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October 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
September 2022 – October 2022 Monthly Progress Report
Westchester County Airport, 240 Airport Road
White Plains, New York 10604

Dear Mr. Hubicki:

Actions Taken/Accomplishments (September-October 2022)

A schedule of planned operations is included as Appendix A.

1. The County/Airport approved First Environment groundwater pilot test proposal and as the first step on October 5, First Environment installed monitoring along with temporary piezometers downgradient of the former New York Air National Guard (NYANG) Burn Pit to evaluate the effectiveness of the pilot test.
2. Continued to monitor surface water flow and PFAS concentrations leaving the end-of-pipe at OF-7 and at New York City Department of Environment Projection (NYCDEP) gauging station (E-10) while collecting water levels in temporary wells along Airport Road and New King Street.
3. In September, groundwater water levels rose 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 mainstream 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 September, the flow rate at E-10 was approximately three times that at OF-7, indicating that the stream had resumed gaining groundwater. Water flow measured at OF-7, E-10, Trib 1, and Trib 2 is shown in Table 1. Figure 1 illustrates the locations where the water levels were measured. Measured water-level depths below ground surface are included in Appendix B.
4. First Environment measured the end-of-pipe flow leaving OF-7 storm sewer on September 28 at approximately 2.6 gallons per minute (gpm) compared to

an average flow of 54 gpm measured from July 8-13, 2019. This reduced flow is the result of the new stormwater system completed at OF-7 despite continued infiltration of groundwater at 1 to 3 gpm leaking at inlets 7015.1, 7014.2, 7013, 7008, and 7007, as shown in Figure 2. We also believe the low flow can be attributed to dry conditions. The leaking issue will require repairs to obtain watertight seals. First Environment is working with the Airport and County to eliminate the leaks.

5. First Environment continued the data evaluation of the July 27 pilot scale test using Cetco's Fluor-sorb to reduce PFAS in water at OF-7. This pilot test involves a combination of Fluor-sorb matting folded into three layers and used to line the 15-foot section of HDPE pipe between Manhole MH 7004 and Headwall 7003. Additionally, loose Fluor-sorb granules were loaded into sandbags and placed at the upstream and downstream ends to provide an additional sink for PFAS. A sample was collected before installing the Fluor-sorb sandbags and matting to determine the extant PFAS levels. Another sample was collected following installation of the sandbags and a final sample was collected following installation of the matting. The final sample was collected approximately 2.5 hours and the following day after installation. The results of the pilot test were encouraging with a decrease in PFOS, PFOA, and total PFAS ranging from 69 to 72 percent leaving OF-7.
6. Cleaning of the remaining frac tank was conducted on September 12th. The tank was removed on September 14th.
7. Included laboratory results from the August 30 sample event in Appendix C.

October & November Activities

1. Continue monthly performance monitoring for PFAS in surface water at OF-7 and NYCDEP gauging station E-10.
2. The County received approval from NYSDEC for the Waterline Construction New King Street Workplan. The purpose of the workplan describes handling of soil and groundwater containing per- and polyfluoroalkyl substance (PFAS), soil sampling, as well as provisions for environmental oversight and air monitoring conducted during construction, and installation of a water supply pipeline from Westchester Joint Water Works (WJWW).
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 approval, will implement the RIWP.
4. First Environment will provide a scope for work to the NYSDEC describing the groundwater pilot test implementation, schedule, and performance monitoring.
5. The removal of sediment from newly installed storm sewer is planned for 2nd week for October,

6. Continue to evaluate the larger application of the Fluorsorb 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 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.
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G. Heitzman
S. Crisafulli
M. Murphy
J. Brown
J. Carpenter
M. Schuck – NYSDOH
K. Kulow – NYSDOH

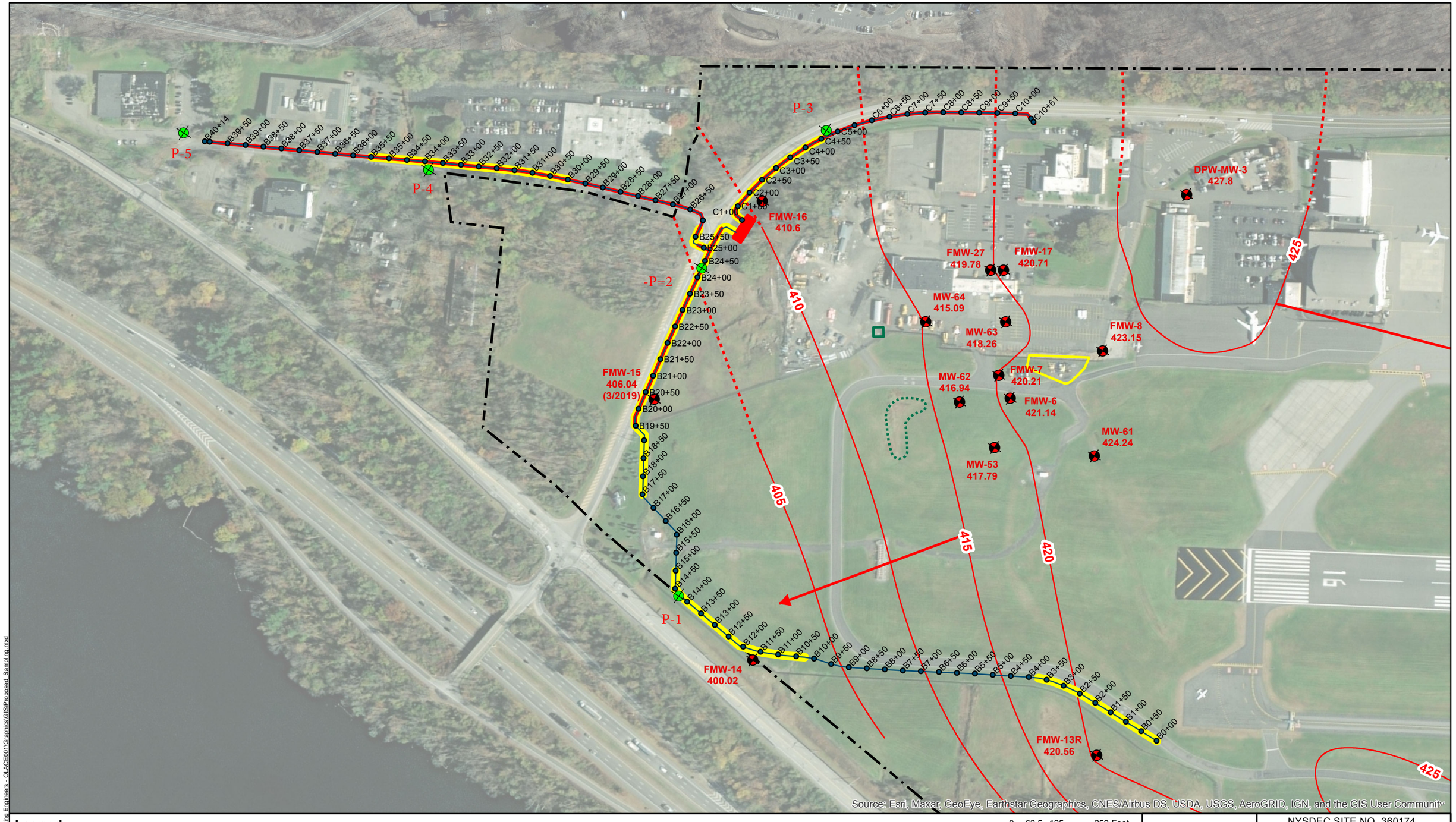
TABLES

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

Note - Flow is in gallons per minute

FIGURES



Legend

- Unconsolidated Groundwater Flow Direction
- Unconsolidated Groundwater Elevation Contour (feet) as of 5/20/2020
- Inferred Unconsolidated Groundwater Elevation Contour (feet)
- Unconsolidated Monitoring Well
- 411.82 Unconsolidated Groundwater Elevation (feet) as of 5/20/2020
- Proposed Temp Well
- Station
- Water Line
- Excavation Requiring Removal
- Area Requiring Dewatering & Treatment of Water
- Former AFFF Burn Pit
- Subsurface Catch Basin
- Open Catch Area
- Property Boundary

0 62.5 125 250 Feet

1 inch = 250 feet

N

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NYSDEC SITE NO. 360174
WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 1
GROUNDWATER MEASUREMENT LOCATIONS

Revised	Drawn	Checked	Approved	Date
	LS	DL	SG	1/28/2022

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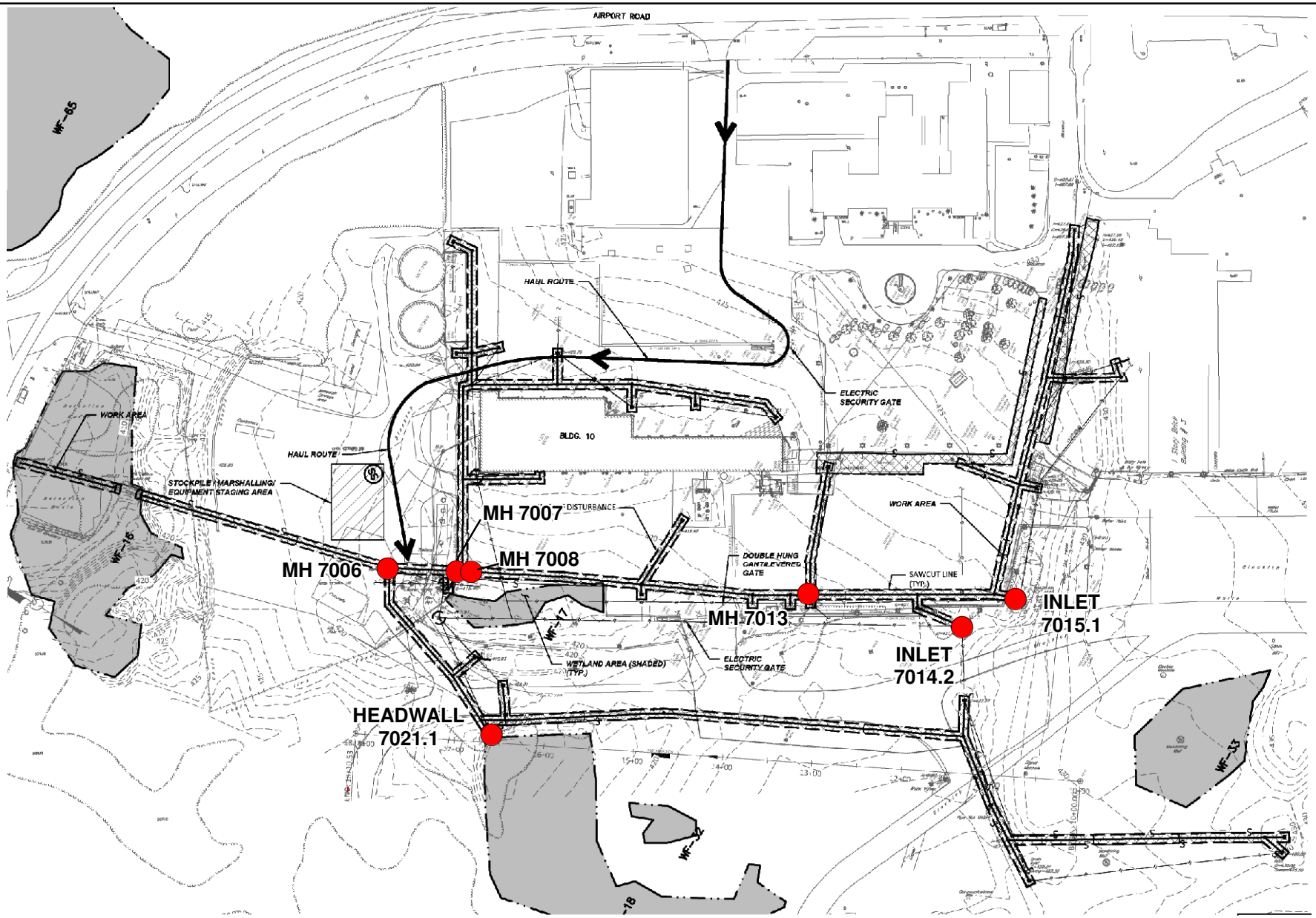

Legend

- Leaking Manhole Structures

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WESTCHESTER COUNTY AIRPORT

FIGURE 2
SYSTEM LEAKS AS OF
JULY 28, 2022

Revised	Drawn	Checked	Approved	Date
	CL			8/2/2022

H:\extest\Westchester County Airport - WEST\C028\Graphics\GIS\System Leak July28 2022.mxd

MH 7029.4
HAUL ROUTE
MH 7029.1
MH 7029.3
OF-7 TRUCK TRAFFIC
OF-7 TRUCK TRAFFIC
MH 7028
MH 7031
MH 7032
MH 7030
MH 7018
WORK AREA
HW 7001
HW 7003
HW 7002
MW 7004
OF-7
KPILE / MARSHALLING/ EQUIPMENT STAGING AREA
Anti Seep Collar
VAULT & VALVE
MW 7005
Anti Seep Collar
HAUL ROUTE
BLDG. 10
MH 7033
ELECTRIC SECURITY GATE
MH 7017
MH 7017.2
MH 7027
MH 7027.1
LIMIT OF DISTURBANCE (TYP.)
MH 7016
WORK AREA
MH 7006
MH 7007
MH 7008
MH 7009
MH 7010
DOUBLE HUNG CANTILEVERED GATE
MH7019
MH 7011
MH 7013
SAWCUT LINE (TYP.)
MH 7012
MH 7014
MH 7015
7013.1
7014.1
7015.1
7014.2
WF-16
WF-17
WETLAND AREA (SHADED) (TYP.)
ELECTRIC SECURITY GATE
GROUNDWATER DAYLIGHTING
FORMER NYANG BURN PIT
MH7020
MH7021
MH7022
MH7023
MH7024
WF-32
WF-33
MH 7025
MH 7026

Legend

- Section of Pipe Requiring Clearing
- Wetland

0 22.5 45 90 Feet

1 inch = 90 feet

N

Source: Provident Design Engineering PLLC, 2020 100% OF-7 Storm Sewer Design

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WESTCHESTER COUNTY AIRPORT
White Plains, Westchester County, New York
FIGURE 3
OF-7 STORM SEWER SEDIMENT CLEAN OUT

Revised	Drawn	Checked	Approved	Date
	ES	DL	SG	6/15/2022

I:\WESCHESTER AIRPORT\TRM1\Workplan\Replacement Stormwater System_ToBeCleared_062022.mxd

APPENDIX A

APPENDIX A
Work Activity Schedule
2022

Milestone	Estimated Completion Date	Estimated Completion Percentage
OF-7 Storm Sewer Installation	May 13, 2022	100%
OF-7 Performance Monitoring	2nd Quarter 2023	70%
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*	Winter 2022	50%
Remedial Investigation Workplan**	July 2022	100%
GW Pilot Test Scope of Work***	Summer 2022	100%
GW Pilot Test	Fall 2022	15%
Execution of RI workplan	Fall/Winter 2022	0%
Remedial Action Alternatives	2023	0%
Certificate of Completion	TBD	0%

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

** RIWP submitted to the County. Submit RIWP to NYSDEC in July.

*** Scope of work submitted to the County.

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.

Monthly progress reports will provide task initiation date for next month activity.

Implementation of reactive core mat and PFAS filter box using CETCO called FLUOR-SORB for a pilot test to reduce PFAS in surface water.

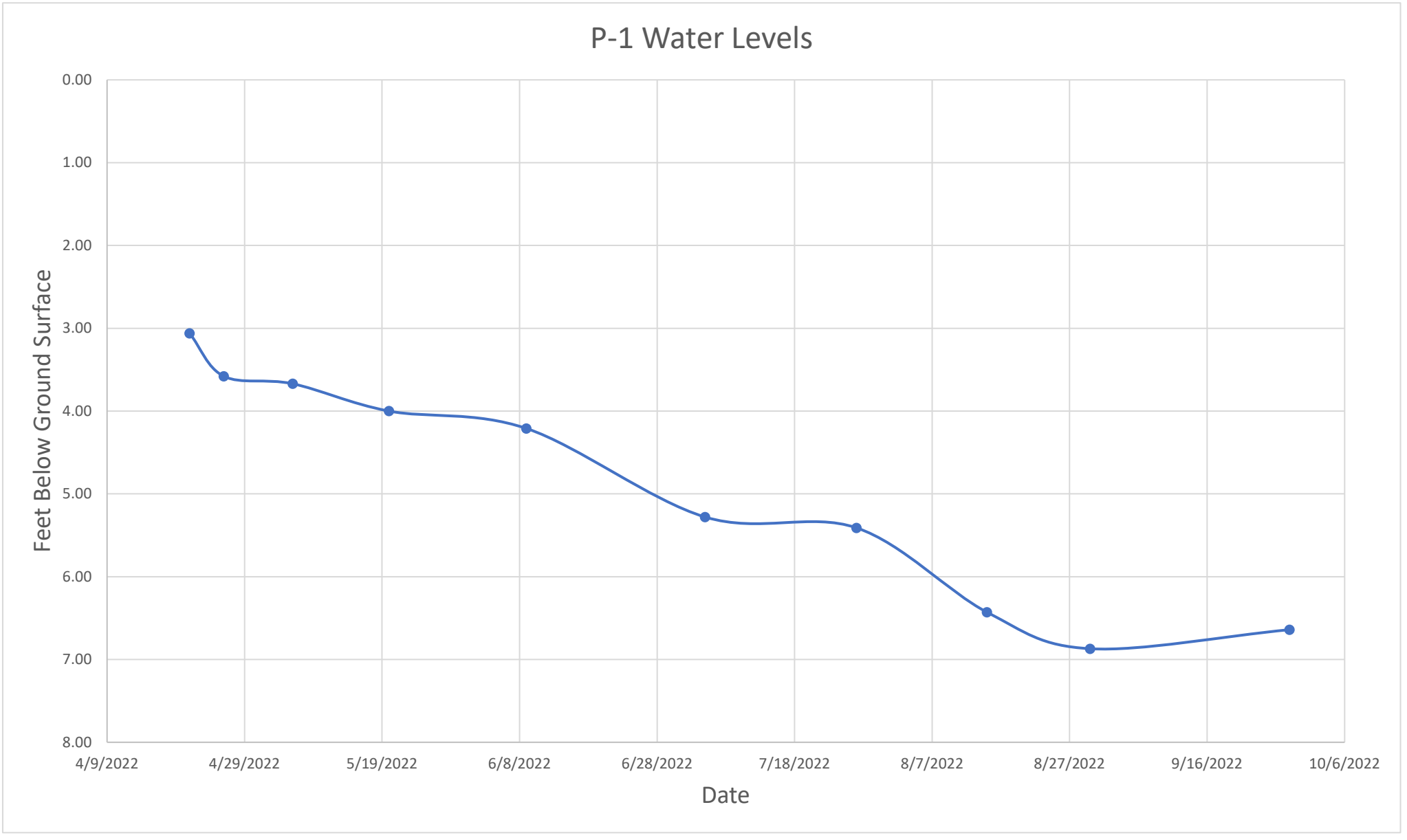
APPENDIX B

Temp Well	Date	Feet Below Ground Surface		
P-1	4/21/2022	3.06		
	4/26/2022	3.58		
	5/6/2022	3.67		
	5/20/2022	4.00		
	6/9/2022	4.21		
	7/5/2022	5.28		
	7/27/2022	5.41		
	8/15/2022	6.43		
	8/30/2022	6.87		
	9/28/2022	6.64		
P-2	4/21/2022	4.74		
	4/26/2022	4.75		
	5/6/2022	4.86		
	5/20/2022	4.83		
	6/9/2022	4.95		
	7/5/2022	5.22		
	7/27/2022	5.13		
	8/15/2022	5.25		
	8/30/2022	5.30		
	9/28/2022	5.12		
P-3	4/21/2022	0.85		
	4/26/2022	1.55		
	5/6/2022	1.97		
	5/20/2022	1.78		
	6/9/2022	1.39		
	7/5/2022	3.50		
	7/27/2022	3.55		
	8/15/2022	4.83		
	8/30/2022	5.38		
	9/28/2022	3.98		
P-4	4/21/2022	3.10		
	4/26/2022	3.53		
	5/6/2022	4.01		
	5/20/2022	3.86		
	6/9/2022	3.74		
	7/5/2022	4.93		
	7/27/2022	3.65		
	8/15/2022	5.31		
	8/30/2022	5.58		
	9/28/2022	4.61		
P-5	4/21/2022	0.93		
	4/26/2022	2.45		
	5/6/2022	2.30		
	6/9/2022	2.16		
	7/5/2022	3.42		
	7/27/2022	3.54		
	8/15/2022	4.17		
	8/30/2022	5.19		
	9/28/2022	4.32		

Trib 1	4/21/2022	2.75		
	4/26/2022	2.89		
	5/6/2022	3.07		
	5/20/2022	3.01		
	6/9/2022	2.97		
	7/5/2022	3.70		
	7/27/2022	3.52		
	8/15/2022	3.85		
	8/30/2022	3.86		
	9/28/2022	3.50		
NKS	4/21/2022	2.86		
	4/26/2022	3.22		
	5/6/2022	3.50		
	5/20/2022	3.50		
	6/9/2022	3.40		
	7/5/2022	4.08		
	7/27/2022	3.82		
	8/15/2022	4.16		
	8/30/2022	4.41		
	9/28/2022	4.05		
Trib 2	4/21/2022	3.90		
	4/26/2022	3.74		
	5/6/2022	4.12		
	5/20/2022	3.87		
	6/9/2022	3.90		
	7/5/2022	4.91		
	7/27/2022	4.70		
	8/15/2022	5.40		
	8/30/2022	5.63		
	9/28/2022	4.77		
4R	4/21/2022	0.49		
	4/26/2022	0.86		
	5/6/2022	1.22		
	5/20/2022	1.27		
	6/9/2022	1.30		
	7/5/2022	3.07		
	7/27/2022	2.95		
	8/15/2022	3.65		
	8/30/2022	3.75		
	9/28/2022	2.85		
ES DS	4/21/2022	1.11		
	4/26/2022	1.27		
	5/6/2022	1.38		
	5/20/2022	1.15		
	6/9/2022	0.63		
	7/5/2022	2.99		
	7/27/2022	3.58		
	8/15/2022	4.12		
	8/30/2022	4.85		
	9/28/2022	4.53		

Permanent Wells		Measured	BGS	Stickup
FMW-13R	4/26/2022	6.35	3.92	2.43
	5/6/2022	6.93	4.5	2.43
	5/20/2022	9.67	7.24	2.43
	6/9/2022	6.52	4.09	2.43
	7/5/2022	8.71	6.28	2.43
	7/27/2022	8.13	5.7	2.43
	8/15/2022	10.05	7.62	2.43
	8/30/2022	10.87	8.44	2.43
	9/28/2022	10.34	7.91	2.43
FMW-14	4/26/2022	4.69	1.78	2.91
	5/6/2022	4.98	2.07	2.91
	5/20/2022	5.34	2.43	2.91
	6/9/2022	5.24	2.33	2.91
	7/5/2022	6.45	3.54	2.91
	7/27/2022	6.76	3.85	2.91
	8/15/2022	7.44	4.53	2.91
	8/30/2022	7.82	4.91	2.91
	9/28/2022	7.87	4.96	2.91
FMW-15	4/26/2022	9.03	6.16	2.87
	5/6/2022	9.57	6.7	2.87
	5/20/2022	9.92	7.05	2.87
	6/9/2022	10.02	7.15	2.87
	7/5/2022	10.21	7.34	2.87
	7/27/2022	10.02	7.15	2.87
	8/15/2022	10.43	7.56	2.87
	8/30/2022	10.76	7.89	2.87
	9/28/2022	10.60	7.73	2.87
FMW-16	4/26/2022	4.63	1.86	2.77
	5/6/2022	4.97	2.2	2.77
	5/20/2022	4.87	2.1	2.77
	6/9/2022	4.13	1.36	2.77
	7/5/2022	6.28	3.51	2.77
	7/27/2022	6.12	3.35	2.77
	8/15/2022	7.08	4.31	2.77
	8/30/2022	7.50	4.73	2.77
	9/28/2022	6.30	3.53	2.77

APPENDIX B


P-1 Water Levels
Feet Below Ground Surface
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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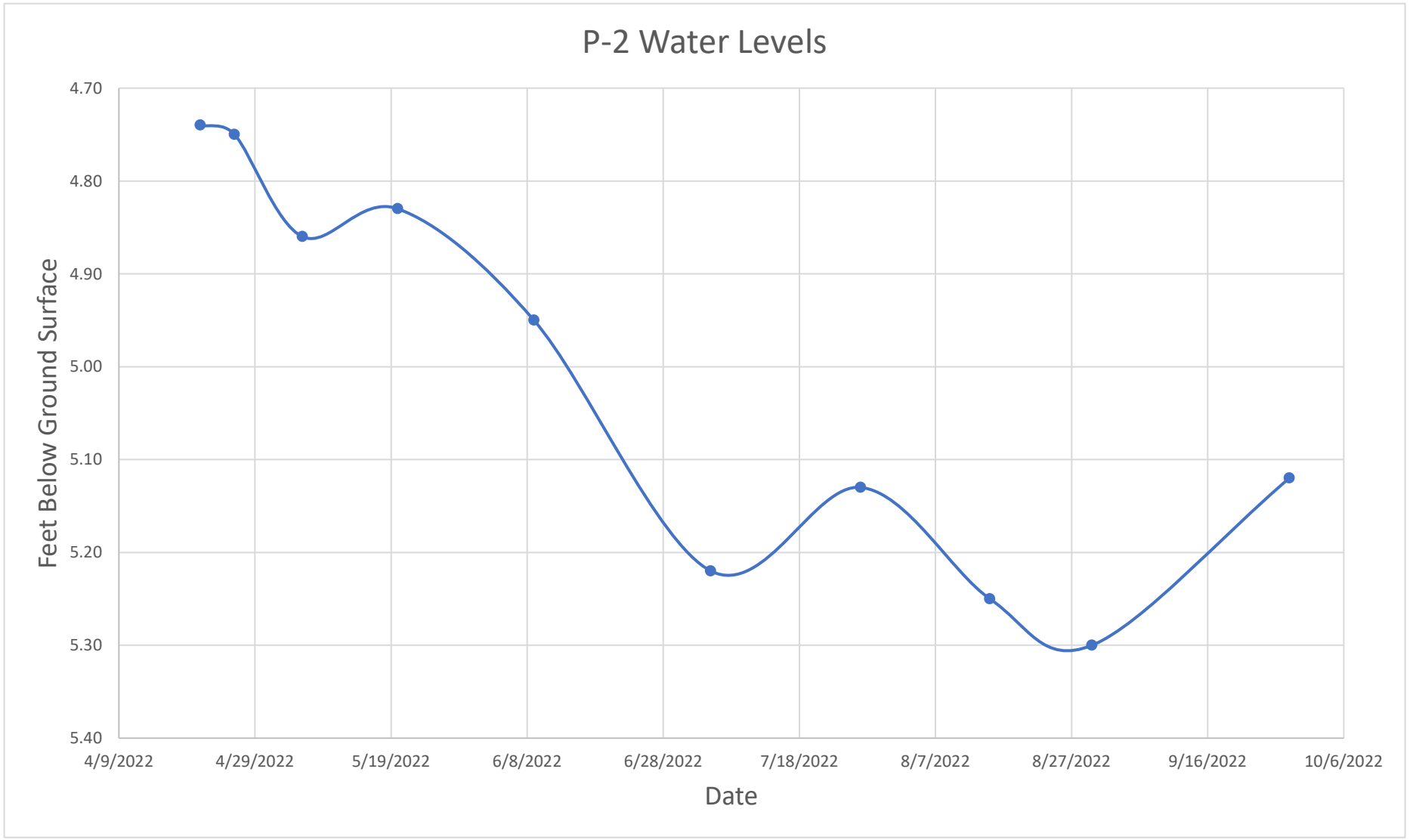
P-2 Water Levels
Feet Below Ground Surface
4.70
4.80
4.90
5.00
5.10
5.20
5.30
5.40
4/9/2022
4/29/2022
5/19/2022
6/8/2022
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8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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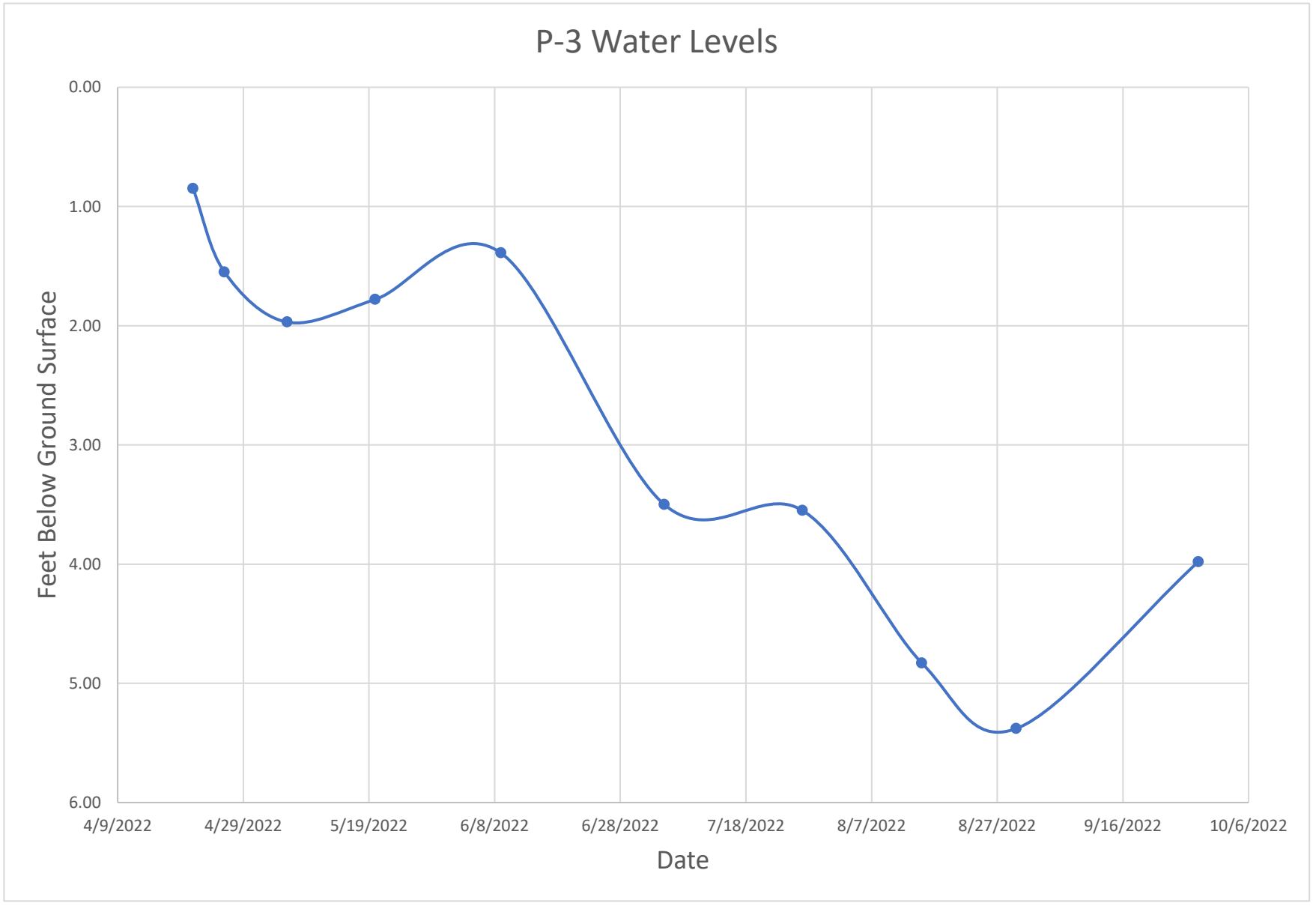
P-3 Water Levels
0.00
1.00
2.00
3.00
4.00
5.00
6.00
Feet Below Ground Surface
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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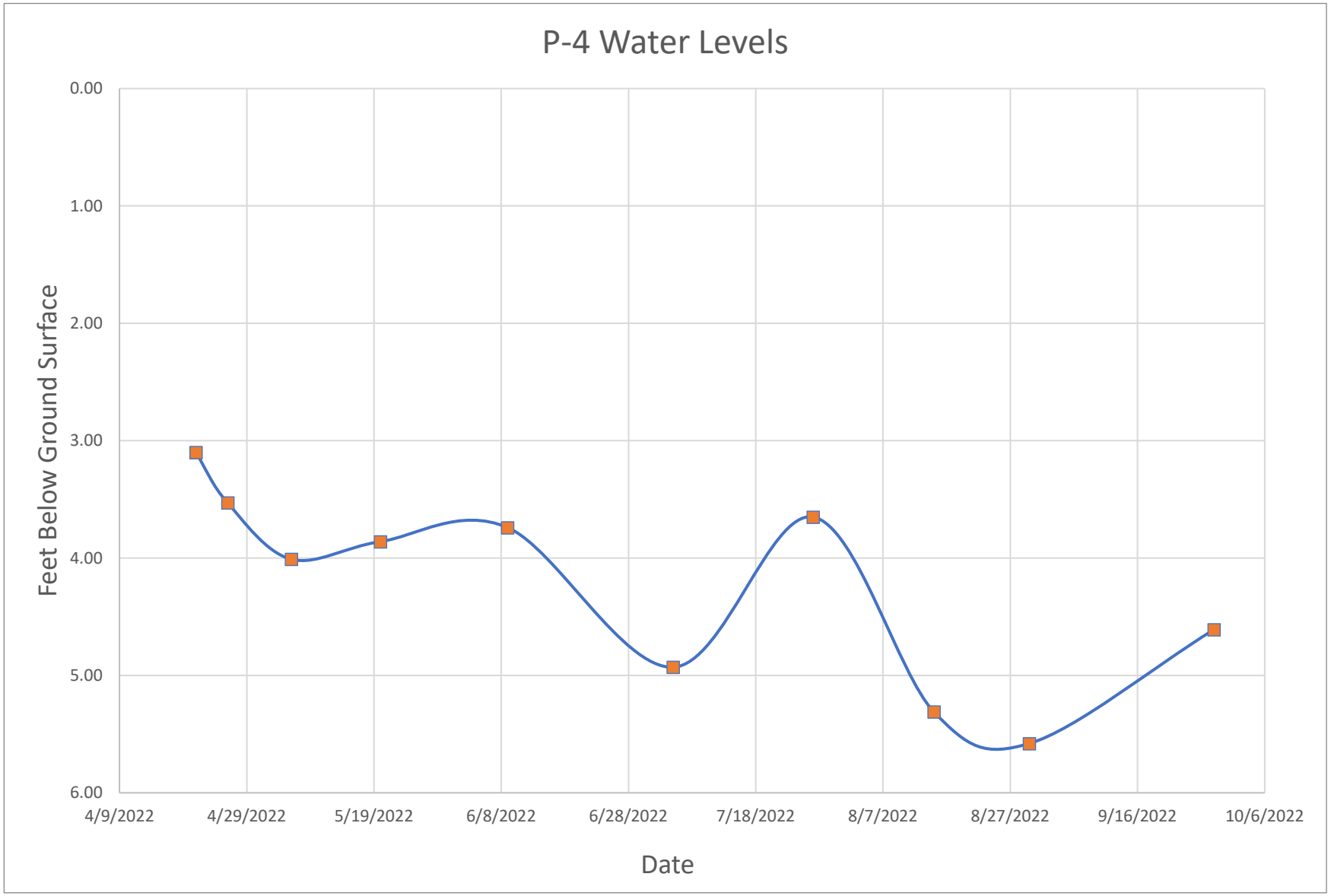
P-4 Water Levels
Feet Below Ground Surface
0.00
1.00
2.00
3.00
4.00
5.00
6.00
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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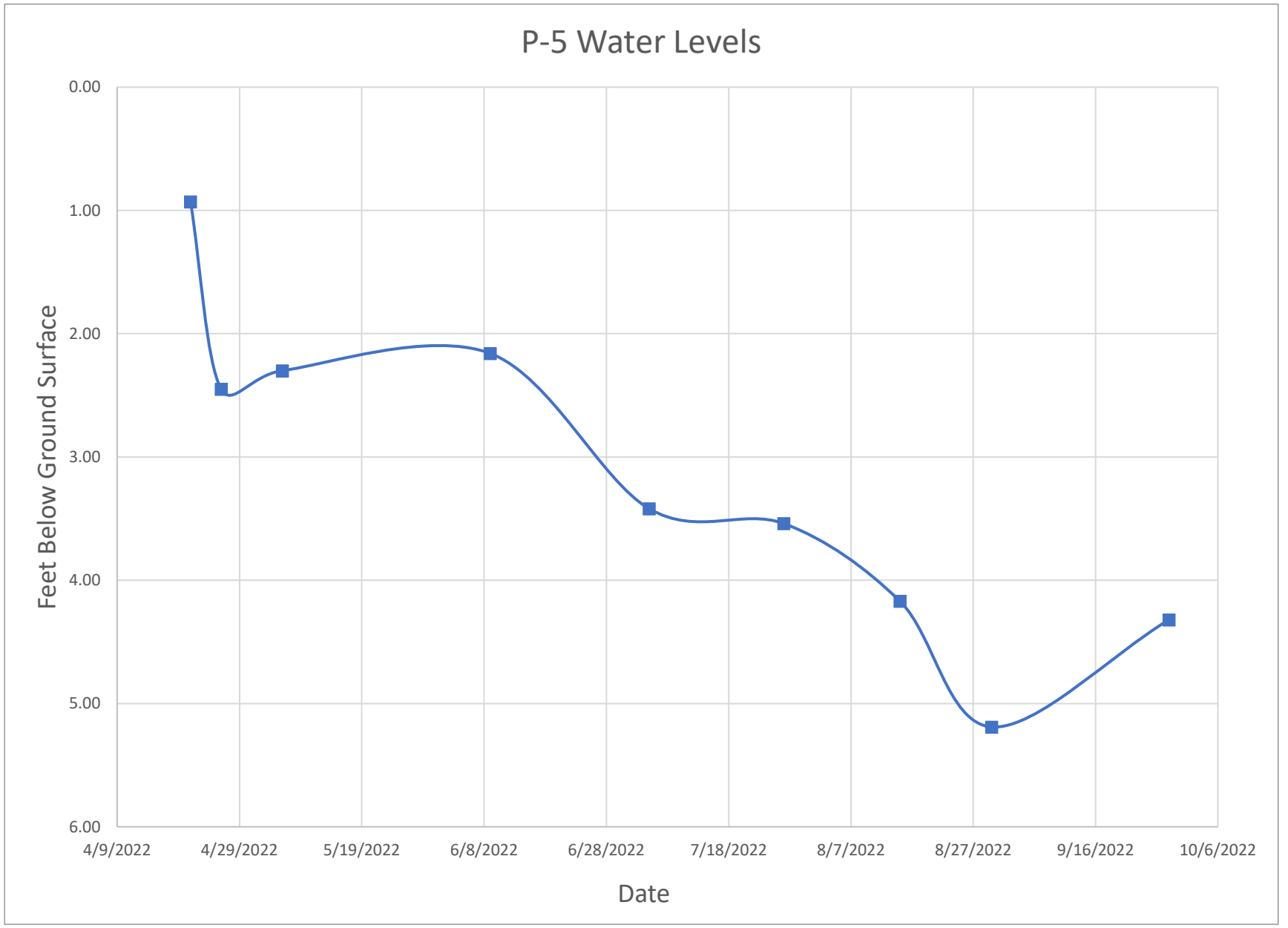
P-5 Water Levels
0.00
1.00
2.00
3.00
4.00
5.00
6.00
Feet Below Ground Surface
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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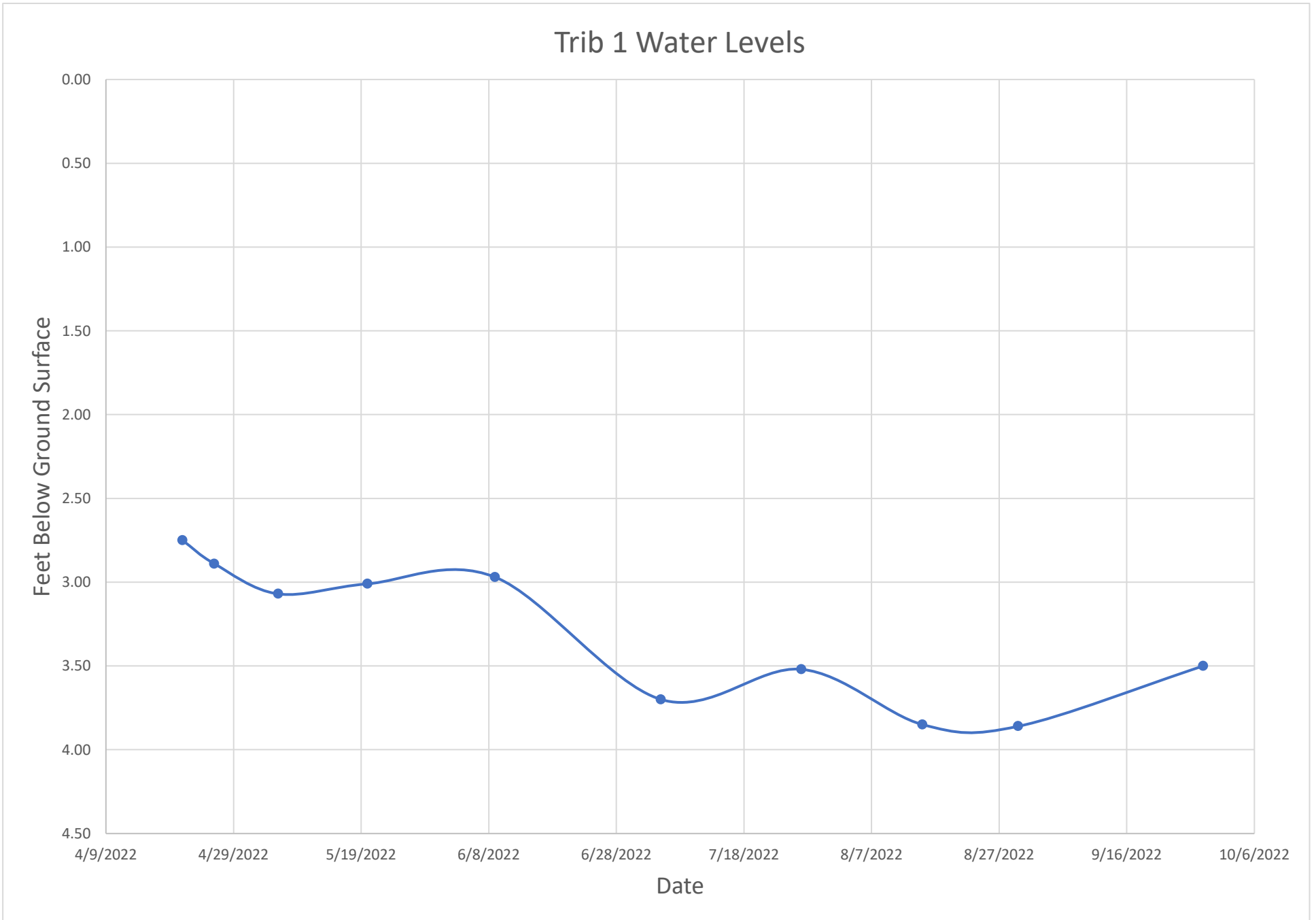
Trib 1 Water Levels
Feet Below Ground Surface
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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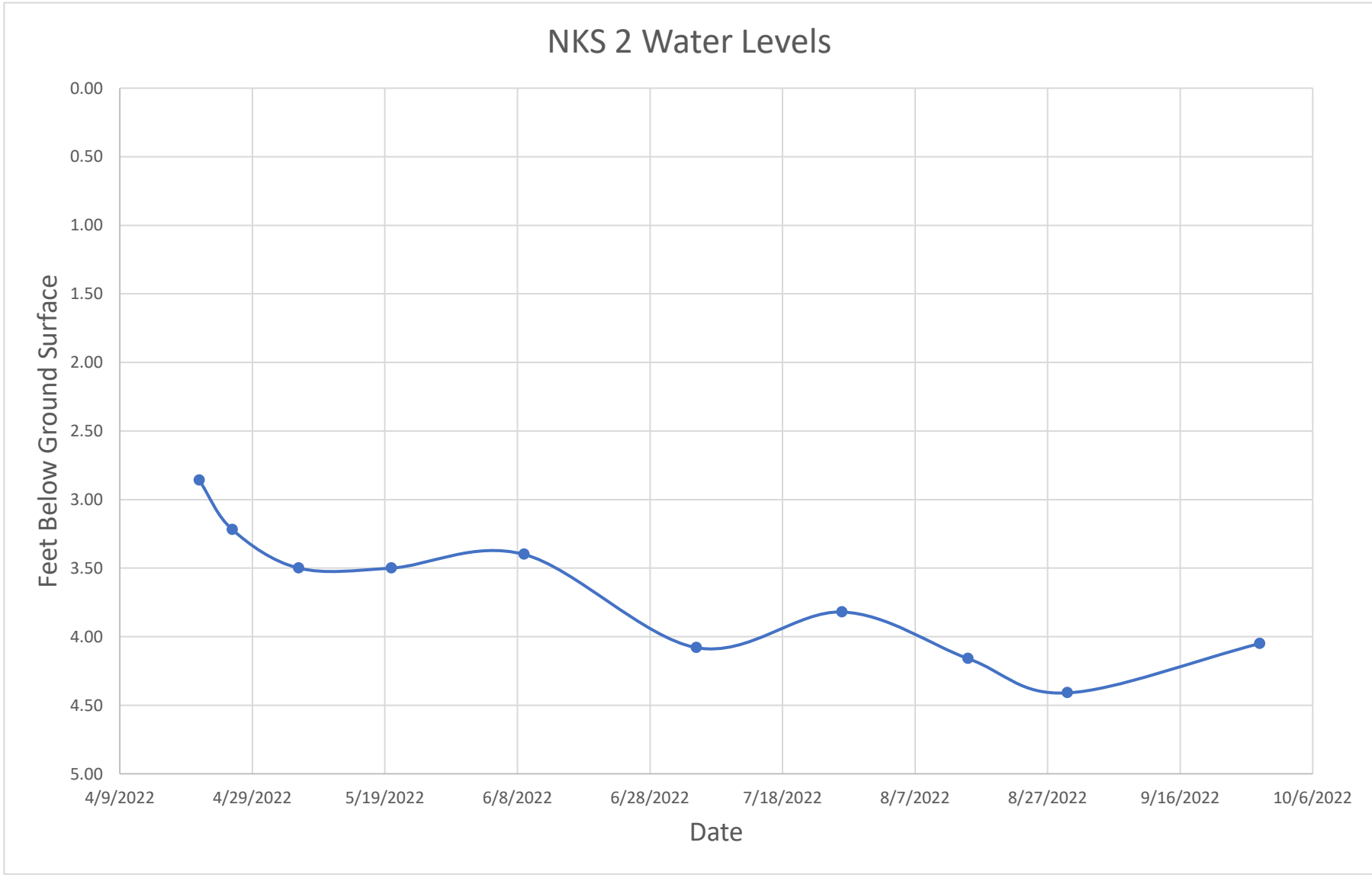
NKS 2 Water Levels
Feet Below Ground Surface
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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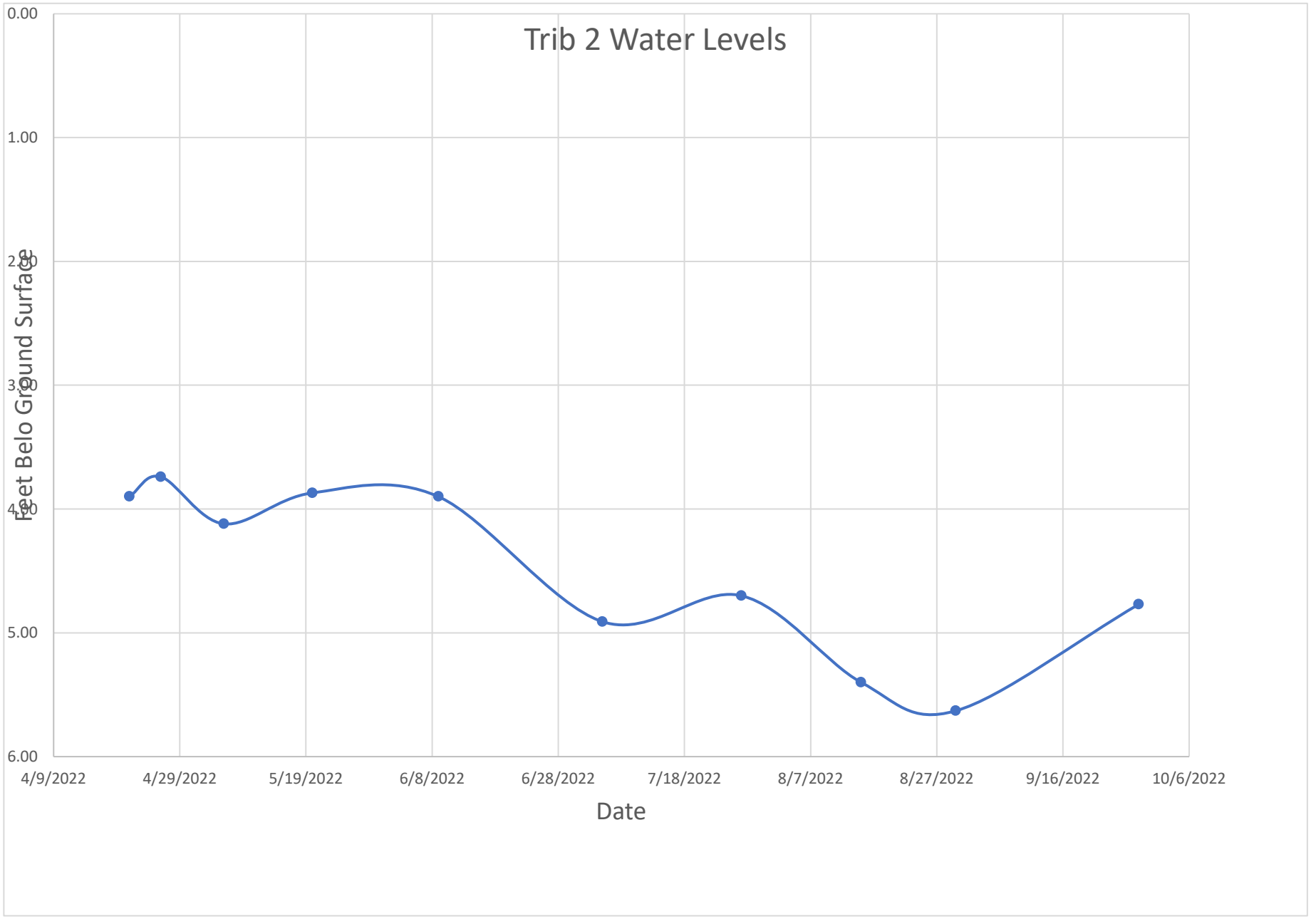
Trib 2 Water Levels
Feet Belo Ground Surface
0.00
1.00
2.00
3.00
4.00
5.00
6.00
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

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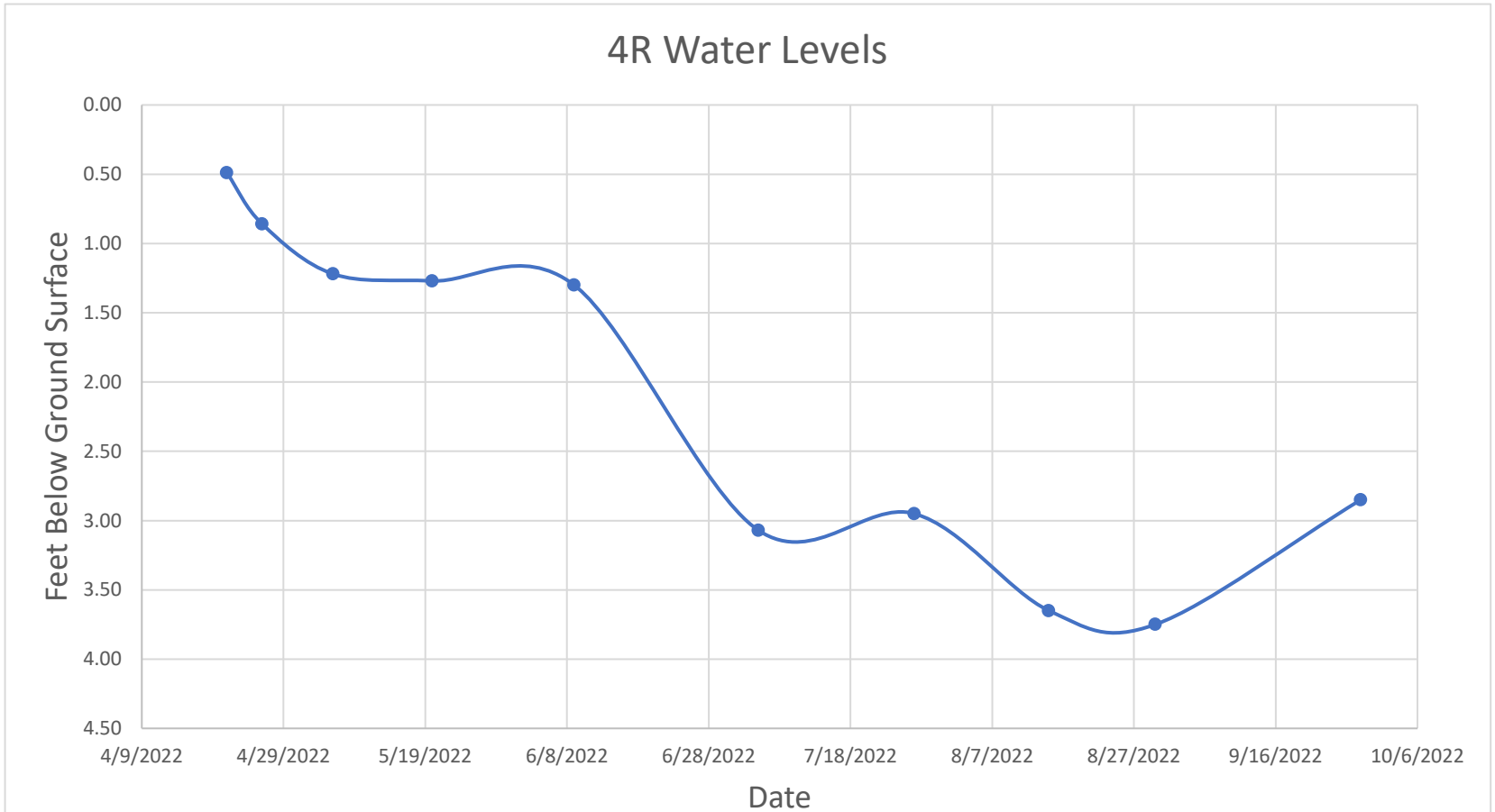
4R Water Levels
Feet Below Ground Surface
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
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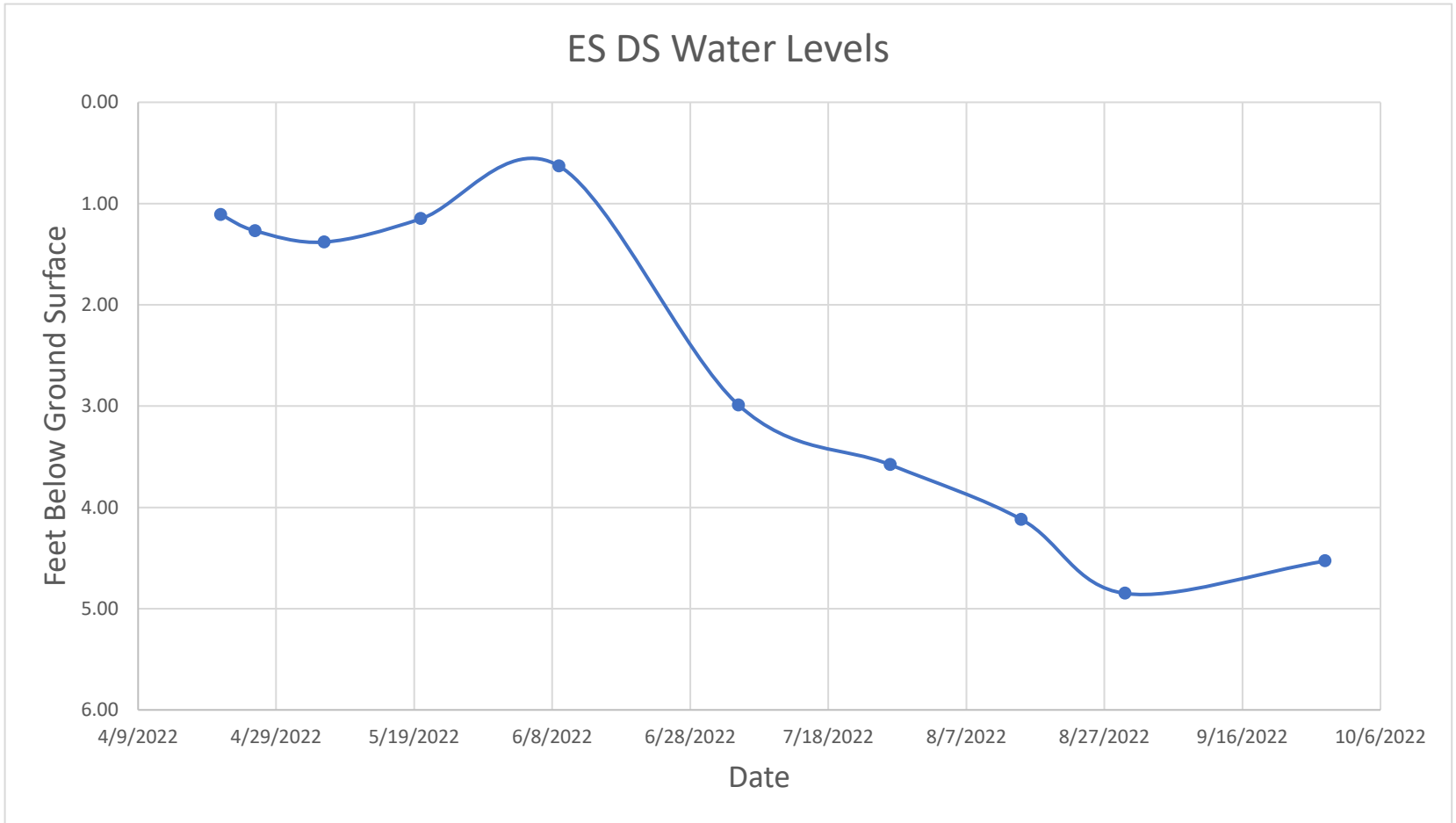
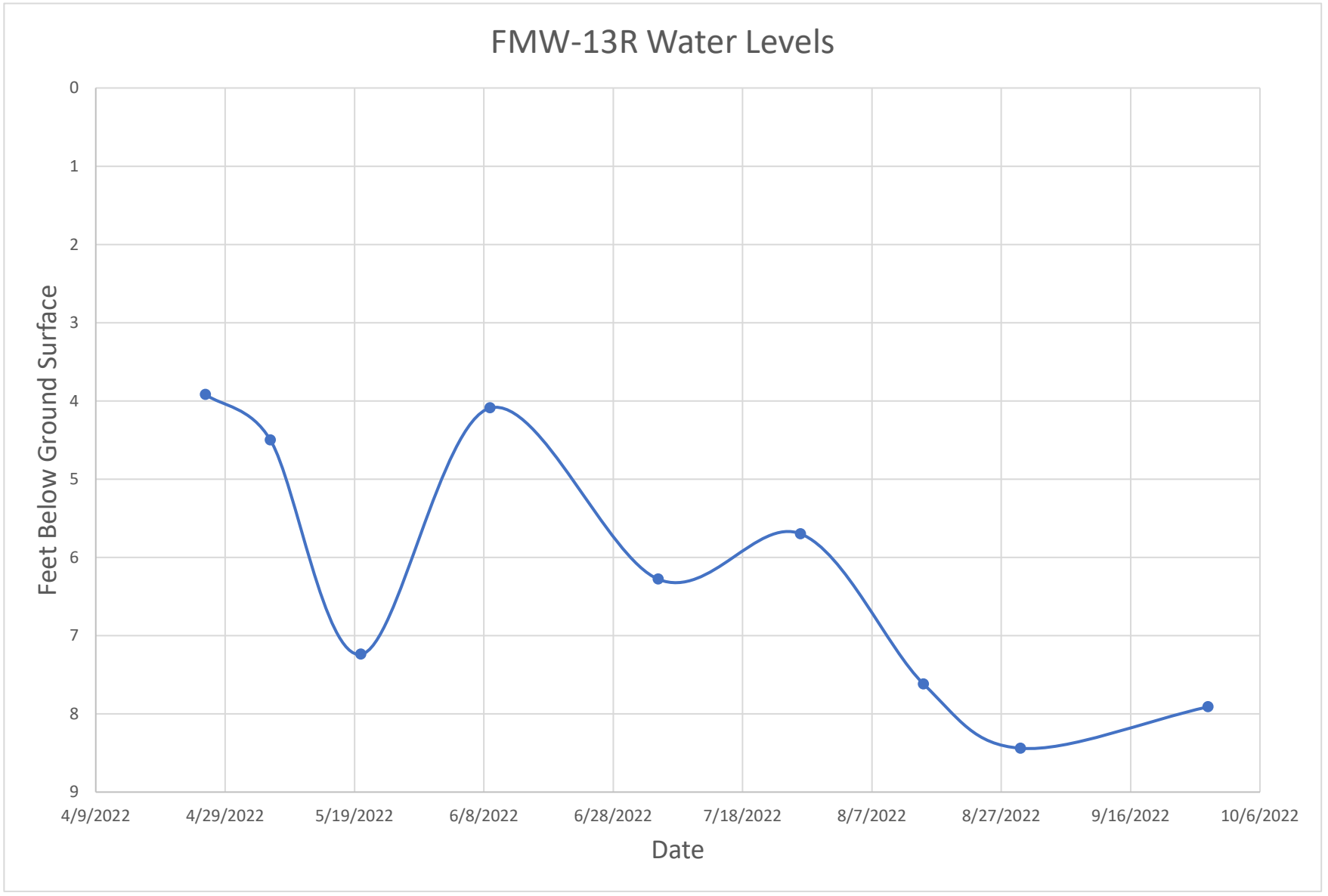
Date

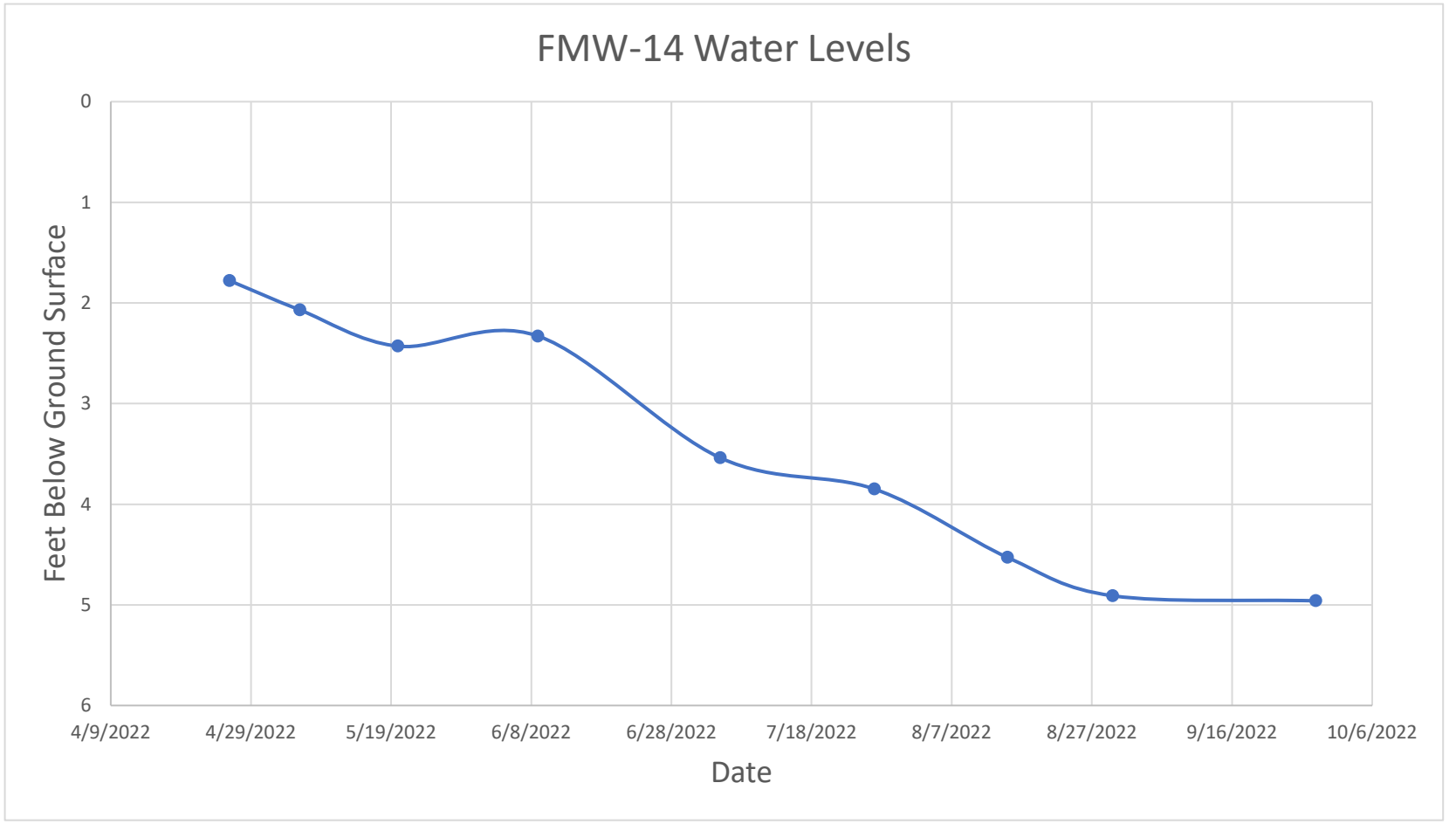
APPENDIX B


ES DS Water Levels
Feet Below Ground Surface
0.00
1.00
2.00
3.00
4.00
5.00
6.00
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

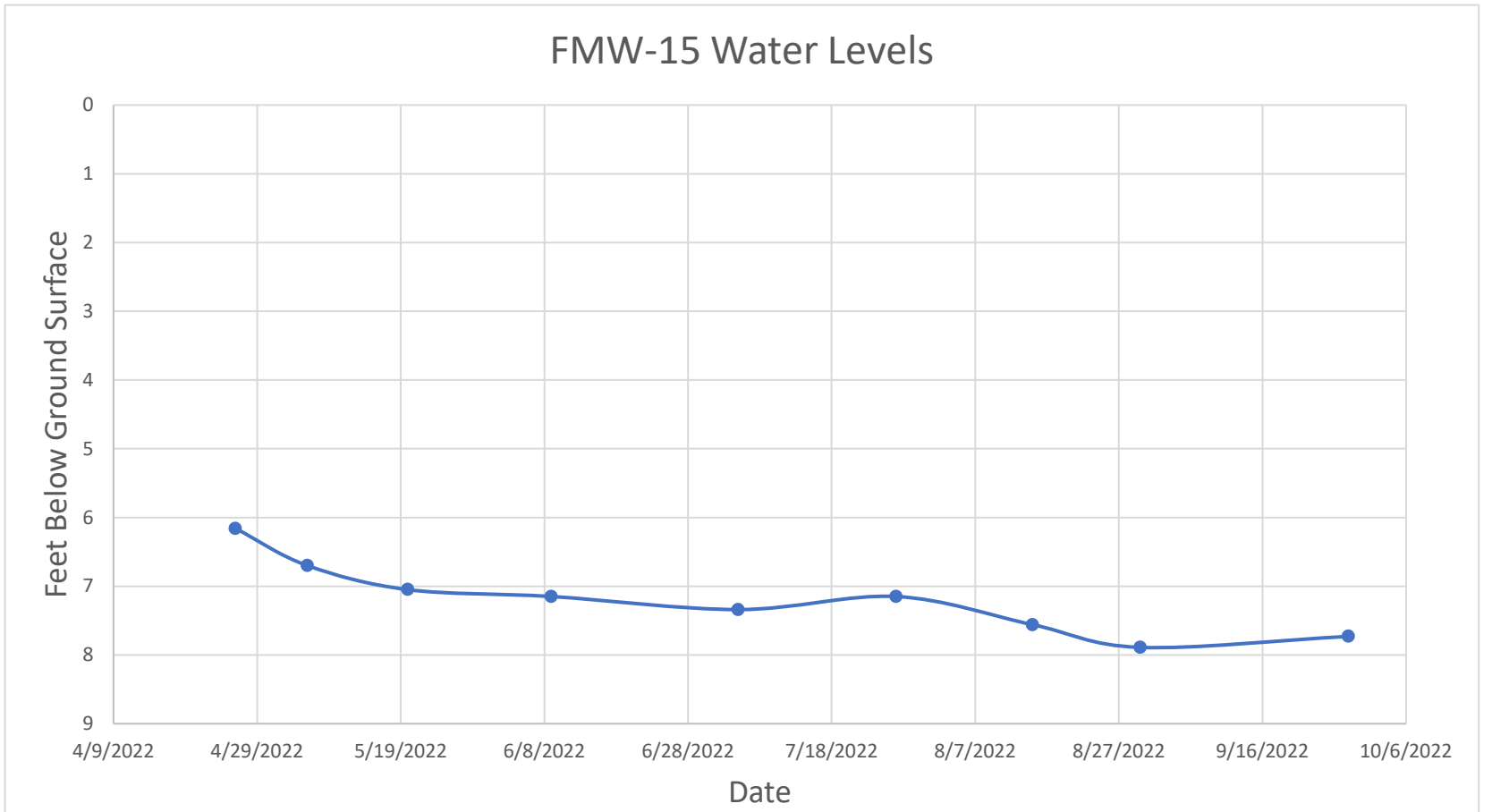
APPENDIX B


FMW-13R Water Levels
Feet Below Ground Surface
0
1
2
3
4
5
6
7
8
9
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

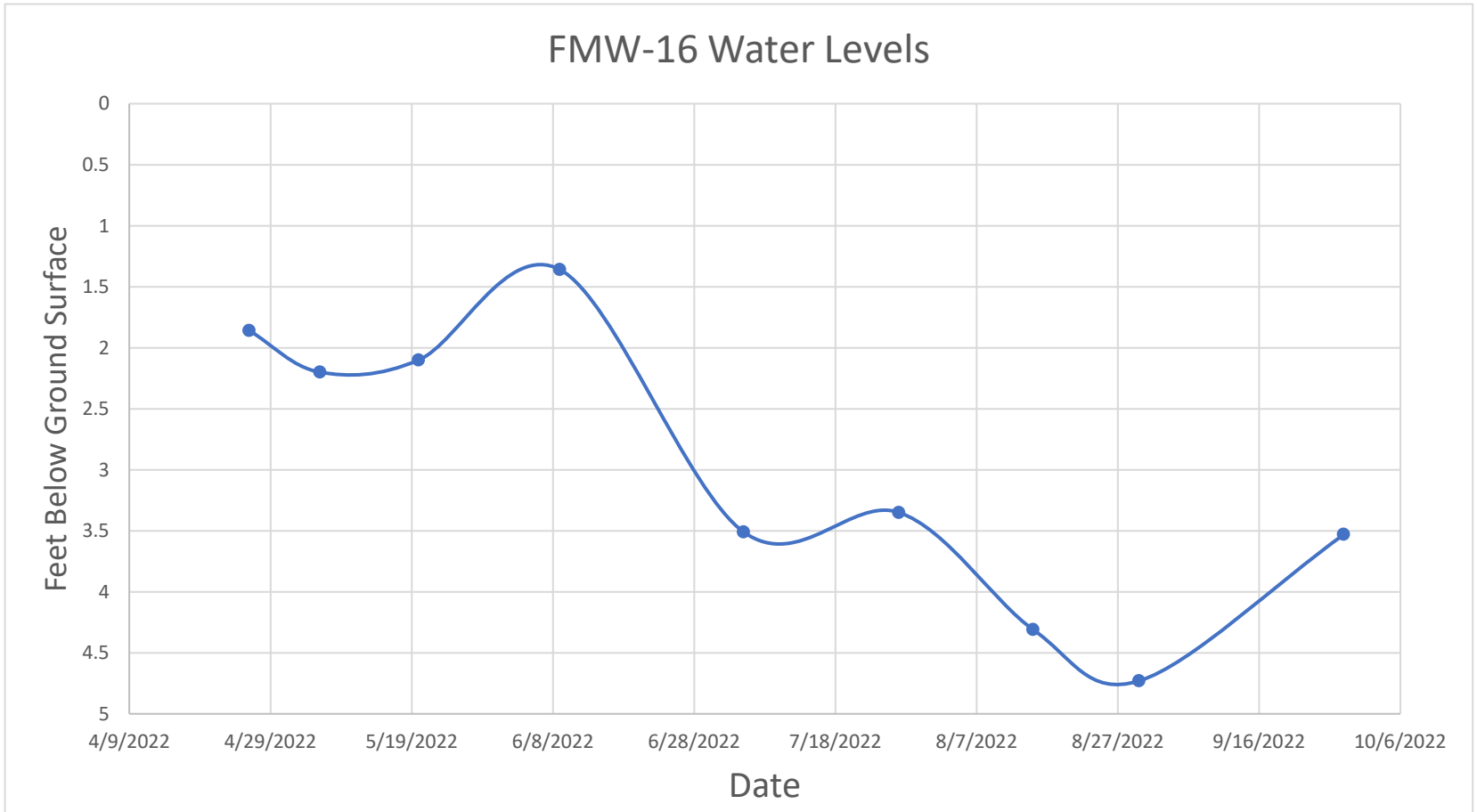
APPENDIX B


FMW-14 Water Levels
Feet Below Ground Surface
0
1
2
3
4
5
6
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

APPENDIX B


FMW-15 Water Levels
Feet Below Ground Surface
0
1
2
3
4
5
6
7
8
9
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

APPENDIX B


FMW-16 Water Levels
Feet Below Ground Surface
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
4/9/2022
4/29/2022
5/19/2022
6/8/2022
6/28/2022
7/18/2022
8/7/2022
8/27/2022
9/16/2022
10/6/2022
Date

APPENDIX C

Technical Report

prepared for:

First Environment, Inc.
10 Park Place Building 1A
Butler NJ, 07405
Attention: David Luer

Report Date: 09/13/2022
Client Project ID: WESTC028 Westchester County Airport
York Project (SDG) No.: 22H1706

Revision No. 1.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 09/13/2022
Client Project ID: WESTC028 Westchester County Airport
York Project (SDG) No.: 22H1706

First Environment, Inc.
10 Park Place Building 1A
Butler NJ, 07405
Attention: David Luer

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 30, 2022 and listed below. The project was identified as your project: **WESTC028 Westchester County Airport**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22H1706-01	E-10	Water	08/30/2022	08/30/2022
22H1706-02	OF-7	Water	08/30/2022	08/30/2022
22H1706-03	OF-7 Grate	Water	08/30/2022	08/30/2022
22H1706-04	MH7006	Water	08/30/2022	08/30/2022
22H1706-05	7019	Water	08/30/2022	08/30/2022
22H1706-06	MH7004	Water	08/30/2022	08/30/2022
22H1706-07	FB 083022	Water	08/30/2022	08/30/2022

General Notes for York Project (SDG) No.: 22H1706

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 09/13/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: E-10 **York Sample ID:** 22H1706-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 10:53 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**18.2**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**77.4**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**46.6**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**250**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:29	WEL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**122**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**880**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:29	WEL
375-95-1	*** Perfluorononanoic acid (PFNA)**	**47.8**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**4.09**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**14.1**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**122**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**22.4**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.46	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**52.3**		ng/L	1.79	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:05	WEL

Sample Information

Client Sample ID: **E-10** **York Sample ID:** **22H1706-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 10:53 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
	Surrogate: M3PFBS	*101 %*		*25-150*						
	Surrogate: M5PFHxA	*103 %*		*25-150*						
	Surrogate: M4PFHpA	*97.8 %*		*25-150*						
	Surrogate: M3PFHxS	*117 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*		*25-150*						
	Surrogate: M6PFDA	*107 %*		*25-150*						
	Surrogate: M7PFUdA	*97.5 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*91.6 %*		*25-150*						
	Surrogate: M2PFTeDA	*109 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*91.4 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*85.0 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*93.3 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*44.8 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*104 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*109 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*161 %*		*25-200*						
	Surrogate: M2-8:2 FTS	*140 %*		*25-200*						
	Surrogate: M9PFNA	*82.3 %*		*25-150*						

Sample Information

Client Sample ID: **OF-7** **York Sample ID:** **22H1706-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:20 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**93.5**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**339**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL

Sample Information

Client Sample ID: OF-7 **York Sample ID:** 22H1706-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:20 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	* **Perfluoroheptanoic acid (PFHpA)**	**143**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
355-46-4	* **Perfluorohexanesulfonic acid (PFHxS)**	**8810**		ng/L	44.6	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:55	WEL
335-67-1	* **Perfluorooctanoic acid (PFOA)**	**2030**		ng/L	44.6	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:55	WEL
1763-23-1	* **Perfluorooctanesulfonic acid (PFOS)**	**41700**	PF-CCV-H, PF-LCS-H	ng/L	1250	25	EPA 537m Certifications:	09/07/2022 13:40	09/09/2022 19:21	ESJ
375-95-1	* **Perfluorononanoic acid (PFNA)**	**505**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
2058-94-8	* **Perfluoroundecanoic acid (PFUnA)**	**46.0**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
2355-31-9	* N-MeFOSAA	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
2991-50-6	* N-EtFOSAA	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**294**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
375-92-8	* **Perfluoro-1-heptanesulfonic acid (PFHpS)**	**159**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
27619-97-2	* **1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**198**		ng/L	44.6	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
39108-34-4	* **1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**40.1**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL
375-22-4	* **Perfluoro-n-butanoic acid (PFBA)**	**109**		ng/L	17.9	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 20:42	WEL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*123 %*	*25-150*
Surrogate: M5PFHxA	*106 %*	*25-150*
Surrogate: M4PFHpA	*129 %*	*25-150*

Sample Information

Client Sample ID: OF-7 **York Sample ID:** 22H1706-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:20 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	*22.0 %*	PFSu-L	*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*98.5 %*		*25-150*						
	Surrogate: M6PFDA	*93.8 %*		*25-150*						
	Surrogate: M7PFUdA	*92.1 %*		*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*86.2 %*		*25-150*						
	Surrogate: M2PFTeDA	*96.9 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*103 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*19.2 %*	PFSu-L	*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*111 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*55.4 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*82.6 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*118 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*149 %*		*25-200*						
	Surrogate: M2-8:2 FTS	*128 %*		*25-200*						
	Surrogate: M9PFNA	*72.9 %*		*25-150*						

Sample Information

Client Sample ID: OF-7 Grate **York Sample ID:** 22H1706-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:35 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**95.1**		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**340**		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**147**		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**1940**		ng/L	45.3	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:35	WEL

Sample Information

Client Sample ID: OF-7 Grate

York Sample ID: 22H1706-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:35 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**2040**		ng/L	45.3	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:35	WEL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**1790**		ng/L	45.3	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:35	WEL
375-95-1	*** Perfluorononanoic acid (PFNA)**	**197**		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
2355-31-9	* N-MeFOSAA	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
2991-50-6	* N-EtFOSAA	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**387**		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**81.4**		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
27619-97-2	*** 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**337**		ng/L	45.3	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
39108-34-4	*** 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**30.1**	PF-CCV-H	ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**119**		ng/L	18.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:21	WEL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*107 %*	*25-150*
Surrogate: M5PFHxA	*113 %*	*25-150*
Surrogate: M4PFHpA	*108 %*	*25-150*
Surrogate: M3PFHxS	*73.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.7 %*	*25-150*
Surrogate: M6PFDA	*103 %*	*25-150*
Surrogate: M7PFUdA	*89.0 %*	*25-150*

Sample Information

Client Sample ID: **OF-7 Grate** **York Sample ID:** **22H1706-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:35 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*89.5 %*		*25-150*						
	Surrogate: M2PFTeDA	*95.8 %*		*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*98.2 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*147 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*106 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*23.2 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*104 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*65.2 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*213 %*	PFSu-H	*25-200*						
	Surrogate: M2-8:2 FTS	*101 %*		*25-200*						
	Surrogate: M9PFNA	*92.2 %*		*25-150*						

Sample Information

Client Sample ID: **MH7006** **York Sample ID:** **22H1706-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:40 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**112**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**305**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**133**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**2160**		ng/L	27.8	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:00	WEL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**1770**		ng/L	27.8	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:00	WEL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**6750**	PF-CCV-H, PF-LCS-H	ng/L	50.0	1	EPA 537m Certifications:	09/07/2022 13:40	09/09/2022 19:34	ESJ

Sample Information

Client Sample ID: **MH7006** **York Sample ID:** **22H1706-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:40 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	* **Perfluorononanoic acid (PFNA)**	**295**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
2058-94-8	* **Perfluoroundecanoic acid (PFUnA)**	**16.3**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
2355-31-9	* N-MeFOSAA	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
2991-50-6	* N-EtFOSAA	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
2706-90-3	* **Perfluoropentanoic acid (PFPeA)**	**301**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
375-92-8	* **Perfluoro-1-heptanesulfonic acid (PFHpS)**	**118**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
27619-97-2	* **1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**188**		ng/L	27.8	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
39108-34-4	* **1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**21.5**	PF-CCV-H	ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL
375-22-4	* **Perfluoro-n-butanoic acid (PFBA)**	**118**		ng/L	11.1	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 21:48	WEL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*110 %*	*25-150*
Surrogate: M5PFHxA	*117 %*	*25-150*
Surrogate: M4PFHpA	*129 %*	*25-150*
Surrogate: M3PFHxS	*79.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*95.7 %*	*25-150*
Surrogate: M6PFDA	*83.3 %*	*25-150*
Surrogate: M7PFUdA	*91.1 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*82.8 %*	*25-150*
Surrogate: M2PFTeDA	*79.7 %*	*10-150*

Sample Information

Client Sample ID: MH7006 **York Sample ID:** 22H1706-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:40 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*99.5 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*59.1 %*		*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*115 %*		*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*14.6 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*111 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*117 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*120 %*		*25-200*						
	Surrogate: M2-8:2 FTS	*114 %*		*25-200*						
	Surrogate: M9PFNA	*94.6 %*		*25-150*						

Sample Information

Client Sample ID: 7019 **York Sample ID:** 22H1706-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:50 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**24.6**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**98.6**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**62.4**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**382**		ng/L	33.3	20	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:13	WEL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**92.1**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**1220**		ng/L	33.3	20	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:13	WEL
375-95-1	*** Perfluorononanoic acid (PFNA)**	**73.6**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
335-76-2	*** Perfluorodecanoic acid (PFDA)**	**8.77**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**78.8**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL

Sample Information

Client Sample ID: 7019 **York Sample ID:** 22H1706-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:50 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
72629-94-8	*** Perfluorotridecanoic acid (PFTrDA)**	**1.89**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**131**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**31.4**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
27619-97-2	*** 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**61.6**		ng/L	4.17	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
39108-34-4	*** 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**33.4**	PF-CCV-H	ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**53.8**		ng/L	1.67	1	EPA 537m Certifications:	09/02/2022 10:11	09/02/2022 23:56	WEL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*116 %*	*25-150*
Surrogate: M5PFHxA	*109 %*	*25-150*
Surrogate: M4PFHpA	*115 %*	*25-150*
Surrogate: M3PFHxS	*92.8 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*97.6 %*	*25-150*
Surrogate: M6PFDA	*117 %*	*25-150*
Surrogate: M7PFUdA	*115 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*100 %*	*25-150*
Surrogate: M2PFTeDA	*119 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*88.5 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*107 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*101 %*	*25-150*

Sample Information

Client Sample ID: 7019 **York Sample ID:** 22H1706-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:50 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*27.9 %*		*10-150*						
	Surrogate: d3-N-MeFOSAA	*116 %*		*25-150*						
	Surrogate: d5-N-EtFOSAA	*102 %*		*25-150*						
	Surrogate: M2-6:2 FTS	*141 %*		*25-200*						
	Surrogate: M2-8:2 FTS	*183 %*		*25-200*						
	Surrogate: M9PFNA	*83.9 %*		*25-150*						

Sample Information

Client Sample ID: MH7004 **York Sample ID:** 22H1706-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:55 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	*** Perfluorobutanesulfonic acid (PFBS)**	**115**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
307-24-4	*** Perfluorohexanoic acid (PFHxA)**	**267**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
375-85-9	*** Perfluoroheptanoic acid (PFHpA)**	**135**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
355-46-4	*** Perfluorohexanesulfonic acid (PFHxS)**	**2530**		ng/L	28.4	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:39	WEL
335-67-1	*** Perfluorooctanoic acid (PFOA)**	**1530**		ng/L	28.4	25	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:39	WEL
1763-23-1	*** Perfluorooctanesulfonic acid (PFOS)**	**12600**	PF-CCV-H, PF-LCS-H	ng/L	1250	25	EPA 537m Certifications:	09/07/2022 13:40	09/09/2022 20:10	ESJ
375-95-1	*** Perfluorononanoic acid (PFNA)**	**384**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
2058-94-8	*** Perfluoroundecanoic acid (PFUnA)**	**34.0**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL

Sample Information

Client Sample ID: **MH7004** **York Sample ID:** **22H1706-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:55 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
2355-31-9	* N-MeFOSAA	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
2991-50-6	* N-EtFOSAA	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
2706-90-3	*** Perfluoropentanoic acid (PFPeA)**	**263**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
375-92-8	*** Perfluoro-1-heptanesulfonic acid (PFHpS)**	**186**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
27619-97-2	*** 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)**	**136**		ng/L	28.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
39108-34-4	*** 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)**	**34.2**	PF-CCV-H	ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL
375-22-4	*** Perfluoro-n-butanoic acid (PFBA)**	**102**		ng/L	11.4	10	EPA 537m Certifications:	09/02/2022 10:11	09/06/2022 22:26	WEL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*96.7 %*	*25-150*
Surrogate: M5PFHxA	*122 %*	*25-150*
Surrogate: M4PFHpA	*127 %*	*25-150*
Surrogate: M3PFHxS	*72.9 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*110 %*	*25-150*
Surrogate: M6PFDA	*92.2 %*	*25-150*
Surrogate: M7PFUdA	*92.6 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*93.9 %*	*25-150*
Surrogate: M2PFTeDA	*101 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*107 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*25.5 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*119 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*24.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*84.4 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*131 %*	*25-150*
Surrogate: M2-6:2 FTS	*181 %*	*25-200*

Sample Information

Client Sample ID: MH7004 **York Sample ID:** 22H1706-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:55 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	*135 %*			*25-200*					
	Surrogate: M9PFNA	*77.7 %*			*25-150*					

Sample Information

Client Sample ID: FB 083022 **York Sample ID:** 22H1706-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:43 am	08/30/2022

PFAS, NYSDEC Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
335-67-1	* Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
1763-23-1	* Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
2706-90-3	* Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL

Sample Information

Client Sample ID: FB 083022 **York Sample ID:** 22H1706-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22H1706	WESTC028 Westchester County Airport	Water	August 30, 2022 11:43 am	08/30/2022

PFAS, NYSDEC Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.81	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
39108-34-4	* 1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL
375-22-4	* Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.92	1	EPA 537m Certifications:	09/02/2022 10:11	09/03/2022 00:35	WEL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*95.3 %*	*25-150*
Surrogate: M5PFHxA	*107 %*	*25-150*
Surrogate: M4PFHpA	*110 %*	*25-150*
Surrogate: M3PFHxS	*93.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*103 %*	*25-150*
Surrogate: M6PFDA	*94.6 %*	*25-150*
Surrogate: M7PFUdA	*91.3 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*83.2 %*	*25-150*
Surrogate: M2PFTeDA	*93.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*85.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*103 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*91.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*21.9 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*79.1 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*93.2 %*	*25-150*
Surrogate: M2-6:2 FTS	*49.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*85.2 %*	*25-200*
Surrogate: M9PFNA	*84.2 %*	*25-150*

Analytical Batch Summary

Batch ID: BI20105 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** ER

YORK Sample ID	Client Sample ID	Preparation Date
22H1706-01	E-10	09/02/22
22H1706-01RE1	E-10	09/02/22
22H1706-02	OF-7	09/02/22
22H1706-02RE1	OF-7	09/02/22
22H1706-03	OF-7 Grate	09/02/22
22H1706-03RE1	OF-7 Grate	09/02/22
22H1706-04	MH7006	09/02/22
22H1706-04RE1	MH7006	09/02/22
22H1706-05	7019	09/02/22
22H1706-05RE1	7019	09/02/22
22H1706-06	MH7004	09/02/22
22H1706-06RE1	MH7004	09/02/22
22H1706-07	FB 083022	09/02/22
BI20105-BLK1	Blank	09/02/22
BI20105-BS1	LCS	09/02/22
BI20105-MS1	Matrix Spike	09/02/22
BI20105-MS2	Matrix Spike	09/02/22
BI20105-MSD1	Matrix Spike Dup	09/02/22
BI20105-MSD2	Matrix Spike Dup	09/02/22

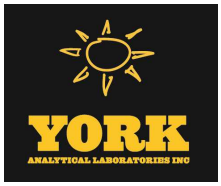
Batch ID: BI20264 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** ER

YORK Sample ID	Client Sample ID	Preparation Date
22H1706-02RE2	OF-7	09/07/22
22H1706-04RE2	MH7006	09/07/22
22H1706-06RE2	MH7004	09/07/22
BI20264-BLK1	Blank	09/07/22
BI20264-BS1	LCS	09/07/22
BI20264-BSD1	LCS Dup	09/07/22

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

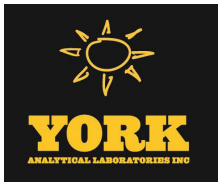
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI20105 - SPE Ext-PFAS-EPA 537.1M											
Blank (BI20105-BLK1)									Prepared & Analyzed: 09/02/2022		
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	*65.4*		*"*	*74.3*		*88.0*	*25-150*				
Surrogate: M5PFHxA	*82.1*		*"*	*80.0*		*103*	*25-150*				
Surrogate: M4PFHpA	*81.2*		*"*	*80.0*		*101*	*25-150*				
Surrogate: M3PFHxS	*73.5*		*"*	*75.7*		*97.2*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*75.0*		*"*	*80.0*		*93.7*	*25-150*				
Surrogate: M6PFDA	*80.2*		*"*	*80.0*		*100*	*25-150*				
Surrogate: M7PFUdA	*76.2*		*"*	*80.0*		*95.3*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*67.9*		*"*	*80.0*		*84.8*	*25-150*				
Surrogate: M2PFTeDA	*71.4*		*"*	*80.0*		*89.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*63.9*		*"*	*80.0*		*79.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*78.0*		*"*	*76.6*		*102*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*74.1*		*"*	*80.0*		*92.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*43.2*		*"*	*80.0*		*54.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*69.0*		*"*	*80.0*		*86.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*68.5*		*"*	*80.0*		*85.6*	*25-150*				
Surrogate: M2-6:2 FTS	*62.0*		*"*	*75.9*		*81.7*	*25-200*				
Surrogate: M2-8:2 FTS	*80.8*		*"*	*76.6*		*105*	*25-200*				
Surrogate: M9PFNA	*71.5*		*"*	*80.0*		*89.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI20105 - SPE Ext-PFAS-EPA 537.1M											
LCS (BI20105-BS1)							Prepared & Analyzed: 09/02/2022				
Perfluorobutanesulfonic acid (PFBS)	73.1	2.00	ng/L	70.8		103	50-130				
Perfluorohexanoic acid (PFHxA)	69.7	2.00	"	80.0		87.1	50-130				
Perfluoroheptanoic acid (PFHpA)	68.2	2.00	"	80.0		85.2	50-130				
Perfluorohexanesulfonic acid (PFHxS)	64.6	2.00	"	72.8		88.7	50-130				
Perfluorooctanoic acid (PFOA)	73.0	2.00	"	80.0		91.2	50-130				
Perfluorooctanesulfonic acid (PFOS)	65.9	2.00	"	74.0		89.0	50-130				
Perfluorononanoic acid (PFNA)	78.7	2.00	"	80.0		98.4	50-130				
Perfluorodecanoic acid (PFDA)	80.5	2.00	"	80.0		101	50-130				
Perfluoroundecanoic acid (PFUnA)	80.2	2.00	"	80.0		100	50-130				
Perfluorododecanoic acid (PFDoA)	74.3	2.00	"	80.0		92.9	50-130				
Perfluorotridecanoic acid (PFTrDA)	85.8	2.00	"	80.0		107	50-130				
Perfluorotetradecanoic acid (PFTA)	70.7	2.00	"	80.0		88.4	50-130				
N-MeFOSAA	78.7	2.00	"	80.0		98.4	50-130				
N-EtFOSAA	71.6	2.00	"	80.0		89.5	50-130				
Perfluoropentanoic acid (PFPeA)	77.0	2.00	"	80.0		96.3	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	84.2	2.00	"	80.0		105	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	65.8	2.00	"	76.4		86.1	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	64.9	2.00	"	77.2		84.1	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	77.0	5.00	"	76.0		101	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	91.0	2.00	"	76.8		119	50-175				
Perfluoro-n-butanoic acid (PFBA)	84.1	2.00	"	80.0		105	50-130				
Surrogate: M3PFBS	*64.2*		"	*74.3*		*86.4*	*25-150*				
Surrogate: M5PFHxA	*77.9*		"	*80.0*		*97.4*	*25-150*				
Surrogate: M4PFHpA	*79.8*		"	*80.0*		*99.8*	*25-150*				
Surrogate: M3PFHxS	*66.5*		"	*75.7*		*87.9*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*73.8*		"	*80.0*		*92.2*	*25-150*				
Surrogate: M6PFDA	*70.5*		"	*80.0*		*88.1*	*25-150*				
Surrogate: M7PFUdA	*67.7*		"	*80.0*		*84.7*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*68.0*		"	*80.0*		*84.9*	*25-150*				
Surrogate: M2PFTeDA	*71.4*		"	*80.0*		*89.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*59.7*		"	*80.0*		*74.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*76.3*		"	*76.6*		*99.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*66.3*		"	*80.0*		*82.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*40.7*		"	*80.0*		*50.8*	*10-150*				
Surrogate: d3-N-MeFOSAA	*62.5*		"	*80.0*		*78.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*59.2*		"	*80.0*		*74.1*	*25-150*				
Surrogate: M2-6:2 FTS	*82.5*		"	*75.9*		*109*	*25-200*				
Surrogate: M2-8:2 FTS	*66.4*		"	*76.6*		*86.6*	*25-200*				
Surrogate: M9PFNA	*62.8*		"	*80.0*		*78.6*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI20105 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike (BI20105-MS1)	*Source sample: 22H1796-01 (Matrix Spike)							Prepared: 09/02/2022 Analyzed: 09/03/2022			
Perfluorobutanesulfonic acid (PFBS)	71.8	1.79	ng/L	63.2	16.6	87.3	25-150				
Perfluorohexanoic acid (PFHxA)	159	1.79	"	71.4	128	42.9	25-150				
Perfluoroheptanoic acid (PFHpA)	93.9	1.79	"	71.4	37.4	79.1	25-150				
Perfluorohexanesulfonic acid (PFHxS)	55.9	1.79	"	65.0	ND	85.9	25-150				
Perfluorooctanoic acid (PFOA)	107	1.79	"	71.4	56.2	71.0	25-150				
Perfluorooctanesulfonic acid (PFOS)	54.1	1.79	"	66.1	ND	81.8	25-150				
Perfluorononanoic acid (PFNA)	59.0	1.79	"	71.4	3.91	77.1	25-150				
Perfluorodecanoic acid (PFDA)	63.9	1.79	"	71.4	ND	89.5	25-150				
Perfluoroundecanoic acid (PFUnA)	63.0	1.79	"	71.4	ND	88.2	25-150				
Perfluorododecanoic acid (PFDoA)	60.4	1.79	"	71.4	ND	84.5	25-150				
Perfluorotridecanoic acid (PFTrDA)	56.0	1.79	"	71.4	ND	78.4	25-150				
Perfluorotetradecanoic acid (PFTA)	51.9	1.79	"	71.4	ND	72.6	25-150				
N-MeFOSAA	55.6	1.79	"	71.4	ND	77.9	25-150				
N-EtFOSAA	62.0	1.79	"	71.4	ND	86.8	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	65.4	1.79	"	71.4	ND	91.5	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	55.4	1.79	"	68.2	ND	81.2	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	51.5	1.79	"	68.9	ND	74.8	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	67.6	4.46	"	67.9	ND	99.6	25-200				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	57.8	1.79	"	68.6	ND	84.3	25-200				
Perfluoro-n-butanoic acid (PFBA)	109	1.79	"	71.4	54.6	76.3	25-150				
Surrogate: M3PFBS	*66.6*		"	*66.4*		*100*	*25-150*				
Surrogate: M5PFHxA	*62.0*		"	*71.4*		*86.8*	*25-150*				
Surrogate: M4PFHpA	*66.8*		"	*71.4*		*93.5*	*25-150*				
Surrogate: M3PFHxS	*72.0*		"	*67.6*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*75.1*		"	*71.4*		*105*	*25-150*				
Surrogate: M6PFDA	*68.9*		"	*71.4*		*96.5*	*25-150*				
Surrogate: M7PFUdA	*66.1*		"	*71.4*		*92.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*65.3*		"	*71.4*		*91.4*	*25-150*				
Surrogate: M2PFTeDA	*76.9*		"	*71.4*		*108*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*50.1*		"	*71.4*		*70.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*85.2*		"	*68.4*		*125*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*10.1*		"	*71.4*		*14.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*65.8*		"	*71.4*		*92.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*66.2*		"	*71.4*		*92.7*	*25-150*				
Surrogate: M2-6:2 FTS	*124*		"	*67.8*		*182*	*25-200*				
Surrogate: M2-8:2 FTS	*140*		"	*68.4*		*205*	*25-200*				
Surrogate: M9PFNA	*70.0*		"	*71.4*		*97.9*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI20105 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike (BI20105-MS2)	*Source sample: 22H1796-01 (Matrix Spike)									Prepared: 09/02/2022 Analyzed: 09/06/2022	
Perfluoropentanoic acid (PFPeA)	242	3.57	ng/L	71.4	217	34.6	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*73.1*		*"*	*71.4*		*102*	*25-150*				
Matrix Spike Dup (BI20105-MSD1)	*Source sample: 22H1796-01 (Matrix Spike Dup)									Prepared: 09/02/2022 Analyzed: 09/03/2022	
Perfluorobutanesulfonic acid (PFBS)	79.1	1.85	ng/L	65.6	16.6	95.3	25-150		9.64	35	
Perfluorohexanoic acid (PFHxA)	167	1.85	"	74.1	128	51.7	25-150		4.74	35	
Perfluoroheptanoic acid (PFHpA)	99.3	1.85	"	74.1	37.4	83.5	25-150		5.59	35	
Perfluorohexanesulfonic acid (PFHxS)	61.5	1.85	"	67.4	ND	91.3	25-150		9.68	35	
Perfluorooctanoic acid (PFOA)	114	1.85	"	74.1	56.2	78.6	25-150		6.77	35	
Perfluorooctanesulfonic acid (PFOS)	61.4	1.85	"	68.5	ND	89.5	25-150		12.6	35	
Perfluorononanoic acid (PFNA)	68.3	1.85	"	74.1	3.91	86.9	25-150		14.7	35	
Perfluorodecanoic acid (PFDA)	66.8	1.85	"	74.1	ND	90.2	25-150		4.50	35	
Perfluoroundecanoic acid (PFUnA)	69.1	1.85	"	74.1	ND	93.3	25-150		9.17	35	
Perfluorododecanoic acid (PFDoA)	70.0	1.85	"	74.1	ND	94.5	25-150		14.8	35	
Perfluorotridecanoic acid (PFTrDA)	65.6	1.85	"	74.1	ND	88.6	25-150		15.8	35	
Perfluorotetradecanoic acid (PFTA)	60.3	1.85	"	74.1	ND	81.4	25-150		15.0	35	
N-MeFOSAA	61.8	1.85	"	74.1	ND	83.5	25-150		10.6	35	
N-EtFOSAA	66.2	1.85	"	74.1	ND	89.3	25-150		6.53	35	
Perfluoro-1-octanesulfonamide (FOSA)	82.9	1.85	"	74.1	ND	112	25-150		23.6	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	59.4	1.85	"	70.7	ND	83.9	25-150		6.97	35	
Perfluoro-1-decanesulfonic acid (PFDS)	51.2	1.85	"	71.5	ND	71.6	25-150		0.682	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	66.2	4.63	"	70.4	ND	94.1	25-200		2.02	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	76.3	1.85	"	71.1	ND	107	25-200		27.6	35	
Perfluoro-n-butanoic acid (PFBA)	118	1.85	"	74.1	54.6	85.0	25-150		7.45	35	
Surrogate: M3PFBS	*65.5*		*"*	*68.8*		*95.2*	*25-150*				
Surrogate: M5PFHxA	*63.4*		*"*	*74.1*		*85.6*	*25-150*				
Surrogate: M4PFHpA	*69.8*		*"*	*74.1*		*94.2*	*25-150*				
Surrogate: M3PFHxS	*80.5*		*"*	*70.1*		*115*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*71.6*		*"*	*74.1*		*96.7*	*25-150*				
Surrogate: M6PFDA	*73.6*		*"*	*74.1*		*99.3*	*25-150*				
Surrogate: M7PFUdA	*66.1*		*"*	*74.1*		*89.3*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*59.7*		*"*	*74.1*		*80.5*	*25-150*				
Surrogate: M2PFTeDA	*67.7*		*"*	*74.1*		*91.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*51.5*		*"*	*74.1*		*69.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*85.1*		*"*	*70.9*		*120*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*8.35*		*"*	*74.1*		*11.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*69.5*		*"*	*74.1*		*93.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*72.9*		*"*	*74.1*		*98.5*	*25-150*				
Surrogate: M2-6:2 FTS	*117*		*"*	*70.3*		*167*	*25-200*				
Surrogate: M2-8:2 FTS	*113*		*"*	*71.0*		*160*	*25-200*				
Surrogate: M9PFNA	*67.1*		*"*	*74.1*		*90.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BI20105 - SPE Ext-PFAS-EPA 537.1M											
Matrix Spike Dup (BI20105-MSD2)	*Source sample: 22H1796-01 (Matrix Spike Dup)								Prepared: 09/02/2022 Analyzed: 09/06/2022		
Perfluoropentanoic acid (PFPeA)	252	3.70	ng/L	74.1	217	46.6	25-150		3.99	35	
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*74.3*		*"*	*74.1*		*100*	*25-150*				
Batch BI20264 - SPE Ext-PFAS-EPA 537.1M											
Blank (BI20264-BLK1)									Prepared: 09/07/2022 Analyzed: 09/09/2022		
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	ng/L								
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*38.2*		*"*	*76.6*		*50.0*	*25-150*				
LCS (BI20264-BS1)									Prepared: 09/07/2022 Analyzed: 09/09/2022		
Perfluorooctanesulfonic acid (PFOS)	194	2.00	ng/L	74.0		262	50-130	High Bias			
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*40.9*		*"*	*76.6*		*53.4*	*25-150*				
LCS Dup (BI20264-BSD1)									Prepared: 09/07/2022 Analyzed: 09/09/2022		
Perfluorooctanesulfonic acid (PFOS)	163	2.00	ng/L	74.0		221	50-130	High Bias	17.1	30	
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*40.2*		*"*	*76.6*		*52.5*	*25-150*				

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-H	The LCS recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to correct analyte reporting.

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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22H1706

Page 1 of 1

YOUR Information	Report To:	Invoice To:
Company: First Environment	Company:	Company:
Address: 10 Park Place Bldg 1A Suite 504 Butler NJ 07405	Address: Same	Address: Same
Phone: 973-334-0003	Phone:	Phone:
Contact: Dave Luer	Contact:	Contact:
E-mail: DLuer@Firstenvironment.com	E-mail:	E-mail:

YOUR Project Number: WESTCH28

YOUR Project Name: westchester county airport

YOUR PO#: WESTCH28

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

David HF Luer

Samples Collected by: (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report
QA Report
NY ASP A Package
NY ASP B Package
CT RCP
CT RCP DQA/DUE
NJDEP Reduced Deliverables
NJDKQP
Standard Excel EDD
EQuIS (Standard)
NYSDEC EQuIS
NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
E-10	GW	8/30/22 1053	PFAS	2x Plastic 125
OF-1		1120		
OF-1 Grate		1135		
MH 7006		1140		2x Plastic 500
7019		1150		
MH 7004		1155		
FB 08/30/22		1143		

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	8/30/22 1244	Client York	8-30-22 12:45	Client York	8-30-22 1925
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					8/30/22 1925 — 2.9 Degrees C

Sample ID York ID Sampling Date Client Matrix		E-10 22H1706-01 8/30/2022 10:53:00 AM Water		OF-7 22H1706-02 8/30/2022 11:20:00 AM Water		OF-7 Grate 22H1706-03 8/30/2022 11:35:00 AM Water		MH7006 22H1706-04 8/30/2022 11:40:00 AM Water		7019 22H1706-05 8/30/2022 11:50:00 AM Water		MH7004 22H1706-06 8/30/2022 11:55:00 AM Water		FB 083022 22H1706-07 8/30/2022 11:43:00 AM Water	
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
PFAS, NYSDEC Target List		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Dilution Factor		10		25		25		25		20		25		1	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4		U	40.1	D	30.1	D	21.5	D	33.4		34.2	D		U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27619-97-2		U	198	D	337	D	188	D	61.6		136	D		U
N-EtFOSAA	2991-50-6		U		U		U		U		U		U		U
N-MeFOSAA	2355-31-9		U		U		U		U		U		U		U
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3		U		U		U		U		U		U		U
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	22.4		159	D	81.4	D	118	D	31.4		186	D		U
Perfluoro-1-octanesulfonamide (FOSA)	754-91-6		U		U		U		U		U		U		U
Perfluorobutanesulfonic acid (PFBS)	375-73-5	18.2		93.5	D	95.1	D	112	D	24.6		115	D		U
Perfluorodecanoic acid (PFDA)	335-76-2	4.09			U		U		U	8.77			U		U
Perfluorododecanoic acid (PFDoA)	307-55-1		U		U		U		U		U		U		U
Perfluoroheptanoic acid (PFHpA)	375-85-9	46.6		143	D	147	D	133	D	62.4		135	D		U
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	250.0	D	8,810	D	1,940	D	2,160	D	382	D	2,530	D		U
Perfluorohexanoic acid (PFHxA)	307-24-4	77.4		339	D	340	D	305	D	98.6		267	D		U
Perfluoro-n-butanoic acid (PFBA)	375-22-4	52.3		109	D	119	D	118	D	53.8		102	D		U
Perfluorononanoic acid (PFNA)	375-95-1	47.8		505	D	197	D	295	D	73.6		384	D		U
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	880	D	41,700	D	1,790	D	6,750		1,220	D	12,600	D		U
Perfluorooctanoic acid (PFOA)	335-67-1	122		2,030	D	2,040	D	1,770	D	92.1		1,530	D		U
Perfluoropentanoic acid (PFPeA)	2706-90-3	122		294	D	387	D	301	D	131		263	D		U
Perfluorotetradecanoic acid (PFTA)	376-06-7		U		U		U		U		U		U		U
Perfluorotridecanoic acid (PFTrDA)	72629-94-8		U		U		U		U	1.89			U		U
Perfluoroundecanoic acid (PFUnA)	2058-94-8	14.1		46.0	D		U	16.3	D	78.8		34.0	D		U
NOTES:															
Any Regulatory Exceedences are color coded by Regulation		1,002		43,730		3,830		8,520		1,312		14,130			
		1,657		54,467		7,504		12,288		2,354		18,316			

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte