AQUA ENVIRONMENTAL LAB
56 Church Hill Road • Newtown, CT 06470 • (203) 270-9973

2nd Sample

Report of Analysis

Name: Water System Solutions Design Inc
PO Box 180
Watertown, CT 06795-0180

Sample Date: 1/5/2022 1:20 PM
Receipt Date: ~~1/5/2022~~ 2:40 PM
Report Date: 1/13/2022
Sample Site: Weston School - Municipal - CT1570132

Sample ID#: 278605
Sample Type: Drinking Water
Sample Source: Well 4
Sampler: ~~RB~~

Parameter	Sample Result	Units	Limits	Method	RL	Analysis Date/Time
Organic Compounds						
PerFluoroButaneSulfonic Acid	ND	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:43
PerFluoroHeptanoic Acid	1.52	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:43
PerFluoroHexaneSulfonic Acid	0.926	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:43
PerFluoroNonanoic Acid	ND	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:43
PerFluoroOctaneSulfonic Acid	6.15	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:43
PerFluoroOctanoic Acid	4.13	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:43

Comments: see attached

ND = Not Detected
* = Above Specified Limit

Report Approved by: _____ CT Lic PH-0787 NY Lic 11706
Lab Director

Technical Report
Perfluoroalkyl Substances (PFAS)

prepared for:

Aqua Environmental Lab
56 Church Hill Road
Newtown CT, 06470
Attention: T. Braun

Report Date: 01/13/2022
Client Project ID: 278604/278605
York Project (SDG) No.: 22A0232

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: 01/13/2022
Client Project ID: 278604/278605
York Project (SDG) No.: 22A0232

Aqua Environmental Lab
56 Church Hill Road
Newtown CT, 06470
Attention: T. Braun

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 January 06, 2022 and listed below. The project was identified as your project: **278604/278605**.

The analyses were conducted utilizing appropriate EPA 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.

Please contact Client Services at 203.325.1371 with any questions regarding this report or e-mail clientservices@yorklab.com.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22A0232-01	278604	Drinking Water	01/05/2022	01/06/2022
22A0232-02	278604-FB	Drinking Water	01/05/2022	01/06/2022
22A0232-03	278605	Drinking Water	01/05/2022	01/06/2022
22A0232-04	278605-FB	Drinking Water	01/05/2022	01/06/2022

General Notes for York Project (SDG) No.: 22A0232

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: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 01/13/2022

Well 3

Sample Information

Client Sample ID: 278604-FB

York Sample ID: 22A0232-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22A0232	278604/278605	Drinking Water	January 5, 2022 1:20 pm	01/06/2022

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
763051-92-9	11CL-PF3OUdS	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:30	
13252-13-6	HFPO-DA (Gen-X)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:30	
919005-14-4	ADONA	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:30	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	*115 %*	*70-130*
Surrogate: 13C-PFDA	*110 %*	*70-130*
Surrogate: 13C-PFHxA	*95.8 %*	*70-130*
Surrogate: M3HFPO-DA	*95.2 %*	*70-130*

Well 4

Sample Information

Client Sample ID: 278605

York Sample ID: 22A0232-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22A0232	278604/278605	Drinking Water	January 5, 2022 1:20 pm	01/06/2022

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**2.62**		**0**	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**1.52**		**0**	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**0.926**		**0**	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
335-67-1	**Perfluorooctanoic acid (PFOA)**	**4.13**		**10**	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:	NELAC-NY12058		01/12/2022 19:43	
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**6.15**		**10**	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:	NELAC-NY12058		01/12/2022 19:43	
375-95-1	Perfluorononanoic acid (PFNA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	

Well 4

Sample Information

Client Sample ID: 278605

York Sample ID: 22A0232-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22A0232	278604/278605	Drinking Water	January 5, 2022 1:20 pm	01/06/2022

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
2355-31-9	N-MeFOSAA	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
2991-50-6	N-EtFOSAA	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
756426-58-1	9CL-PF3ONS	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
763051-92-9	11CL-PF3OUdS	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
13252-13-6	HFPO-DA (Gen-X)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	
919005-14-4	ADONA	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:43	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	*115 %*	*70-130*
Surrogate: 13C-PFDA	*106 %*	*70-130*
Surrogate: 13C-PFHxA	*104 %*	*70-130*
Surrogate: M3HFPO-DA	*97.7 %*	*70-130*

Well 4

Sample Information

Client Sample ID: 278605-FB

York Sample ID: 22A0232-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22A0232	278604/278605	Drinking Water	January 5, 2022 1:20 pm	01/06/2022

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	

WL4

Sample Information

Client Sample ID: 278605-FB

York Sample ID: 22A0232-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22A0232	278604/278605	Drinking Water	January 5, 2022 1:20 pm	01/06/2022

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:	NELAC-NY12058		01/12/2022 19:56	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:	NELAC-NY12058		01/12/2022 19:56	
375-95-1	Perfluorononanoic acid (PFNA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
2355-31-9	N-MeFOSAA	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
2991-50-6	N-EtFOSAA	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
756426-58-1	9CL-PF3ONS	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
763051-92-9	11CL-PF3OUdS	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
13252-13-6	HFPO-DA (Gen-X)	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	
919005-14-4	ADONA	ND		0	ng/L	1.56	EPA 537.1	01/11/2022 12:32	WL
					Certifications:			01/12/2022 19:56	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	*121 %*	*70-130*
Surrogate: 13C-PFDA	*115 %*	*70-130*
Surrogate: 13C-PFHxA	*95.5 %*	*70-130*
Surrogate: M3HFPO-DA	*94.4 %*	*70-130*

Analytical Batch Summary

Batch ID: BA21612 **Preparation Method:** EPA 537.1 SPE DVB **Prepared By:** ER

YORK Sample ID	Client Sample ID	Preparation Date
22A0232-01	278604	01/11/22
22A0232-02	278604-FB	01/11/22
22A0232-03	278605	01/11/22
22A0232-04	278605-FB	01/11/22
BA21612-BLK1	Blank	01/11/22
BA21612-BS1	LCS	01/11/22
BA21612-BS2	LCS	01/11/22
BA21612-DUP1	Duplicate	01/11/22
BA21612-MS1	Matrix Spike	01/11/22

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 BA21612 - EPA 537.1 SPE DVB											
Blank (BA21612-BLK1)									Prepared: 01/11/2022 Analyzed: 01/12/2022		
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	"								
9CL-PF3ONS	ND	2.00	"								
11CL-PF3OUdS	ND	2.00	"								
HFPO-DA (Gen-X)	ND	2.00	"								
ADONA	ND	2.00	"								
Surrogate: d5-N-EtFOSAA	*441*		"	*320*		*138*	*70-130*				
Surrogate: 13C-PFDA	*103*		"	*80.0*		*129*	*70-130*				
Surrogate: 13C-PFHxA	*88.0*		"	*80.0*		*110*	*70-130*				
Surrogate: M3HFPO-DA	*83.7*		"	*80.0*		*105*	*70-130*				
LCS (BA21612-BS1)									Prepared: 01/11/2022 Analyzed: 01/12/2022		
Perfluorobutanesulfonic acid (PFBS)	56.1	2.00	ng/L	70.8		79.2	70-130				
Perfluorohexanoic acid (PFHxA)	70.5	2.00	"	80.0		88.2	70-130				
Perfluoroheptanoic acid (PFHpA)	74.5	2.00	"	80.0		93.1	70-130				
Perfluorohexanesulfonic acid (PFHxS)	69.1	2.00	"	76.0		90.9	70-130				
Perfluorooctanoic acid (PFOA)	79.0	2.00	"	80.0		98.7	70-130				
Perfluorooctanesulfonic acid (PFOS)	74.6	2.00	"	76.8		97.1	70-130				
Perfluorononanoic acid (PFNA)	81.5	2.00	"	80.0		102	70-130				
Perfluorodecanoic acid (PFDA)	82.9	2.00	"	80.0		104	70-130				
Perfluoroundecanoic acid (PFUnA)	84.6	2.00	"	80.0		106	70-130				
Perfluorododecanoic acid (PFDoA)	89.4	2.00	"	80.0		112	70-130				
Perfluorotridecanoic acid (PFTrDA)	87.5	2.00	"	80.0		109	70-130				
Perfluorotetradecanoic acid (PFTA)	81.0	2.00	"	80.0		101	70-130				
N-MeFOSAA	76.9	2.00	"	80.0		96.1	70-130				
N-EtFOSAA	83.0	2.00	"	80.0		104	70-130				
9CL-PF3ONS	68.7	2.00	"	74.8		91.9	60-130				
11CL-PF3OUdS	74.1	2.00	"	75.6		98.0	60-130				
HFPO-DA (Gen-X)	69.5	2.00	"	80.0		86.9	60-130				
ADONA	70.7	2.00	"	75.6		93.5	60-130				
Surrogate: d5-N-EtFOSAA	*433*		"	*320*		*135*	*70-130*				
Surrogate: 13C-PFDA	*99.7*		"	*80.0*		*125*	*70-130*				
Surrogate: 13C-PFHxA	*84.7*		"	*80.0*		*106*	*70-130*				
Surrogate: M3HFPO-DA	*82.8*		"	*80.0*		*103*	*70-130*				

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 BA21612 - EPA 537.1 SPE DVB											
LCS (BA21612-BS2)								Prepared: 01/11/2022 Analyzed: 01/12/2022			
Perfluorobutanesulfonic acid (PFBS)	29.6	2.00	ng/L	35.4		83.5	70-130				
Perfluorohexanoic acid (PFHxA)	35.7	2.00	"	40.0		89.3	70-130				
Perfluoroheptanoic acid (PFHpA)	35.2	2.00	"	40.0		87.9	70-130				
Perfluorohexanesulfonic acid (PFHxS)	33.9	2.00	"	38.0		89.1	70-130				
Perfluorooctanoic acid (PFOA)	37.4	2.00	"	40.0		93.5	70-130				
Perfluorooctanesulfonic acid (PFOS)	33.8	2.00	"	38.4		88.1	70-130				
Perfluorononanoic acid (PFNA)	40.3	2.00	"	40.0		101	70-130				
Perfluorodecanoic acid (PFDA)	37.8	2.00	"	40.0		94.6	70-130				
Perfluoroundecanoic acid (PFUnA)	37.6	2.00	"	40.0		93.9	70-130				
Perfluorododecanoic acid (PFDoA)	43.4	2.00	"	40.0		108	70-130				
Perfluorotridecanoic acid (PFTrDA)	41.0	2.00	"	40.0		103	70-130				
Perfluorotetradecanoic acid (PFTA)	39.3	2.00	"	40.0		98.4	70-130				
N-MeFOSAA	38.2	2.00	"	40.0		95.4	70-130				
N-EtFOSAA	39.5	2.00	"	40.0		98.6	70-130				
9CL-PF3ONS	32.3	2.00	"	37.4		86.5	60-130				
11CL-PF3OUdS	34.4	2.00	"	37.8		90.9	60-130				
HFPO-DA (Gen-X)	34.9	2.00	"	40.0		87.2	60-130				
ADONA	33.2	2.00	"	37.8		87.9	60-130				
Surrogate: d5-N-EtFOSAA	*449*		"	*320*		*140*	*70-130*				
Surrogate: 13C-PFDA	*96.2*		"	*80.0*		*120*	*70-130*				
Surrogate: 13C-PFHxA	*89.7*		"	*80.0*		*112*	*70-130*				
Surrogate: M3HFPO-DA	*85.9*		"	*80.0*		*107*	*70-130*				
Duplicate (BA21612-DUP1)	*Source sample: 22A0296-03 (Duplicate)							Prepared: 01/11/2022 Analyzed: 01/12/2022			
Perfluorobutanesulfonic acid (PFBS)	5.60	1.47	ng/L		4.92				13.1	25	
Perfluorohexanoic acid (PFHxA)	9.23	1.47	"		8.52				7.99	25	
Perfluoroheptanoic acid (PFHpA)	5.80	1.47	"		5.51				5.07	25	
Perfluorohexanesulfonic acid (PFHxS)	3.69	1.47	"		3.15				15.7	25	
Perfluorooctanoic acid (PFOA)	18.0	1.47	"		16.4				9.18	25	
Perfluorooctanesulfonic acid (PFOS)	19.8	1.47	"		18.3				8.18	25	
Perfluorononanoic acid (PFNA)	1.50	1.47	"		1.40				7.20	25	
Perfluorodecanoic acid (PFDA)	0.969	1.47	"		ND					25	
Perfluoroundecanoic acid (PFUnA)	ND	1.47	"		ND					25	
Perfluorododecanoic acid (PFDoA)	ND	1.47	"		ND					25	
Perfluorotridecanoic acid (PFTrDA)	ND	1.47	"		ND					25	
Perfluorotetradecanoic acid (PFTA)	ND	1.47	"		ND					25	
N-MeFOSAA	ND	1.47	"		ND					25	
N-EtFOSAA	ND	1.47	"		ND					25	
9CL-PF3ONS	ND	1.47	"		ND					25	
11CL-PF3OUdS	ND	1.47	"		ND					25	
HFPO-DA (Gen-X)	ND	1.47	"		ND					25	
ADONA	ND	1.47	"		ND					25	
Surrogate: d5-N-EtFOSAA	*308*		"	*235*		*131*	*70-130*				
Surrogate: 13C-PFDA	*71.0*		"	*58.8*		*121*	*70-130*				
Surrogate: 13C-PFHxA	*66.9*		"	*58.8*		*114*	*70-130*				
Surrogate: M3HFPO-DA	*63.1*		"	*58.8*		*107*	*70-130*				

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 BA21612 - EPA 537.1 SPE DVB											
Matrix Spike (BA21612-MS1)	*Source sample: 22A0297-01 (Matrix Spike)							Prepared: 01/11/2022 Analyzed: 01/12/2022			
Perfluorobutanesulfonic acid (PFBS)	52.8	1.67	ng/L	59.0	5.78	79.7	70-130				
Perfluorohexanoic acid (PFHxA)	66.7	1.67	"	66.7	6.86	89.8	70-130				
Perfluoroheptanoic acid (PFHpA)	65.3	1.67	"	66.7	3.66	92.5	70-130				
Perfluorohexanesulfonic acid (PFHxS)	57.4	1.67	"	63.3	2.29	87.0	70-130				
Perfluorooctanoic acid (PFOA)	80.4	1.67	"	66.7	11.4	103	70-130				
Perfluorooctanesulfonic acid (PFOS)	68.2	1.67	"	64.0	9.72	91.4	70-130				
Perfluorononanoic acid (PFNA)	70.3	1.67	"	66.7	ND	106	70-130				
Perfluorodecanoic acid (PFDA)	69.3	1.67	"	66.7	ND	104	70-130				
Perfluoroundecanoic acid (PFUnA)	65.0	1.67	"	66.7	ND	97.6	70-130				
Perfluorododecanoic acid (PFDoA)	66.6	1.67	"	66.7	ND	99.9	70-130				
Perfluorotridecanoic acid (PFTrDA)	62.0	1.67	"	66.7	ND	93.1	70-130				
Perfluorotetradecanoic acid (PFTA)	60.6	1.67	"	66.7	ND	90.9	70-130				
N-MeFOSAA	64.2	1.67	"	66.7	ND	96.3	70-130				
N-EtFOSAA	67.0	1.67	"	66.7	ND	100	70-130				
9CL-PF3ONS	55.9	1.67	"	62.3	ND	89.7	70-130				
11CL-PF3OUdS	54.7	1.67	"	63.0	ND	86.8	70-130				
HFPO-DA (Gen-X)	59.8	1.67	"	66.7	ND	89.7	70-130				
ADONA	59.7	1.67	"	63.0	ND	94.8	50-130				
Surrogate: d5-N-EtFOSAA	*308*		"	*267*		*115*	*70-130*				
Surrogate: 13C-PFDA	*73.9*		"	*66.7*		*111*	*70-130*				
Surrogate: 13C-PFHxA	*67.9*		"	*66.7*		*102*	*70-130*				
Surrogate: M3HFPO-DA	*65.8*		"	*66.7*		*98.7*	*70-130*				

Sample and Data Qualifiers Relating to This Work Order

PFOS-X	The level of PFOS detected in this sample exceeds the NYSDOH Maximum Contaminant Level of 10 ng/L)
PFOA-X	The level of PFOA in this sample exceeds the NYSDOH Maximum Contaminant Level of 10 ng/L)

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.
MCL	This is the Maximum Contaminant Level in ng/L (ppt) establised by the NYSDOH for these compounds wheree an MCL is reported. Exceedences are flagged according.

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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. 22A0232

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company:	Company: AQUA ENVIRONMENTAL LAB	Company:		RUSH - Next Day
Address: AQUA ENVIRONMENTAL LAB 56 Church Hill Rd. Newtown, CT 06470	Address: 56 Church Hill Rd. Newtown, CT 06470	Address:	YOUR Project Name	RUSH - Two Day
Phone:	Phone: 203270 9973	Phone:		RUSH - Three Day
Contact:	Contact: Aqua	Contact:		RUSH - Four Day
E-mail:	E-mail: office1@aquaenv.com	E-mail:	YOUR PO#:	Standard (5-7 Day) X

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.

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

Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York		Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey		QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut	X	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania		NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
O - Oil ⋮ Other	Other				Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
278604	DW	01/05/22	1:20pm PFOAIS	3
278605	DW	01/05/22	1:20pm PFOA's	3
278629	S	1/6/22	7:24Am * Please see analytes Attatched	1

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Mari (Sierra Maxerson) Aqua	1/6/22	1/6/22 1100	
Samples Received by / Company	Date/Time	Samples Relinquished 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
		1/6/22 1134	
Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
		K Blocker	1/6/22 1134

Date/Time: 1/6/22 1140 (KB)

Temp. Received at Lab: 5.1 Degrees C

York Analytcal Laboratories , Inc.

EXCEEDANCE ALERT for Potable Water

York Work Order No.22A0232

The following samples exhibited Levels that exceeded the MCL or other Regulatory Limit

Client:	Client Project	Client Project Number(s)
Aqua Environmental Lab	PFAS in Potable Water	278604/278605

Lab ID	Client Sample	Analyte	Result	Units	MCL Limit, where applicable
22A0232-01	278604	**Perfluorooctanoic acid (PFOA)**	13.0	ng/L	10
22A0232-01	278604	**Perfluorooctanesulfonic acid (PFOS)**	21.4	ng/L	10