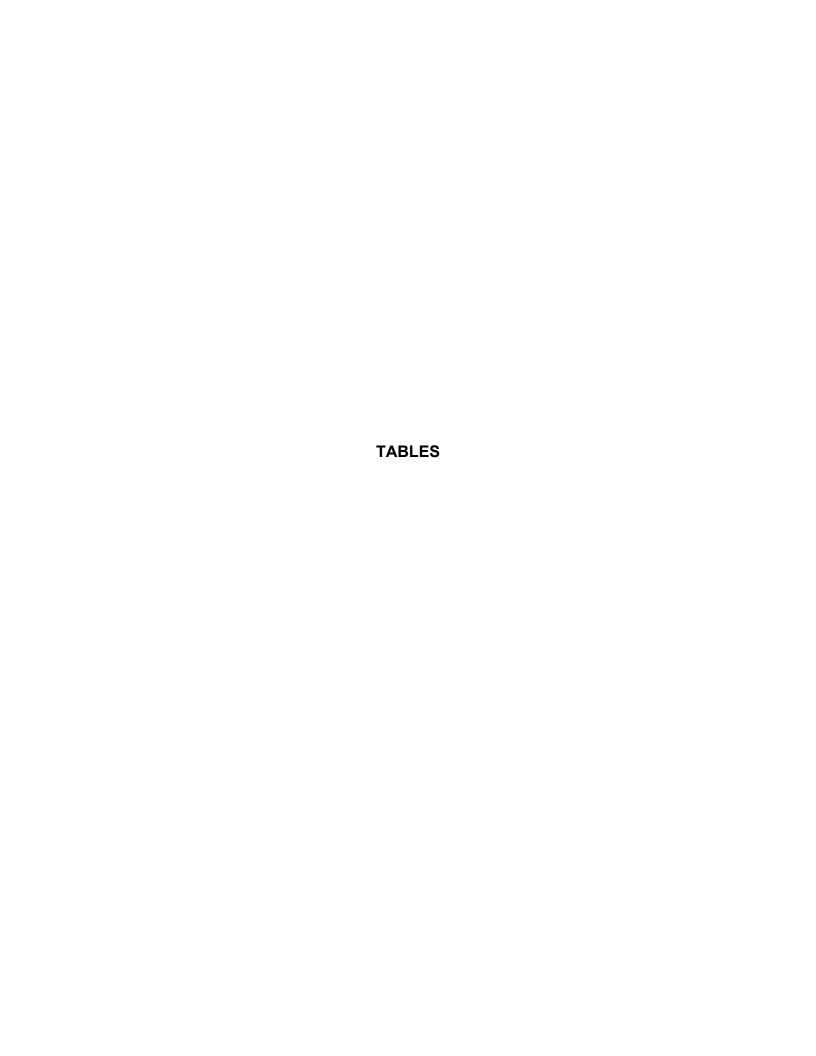
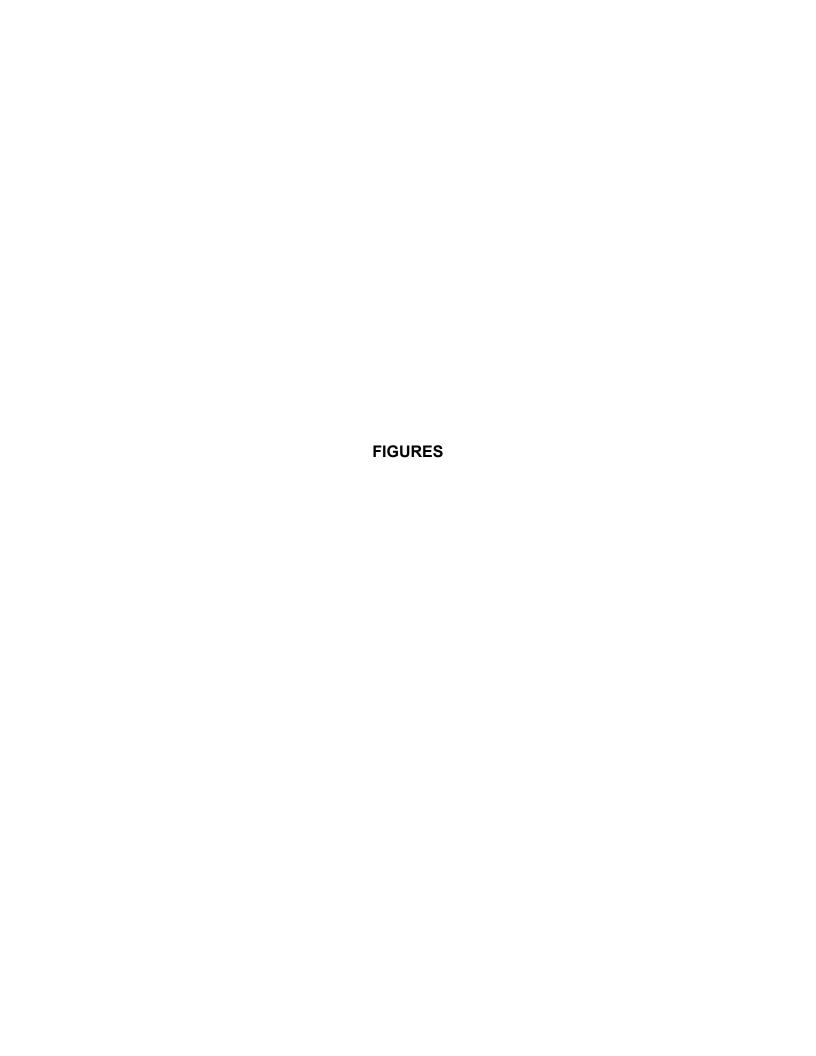
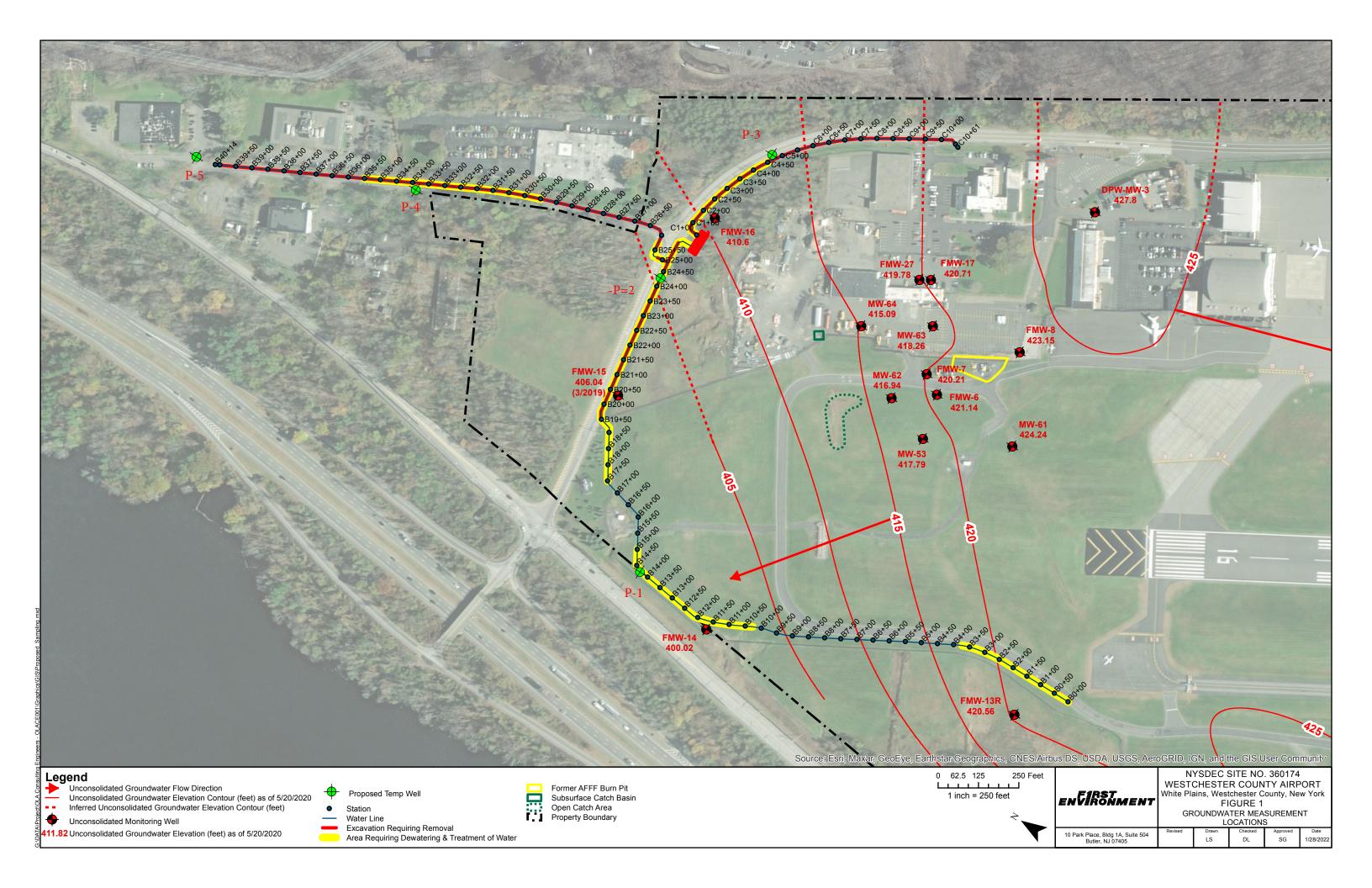


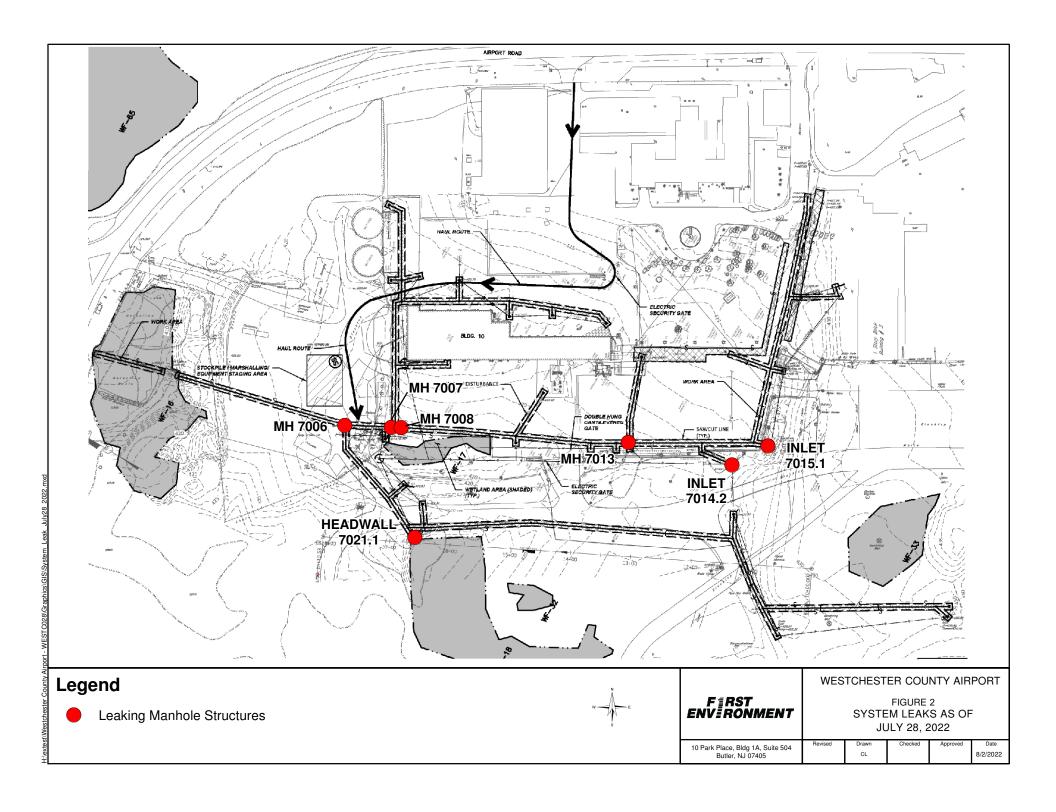
TABLE 1 Surface Water Flow

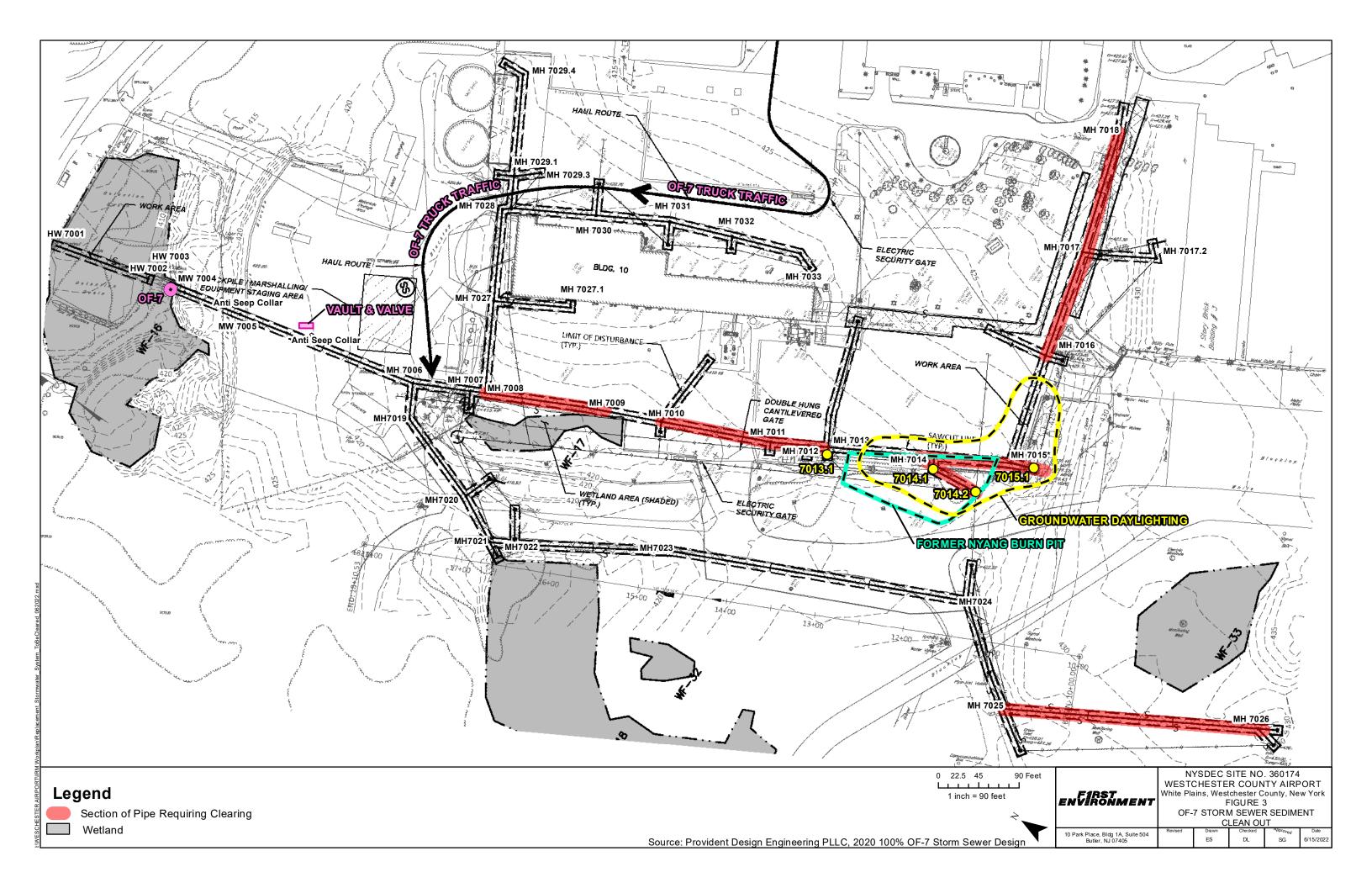
Date/Location	OF-7	E-10	Trib 1	Trib 2
6/17/2022	5	20	2	0.5
6/27/2022	5	17	2	0.5
7/5/2022	1	10	1	0
7/27/2022	1.5	10	1	0
8/15/2022	3	3	0.1	0
8/30/2022	2	2	0	0
9/28/2022	2.6	9	1	0
10/26/2022	9.75	43	5	1

Note - Flow is in gallons per minute











APPENDIX A Work Activity Schedule 2022-2023

Milestone	Estimated Completion Date	Estimated Completion Percentage
OF-7 Storm Sewer Installation	May 13, 2022	100%
OF-7 Performance Monitoring	2 nd Quarter 2023	80%
New King Street Workplan	January 24	100%
Execution of New King Street Workplan	April 2022	100%
Waterline Workplan	April 1	100%
Execution of Waterline Workplan	October 2024	0%
OF-4 IRM Pilot Test ¹	Winter 2022	50%
Remedial Investigation Workplan Submittal	July 2022	100%
GW Pilot Test Scope of Work ²	Summer 2022	100%
GW Pilot Test	Winter 2022	35%
Execution of RI workplan ³	Spring 2023	0%
Remedial Action Alternatives Evaluation	2023	0%
Remedial Action Selection Report	TBD	0%
Certificate of Completion	TBD	0%

Estimated task durations and completions are tentative and are subject to modification based on site work, progress, weather delays, and other considerations such as contractor availability or Airport access.

¹ Pilot test CETCO Fluorsorb at OF-7 – Evaluate the effectiveness of Flour sorb reducing PFOS and PFOA in surface water. Pilot test CETCO Fluor sorb at OF-7 before testing at OF-4.

² Scope of work submitted to the County approved September 2022

³ Start date dependent upon workplan approval.

