

Technical Report

for

Emerging Contaminants

prepared for:

Hampton Bays Water District
18B Ponquoque Ave
Hampton Bays NY, 11946
Attention: Warren Booth

Report Date: 04/30/2021
Client Project ID: UCMR 3
York Project (SDG) No.: 21D0848

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 04/30/2021
Client Project ID: UCMR 3
York Project (SDG) No.: 21D0848

Hampton Bays Water District
18B Ponquoque Ave
Hampton Bays NY, 11946
Attention: Warren Booth

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 April 19, 2021 and listed below. The project was identified as your project: **UCMR 3**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21D0848-01	WELL 1-1	Drinking Water	04/19/2021	04/19/2021
21D0848-02	WELL 1-2	Drinking Water	04/19/2021	04/19/2021
21D0848-03	WELL 1-3	Drinking Water	04/19/2021	04/19/2021
21D0848-04	WELL 2-1	Drinking Water	04/19/2021	04/19/2021
21D0848-05	WELL 2-2	Drinking Water	04/19/2021	04/19/2021
21D0848-06	WELL 3-1	Drinking Water	04/19/2021	04/19/2021
21D0848-07	WELL 3-2	Drinking Water	04/19/2021	04/19/2021
21D0848-08	WELL 3-3	Drinking Water	04/19/2021	04/19/2021
21D0848-09	WELL 1-1	Drinking Water	04/19/2021	04/19/2021
21D0848-10	WELL 1-2	Drinking Water	04/19/2021	04/19/2021
21D0848-11	WELL 1-3	Drinking Water	04/19/2021	04/19/2021
21D0848-12	WELL 2-1	Drinking Water	04/19/2021	04/19/2021
21D0848-13	WELL 2-2	Drinking Water	04/19/2021	04/19/2021
21D0848-14	WELL 3-1	Drinking Water	04/19/2021	04/19/2021
21D0848-15	WELL 3-2	Drinking Water	04/19/2021	04/19/2021
21D0848-16	WELL 3-3	Drinking Water	04/19/2021	04/19/2021
21D0848-17	BLEND 3-1, 3-2, 3-3	Drinking Water	04/19/2021	04/19/2021
21D0848-18	PLANT #1	Drinking Water	04/19/2021	04/19/2021
21D0848-19	PLANT #2	Drinking Water	04/19/2021	04/19/2021
21D0848-20	PLANT #3	Drinking Water	04/19/2021	04/19/2021

General Notes for York Project (SDG) No.: 21D0848

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:



Benjamin Gulizia
Laboratory Director

Date: 04/30/2021





Sample Information

Client Sample ID: WELL 1-1 **York Sample ID:** 21D0848-01

York Project (SDG) No.: 21D0848 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** April 19, 2021 10:35 am **Date Received:** 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
123-91-1	1,4-Dioxane	ND		1	ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854	04/30/2021 13:35	
	Surrogate Recoveries	Result		Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	4.20 %		70-130					

Sample Information

Client Sample ID: WELL 1-2 **York Sample ID:** 21D0848-02

York Project (SDG) No.: 21D0848 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** April 19, 2021 10:20 am **Date Received:** 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
123-91-1	1,4-Dioxane	ND		1	ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854	04/30/2021 12:19	
	Surrogate Recoveries	Result		Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	4.00 %		70-130					

Sample Information

Client Sample ID: WELL 1-3 **York Sample ID:** 21D0848-03

York Project (SDG) No.: 21D0848 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** April 19, 2021 10:05 am **Date Received:** 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
123-91-1	1,4-Dioxane	ND		1	ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854	04/30/2021 12:37	
	Surrogate Recoveries	Result		Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	4.40 %		70-130					



Sample Information

Client Sample ID: WELL 2-1 **York Sample ID:** 21D0848-04
York Project (SDG) No. 21D0848 Client Project ID UCMR 3 Matrix Drinking Water Collection Date/Time April 19, 2021 8:15 am Date Received 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854		04/30/2021 12:57	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	4.00 %		70-130						

Sample Information

Client Sample ID: WELL 2-2 **York Sample ID:** 21D0848-05
York Project (SDG) No. 21D0848 Client Project ID UCMR 3 Matrix Drinking Water Collection Date/Time April 19, 2021 8:30 am Date Received 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854		04/30/2021 13:16	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	4.20 %		70-130						

Sample Information

Client Sample ID: WELL 3-1 **York Sample ID:** 21D0848-06
York Project (SDG) No. 21D0848 Client Project ID UCMR 3 Matrix Drinking Water Collection Date/Time April 19, 2021 9:20 am Date Received 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854		04/30/2021 13:54	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	4.20 %		70-130						



Sample Information

Client Sample ID: WELL 3-2 **York Sample ID:** 21D0848-07
York Project (SDG) No.: 21D0848 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** April 19, 2021 9:10 am **Date Received:** 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854		04/30/2021 14:13	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	3.60 %		70-130						

Sample Information

Client Sample ID: WELL 3-3 **York Sample ID:** 21D0848-08
York Project (SDG) No.: 21D0848 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** April 19, 2021 8:55 am **Date Received:** 04/19/2021

1,4-Dioxane by GC/MS/SIM EPA 522

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 522

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.300	EPA 522	04/30/2021 05:06	AH/
						Certifications:	NELAC-NY10854		04/30/2021 14:32	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	3.80 %		70-130						

Sample Information

Client Sample ID: WELL 1-1 **York Sample ID:** 21D0848-09
York Project (SDG) No.: 21D0848 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** April 19, 2021 10:40 am **Date Received:** 04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
						Certifications:			04/28/2021 03:55	
307-24-4	* Perfluorohexanoic acid (PFHxA)	9.39		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
						Certifications:			04/28/2021 03:55	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	4.99		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
						Certifications:			04/28/2021 03:55	



Sample Information

Client Sample ID: WELL 1-1

York Sample ID: 21D0848-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 10:40 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	15.1		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
335-67-1	Perfluorooctanoic acid (PFOA)	8.88		10		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 03:55	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	53.6	PFOS-X	10		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 03:55	
375-95-1	* Perfluorononanoic acid (PFNA)	6.14		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	
919005-14-4	* ADONA	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 03:55	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

117 %

70-130

Surrogate: 13C-PFDA

128 %

70-130

Surrogate: 13C-PFHxA

106 %

60-130

Surrogate: M3HFPO-DA

108 %

60-130



Sample Information

Client Sample ID: WELL 1-2

York Sample ID: 21D0848-10

<u>York Project (SDG) No.</u> 21D0848	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> April 19, 2021 10:25 am	<u>Date Received</u> 04/19/2021
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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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.95		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
307-24-4	* Perfluorohexanoic acid (PFHxA)	11.0		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	6.19		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	37.0		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
335-67-1	Perfluorooctanoic acid (PFOA)	11.7	PFOA-X	10		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 04:22	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	86.1	PFOS-X	10		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 04:22	
375-95-1	* Perfluorononanoic acid (PFNA)	7.34		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	
919005-14-4	* ADONA	ND		0		ng/L	2.70	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:22	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA	119 %	70-130
Surrogate: 13C-PFDA	129 %	70-130
Surrogate: 13C-PFHxA	117 %	60-130
Surrogate: M3HFPO-DA	117 %	60-130



Sample Information

Client Sample ID: WELL 1-3

York Sample ID: 21D0848-11

<u>York Project (SDG) No.</u> 21D0848	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> April 19, 2021 10:10 am	<u>Date Received</u> 04/19/2021
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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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	3.23		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
307-24-4	* Perfluorohexanoic acid (PFHxA)	8.86		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	5.95		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	23.1		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
335-67-1	Perfluorooctanoic acid (PFOA)	7.86		10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 04:48	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.9	PFOS-X	10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 04:48	
375-95-1	* Perfluorononanoic acid (PFNA)	6.35		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	
919005-14-4	* ADONA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 04:48	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	113 %	70-130
Surrogate: 13C-PFDA	127 %	70-130
Surrogate: 13C-PFHxA	106 %	60-130
Surrogate: M3HFPO-DA	109 %	60-130



Sample Information

Client Sample ID: WELL 2-1

York Sample ID: 21D0848-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 8:20 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 05:15	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 05:15	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	
919005-14-4	* ADONA	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 05:15	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

124 %

70-130

Surrogate: 13C-PFDA

128 %

70-130

Surrogate: 13C-PFHxA

114 %

60-130

Surrogate: M3HFPO-DA

118 %

60-130



Sample Information

Client Sample ID: WELL 2-2

York Sample ID: 21D0848-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 8:35 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 06:08	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 06:08	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	
919005-14-4	* ADONA	ND		0		ng/L	3.07	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 06:08	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

126 %

70-130

Surrogate: 13C-PFDA

119 %

70-130

Surrogate: 13C-PFHxA

129 %

60-130

Surrogate: M3HFPO-DA

123 %

60-130



Sample Information

Client Sample ID: WELL 3-1

York Sample ID: 21D0848-14

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 9:25 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 07:28	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 07:28	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	
919005-14-4	* ADONA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:28	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

125 %

70-130

Surrogate: 13C-PFDA

129 %

70-130

Surrogate: 13C-PFHxA

110 %

60-130

Surrogate: M3HFPO-DA

114 %

60-130



Sample Information

Client Sample ID: WELL 3-2

York Sample ID: 21D0848-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 9:15 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	5.27		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 07:54	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	9.60		10		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 07:54	
375-95-1	* Perfluorononanoic acid (PFNA)	10.8		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	
919005-14-4	* ADONA	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 07:54	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

127 %

70-130

Surrogate: 13C-PFDA

126 %

70-130

Surrogate: 13C-PFHxA

116 %

60-130

Surrogate: M3HFPO-DA

118 %

60-130



Sample Information

Client Sample ID: WELL 3-3

York Sample ID: 21D0848-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 9:00 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 08:21	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 08:21	
375-95-1	* Perfluorononanoic acid (PFNA)	5.53		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	
919005-14-4	* ADONA	ND		0		ng/L	3.16	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:21	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

123 %

70-130

Surrogate: 13C-PFDA

129 %

70-130

Surrogate: 13C-PFHxA

108 %

60-130

Surrogate: M3HFPO-DA

115 %

60-130



Sample Information

Client Sample ID: BLEND 3-1, 3-2, 3-3

York Sample ID: 21D0848-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 9:05 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 08:47	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	4.03		10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 08:47	
375-95-1	* Perfluorononanoic acid (PFNA)	5.16		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	
919005-14-4	* ADONA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 08:47	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

125 %

70-130

Surrogate: 13C-PFDA

127 %

70-130

Surrogate: 13C-PFHxA

116 %

60-130

Surrogate: M3HFPO-DA

121 %

60-130



Sample Information

Client Sample ID: PLANT #1

York Sample ID: 21D0848-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 10:25 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 09:14	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 09:14	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	
919005-14-4	* ADONA	ND		0		ng/L	3.33	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:14	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA	126 %	70-130
Surrogate: 13C-PFDA	125 %	70-130
Surrogate: 13C-PFHxA	108 %	60-130
Surrogate: M3HFPO-DA	115 %	60-130



Sample Information

Client Sample ID: PLANT #2

York Sample ID: 21D0848-19

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 8:35 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 09:41	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications: NELAC-NY12058		04/28/2021 09:41	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	
919005-14-4	* ADONA	ND		0		ng/L	3.38	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 09:41	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA	124 %	70-130
Surrogate: 13C-PFDA	120 %	70-130
Surrogate: 13C-PFHxA	112 %	60-130
Surrogate: M3HFPO-DA	123 %	60-130



Sample Information

Client Sample ID: PLANT #3

York Sample ID: 21D0848-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21D0848

UCMR 3

Drinking Water

April 19, 2021 9:25 am

04/19/2021

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		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal.	Analyst
				MCL, ng/L						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 10:07	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:	NELAC-NY12058	04/28/2021 10:07	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	
919005-14-4	* ADONA	ND		0		ng/L	3.03	EPA 537.1	04/23/2021 11:19	WL
							Certifications:		04/28/2021 10:07	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA	126 %	70-130
Surrogate: 13C-PFDA	125 %	70-130
Surrogate: 13C-PFHxA	109 %	60-130
Surrogate: M3HFPO-DA	120 %	60-130



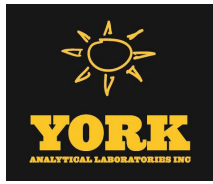
Analytical Batch Summary

Batch ID: BD11303 **Preparation Method:** EPA 537.1 SPE DVB **Prepared By:** SG

YORK Sample ID	Client Sample ID	Preparation Date
21D0848-09	WELL 1-1	04/23/21
21D0848-10	WELL 1-2	04/23/21
21D0848-11	WELL 1-3	04/23/21
21D0848-12	WELL 2-1	04/23/21
21D0848-13	WELL 2-2	04/23/21
21D0848-14	WELL 3-1	04/23/21
21D0848-15	WELL 3-2	04/23/21
21D0848-16	WELL 3-3	04/23/21
21D0848-17	BLEND 3-1, 3-2, 3-3	04/23/21
21D0848-18	PLANT #1	04/23/21
21D0848-19	PLANT #2	04/23/21
21D0848-20	PLANT #3	04/23/21
BD11303-BLK1	Blank	04/23/21
BD11303-BS1	LCS	04/23/21
BD11303-BS2	LCS	04/23/21
BD11303-DUP1	Duplicate	04/23/21
BD11303-MS1	Matrix Spike	04/23/21

Batch ID: BD11652 **Preparation Method:** EPA 522 **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21D0848-01	WELL 1-1	04/30/21
21D0848-02	WELL 1-2	04/30/21
21D0848-03	WELL 1-3	04/30/21
21D0848-04	WELL 2-1	04/30/21
21D0848-05	WELL 2-2	04/30/21
21D0848-06	WELL 3-1	04/30/21
21D0848-07	WELL 3-2	04/30/21
21D0848-08	WELL 3-3	04/30/21
BD11652-BLK1	Blank	04/30/21
BD11652-BS1	LCS	04/30/21
BD11652-BS2	LCS	04/30/21



Semivolatile Organic Compounds by GC/MS/SIM - 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 BD11652 - EPA 522											
Blank (BD11652-BLK1)						Prepared & Analyzed: 04/30/2021					
1,4-Dioxane	ND	0.200	ug/L								
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>0.190</i>		<i>ug/mL</i>	<i>5.00</i>		<i>3.80</i>	<i>70-130</i>				
LCS (BD11652-BS1)						Prepared & Analyzed: 04/30/2021					
1,4-Dioxane	6.16	0.200	ug/L	5.00		123	70-130				
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>0.260</i>		<i>ug/mL</i>	<i>5.00</i>		<i>5.20</i>	<i>70-130</i>				
LCS (BD11652-BS2)						Prepared & Analyzed: 04/30/2021					
1,4-Dioxane	11.9	0.200	ug/L	10.0		119	70-130				
<i>Surrogate: 1,4-Dioxane-d8</i>	<i>0.210</i>		<i>ug/mL</i>	<i>5.00</i>		<i>4.20</i>	<i>70-130</i>				



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
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Batch BD11303 - EPA 537.1 SPE DVB

Blank (BD11303-BLK1)

Prepared: 04/23/2021 Analyzed: 04/27/2021

Perfluorobutanesulfonic acid (PFBS)	ND	4.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	4.00	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	4.00	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTriDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
9CL-PF3ONS	ND	4.00	"								
11CL-PF3OUdS	ND	4.00	"								
HFPO-DA (Gen-X)	ND	4.00	"								
ADONA	ND	4.00	"								
Surrogate: d5-N-EtFOSAA	368		"	320		115	70-130				
Surrogate: 13C-PFDA	102		"	80.0		127	70-130				
Surrogate: 13C-PFHxA	87.7		"	80.0		110	60-130				
Surrogate: M3HFPO-DA	90.8		"	80.0		114	60-130				

LCS (BD11303-BS1)

Prepared: 04/23/2021 Analyzed: 04/28/2021

Perfluorobutanesulfonic acid (PFBS)	34.0	4.00	ng/L	35.4		96.1	70-130				
Perfluorohexanoic acid (PFHxA)	43.7	4.00	"	40.0		109	70-130				
Perfluoroheptanoic acid (PFHpA)	46.2	4.00	"	40.0		115	70-130				
Perfluorohexanesulfonic acid (PFHxS)	39.2	4.00	"	38.0		103	70-130				
Perfluorooctanoic acid (PFOA)	43.5	4.00	"	40.0		109	70-130				
Perfluorooctanesulfonic acid (PFOS)	44.2	4.00	"	38.4		115	70-130				
Perfluorononanoic acid (PFNA)	40.4	4.00	"	40.0		101	70-130				
Perfluorodecanoic acid (PFDA)	52.0	4.00	"	40.0		130	70-130				
Perfluoroundecanoic acid (PFUnA)	46.1	4.00	"	40.0		115	70-130				
Perfluorododecanoic acid (PFDoA)	48.5	4.00	"	40.0		121	70-130				
Perfluorotridecanoic acid (PFTriDA)	40.8	4.00	"	40.0		102	70-130				
Perfluorotetradecanoic acid (PFTA)	32.4	4.00	"	40.0		80.9	70-130				
N-MeFOSAA	41.2	4.00	"	40.0		103	70-130				
N-EtFOSAA	38.3	4.00	"	40.0		95.8	70-130				
9CL-PF3ONS	40.9	4.00	"	37.4		109	60-130				
11CL-PF3OUdS	40.8	4.00	"	37.8		108	60-130				
HFPO-DA (Gen-X)	45.2	4.00	"	40.0		113	60-130				
ADONA	39.6	4.00	"	37.8		105	60-130				
Surrogate: d5-N-EtFOSAA	351		"	320		110	70-130				
Surrogate: 13C-PFDA	103		"	80.0		128	70-130				
Surrogate: 13C-PFHxA	83.1		"	80.0		104	60-130				
Surrogate: M3HFPO-DA	87.4		"	80.0		109	60-130				



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
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Batch BD11303 - EPA 537.1 SPE DVB

LCS (BD11303-BS2)

Prepared: 04/23/2021 Analyzed: 04/28/2021

Perfluorobutanesulfonic acid (PFBS)	4.39	4.00	ng/L	3.54		124	70-130				
Perfluorohexanoic acid (PFHxA)	5.88	4.00	"	4.00		147	50-150				
Perfluoroheptanoic acid (PFHpA)	5.37	4.00	"	4.00		134	50-150				
Perfluorohexanesulfonic acid (PFHxS)	4.90	4.00	"	3.80		129	70-130				
Perfluorooctanoic acid (PFOA)	5.39	4.00	"	4.00		135	50-150				
Perfluorooctanesulfonic acid (PFOS)	5.35	4.00	"	3.84		139	50-150				
Perfluorononanoic acid (PFNA)	5.05	4.00	"	4.00		126	70-130				
Perfluorodecanoic acid (PFDA)	4.92	4.00	"	4.00		123	50-150				
Perfluoroundecanoic acid (PFUnA)	5.44	4.00	"	4.00		136	50-150				
Perfluorododecanoic acid (PFDoA)	5.73	4.00	"	4.00		143	50-150				
Perfluorotridecanoic acid (PFTriDA)	4.78	4.00	"	4.00		120	70-130				
Perfluorotetradecanoic acid (PFTA)	4.06	4.00	"	4.00		101	70-130				
N-MeFOSAA	5.16	4.00	"	4.00		129	70-130				
N-EtFOSAA	5.00	4.00	"	4.00		125	70-130				
9CL-PF3ONS	4.90	4.00	"	3.74		131	50-150				
11CL-PF3OUdS	4.88	4.00	"	3.78		129	60-130				
HFPO-DA (Gen-X)	5.61	4.00	"	4.00		140	50-150				
ADONA	4.90	4.00	"	3.78		130	60-130				
Surrogate: d5-N-EtFOSAA	388		"	320		121	70-130				
Surrogate: 13C-PFDA	104		"	80.0		130	70-130				
Surrogate: 13C-PFHxA	94.4		"	80.0		118	60-130				
Surrogate: M3HFPO-DA	96.7		"	80.0		121	60-130				

Duplicate (BD11303-DUP1)

*Source sample: 21D0848-13 (WELL 2-2)

Prepared: 04/23/2021 Analyzed: 04/28/2021

Perfluorobutanesulfonic acid (PFBS)	ND	3.23	ng/L		ND						25
Perfluorohexanoic acid (PFHxA)	ND	3.23	"		ND						25
Perfluoroheptanoic acid (PFHpA)	ND	3.23	"		ND						25
Perfluorohexanesulfonic acid (PFHxS)	ND	3.23	"		ND						25
Perfluorooctanoic acid (PFOA)	ND	3.23	"		ND						25
Perfluorooctanesulfonic acid (PFOS)	ND	3.23	"		ND						25
Perfluorononanoic acid (PFNA)	ND	3.23	"		ND						25
Perfluorodecanoic acid (PFDA)	ND	3.23	"		ND						25
Perfluoroundecanoic acid (PFUnA)	ND	3.23	"		ND						25
Perfluorododecanoic acid (PFDoA)	ND	3.23	"		ND						25
Perfluorotridecanoic acid (PFTriDA)	ND	3.23	"		ND						25
Perfluorotetradecanoic acid (PFTA)	ND	3.23	"		ND						25
N-MeFOSAA	ND	3.23	"		ND						25
N-EtFOSAA	ND	3.23	"		ND						25
9CL-PF3ONS	ND	3.23	"		ND						25
11CL-PF3OUdS	ND	3.23	"		ND						25
HFPO-DA (Gen-X)	ND	3.23	"		ND						25
ADONA	ND	3.23	"		ND						25
Surrogate: d5-N-EtFOSAA	295		"	258		114	70-130				
Surrogate: 13C-PFDA	82.1		"	64.5		127	70-130				
Surrogate: 13C-PFHxA	69.0		"	64.5		107	60-130				
Surrogate: M3HFPO-DA	70.5		"	64.5		109	60-130				



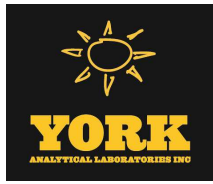
PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result	%REC			Limit			

Batch BD11303 - EPA 537.1 SPE DVB

Matrix Spike (BD11303-MS1)	*Source sample: 21D0848-12 (WELL 2-1)						Prepared: 04/23/2021 Analyzed: 04/28/2021						
Perfluorobutanesulfonic acid (PFBS)	52.7	2.94	ng/L	52.1	ND	101	70-130						
Perfluorohexanoic acid (PFHxA)	70.5	2.94	"	58.8	ND	120	70-130						
Perfluoroheptanoic acid (PFHpA)	69.1	2.94	"	58.8	ND	117	70-130						
Perfluorohexanesulfonic acid (PFHxS)	60.1	2.94	"	55.9	ND	107	70-130						
Perfluorooctanoic acid (PFOA)	67.4	2.94	"	58.8	ND	115	70-130						
Perfluorooctanesulfonic acid (PFOS)	64.9	2.94	"	56.5	ND	115	70-130						
Perfluorononanoic acid (PFNA)	62.3	2.94	"	58.8	ND	106	70-130						
Perfluorodecanoic acid (PFDA)	78.3	2.94	"	58.8	ND	133	70-130	High Bias					
Perfluoroundecanoic acid (PFUnA)	73.3	2.94	"	58.8	ND	125	70-130						
Perfluorododecanoic acid (PFDoA)	73.4	2.94	"	58.8	ND	125	70-130						
Perfluorotridecanoic acid (PFTriDA)	62.0	2.94	"	58.8	ND	105	70-130						
Perfluorotetradecanoic acid (PFTA)	45.9	2.94	"	58.8	ND	78.0	70-130						
N-MeFOSAA	64.7	2.94	"	58.8	ND	110	70-130						
N-EtFOSAA	61.3	2.94	"	58.8	ND	104	70-130						
9CL-PF3ONS	62.2	2.94	"	55.0	ND	113	70-130						
11CL-PF3OUdS	70.2	2.94	"	55.6	ND	126	70-130						
HFPO-DA (Gen-X)	73.5	2.94	"	58.8	ND	125	70-130						
ADONA	60.8	2.94	"	55.6	ND	109	50-130						
Surrogate: d5-N-EtFOSAA	280		"	235		119	70-130						
Surrogate: 13C-PFDA	75.2		"	58.8		128	70-130						
Surrogate: 13C-PFHxA	71.9		"	58.8		122	60-130						
Surrogate: M3HFPO-DA	74.0		"	58.8		126	60-130						





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) established by the NYSDOH for these compounds where an MCL is reported. Exceedences are flagged according.



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YOUR INFORMATION

Hampton Bays Water District	Report To:	Invoice To:	Turn-Around Time
188 Ponquogue Ave. / PO Box 1013	Hampton Bays Water District	Hampton Bays Water District	RUSH - Next Day
Hampton Bays, N.Y. 11946	PO Box 1013	PO Box 1013	RUSH - Two Day
(631) 728-0179 ext. 4213	Hampton Bays, N.Y. 11946	Hampton Bays N.Y. 11946	RUSH - Three Day
Warren Booth	(631) 728-0179	(631) 728-0179 ext. 4210	RUSH - Four Day
wbooth@southamptontownny.gov	Warren Booth	Stella Michaels	Standard (5-7 Day) <input checked="" type="checkbox"/>
	wbooth@southamptontownny.gov	smichaels@southamptontownny.gov	

YORK Project No. **21D0848**

Page **2** of **4**

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.

YOUR PO#: UCMR 3

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

Report / EDD Type (circle selections)
 Summary Report Standard Excel EDD
 QA Report EQUIS (Standard)
 NY ASP A Package NYSDCE EQUIS
 NY ASP B Package NJDEP SRP HazSite
 Deliverables Other:
 NJDKQP

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
Well 1-1	GW	4-19-21 / 10:40	PFAS	250 mL PLASTIC
Well 1-2	GW	4-19-21 / 10:25	PFAS	250 mL PLASTIC
Well 1-3	GW	4-19-21 / 10:10	PFAS	250 mL PLASTIC
Well 2-1	GW	4-19-21 / 8:20	PFAS	250 mL PLASTIC
Well 2-2	GW	4-19-21 / 8:35	PFAS	250 mL PLASTIC
Well 3-1	GW	4-19-21 / 9:25	PFAS	250 mL PLASTIC
Well 3-2	GW	4-19-21 / 9:15	PFAS	250 mL PLASTIC
Well 3-3	GW	4-19-21 / 9:00	PFAS	250 mL PLASTIC
BLEND 3-1, 3-2, 3-3	GW	4-19-21 / 9:05	PFAS	250 mL PLASTIC

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

1. Samples Relinquished by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Patty Eldo	4-19-21 12:51	Patty Eldo YORK	4/19/21 1:57 PM
Warren Booth	4/19/21 1:50 PM		
3. Samples Received by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Warren Booth	4/19/21		
4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
		Warren Booth	4/19/21 17:05
			Temp. Received at Lab 1.2 Degrees C



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Field Chain-of-Custody Record

YORK Project No.
 210848

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.

Page of

YOUR INFORMATION		Report To:		Invoice To:		Turn-Around Time	
Hampton Bays Water District 188 Ponquogue Ave. / PO Box 1013 Hampton Bays, N.Y. 11946 (631) 728-0179 ext: 4213 Warren Booth wbooth@southamptonwny.gov		Hampton Bays Water District PO Box 1013 Hampton Bays N.Y. 11946 (631) 728-0179 ext: 4210 Stella Michaels smichaels@southamptonwny.gov		Hampton Bays Water District PO Box 1013 Hampton Bays N.Y. 11946 (631) 728-0179 ext: 4210 Stella Michaels smichaels@southamptonwny.gov		UCMR 3 UCMR 3 Standard (5-7 Day) X	
Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.	
S - soil / solid	<input type="checkbox"/>	New York	<input checked="" type="checkbox"/>	Summary Report	CT RCP	Standard	Compared to the following Regulation(s): (please fill in)
GW - groundwater	<input type="checkbox"/>	New Jersey	<input type="checkbox"/>	QA Report	CT RCP DQA/DUE	Excel EDD	
DW - drinking water	<input type="checkbox"/>	Connecticut	<input type="checkbox"/>	NY ASP A Package	NJDEP Reduced Deliverables	EQUIS (Standard)	
WW - wastewater	<input type="checkbox"/>	Pennsylvania	<input type="checkbox"/>	NY ASP B Package	NJDKQP	NYSDEC EQUIS	
O - Oil ; Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other:		NJDEP SRP HazSite	
Sample Identification		Date/Time Sampled		Analysis Requested		Container Description	
PLANT #1	GW	4-19-21	10:25	FIELD BLANK		250ml PLASTIC	
PLANT #2	GW	4-19-21	8:35	FIELD BLANK		250ml PLASTIC	
PLANT #3	GW	4-19-21	9:25	FIELD BLANK		250ml PLASTIC	
Comments: 1. Samples Relinquished by / Company: <u>100-130</u> Date/Time: <u>4-19-21 12:51</u> 2. Samples Relinquished by / Company: <u>Pattay Eld YORK</u> Date/Time: <u>4/19/21 12:51</u> 3. Samples Relinquished by / Company: <u>1705</u> Date/Time: <u>4/19/21 17:05</u> 4. Samples Relinquished by / Company: <u>Kbanyork 7/19/21</u> Date/Time: <u>1705</u> 5. Samples Relinquished by / Company: <u>YORK</u> Date/Time: <u>4/19/21 1:57 PM</u>							
Preservation: (check all that apply)				Special Instruction			
HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other: <input type="checkbox"/>				Field Filtered _____ Lab to Filter _____			
1. Samples Relinquished by / Company		Date/Time		2. Samples Relinquished by / Company		Date/Time	
<u>100-130</u>		<u>4-19-21 12:51</u>		<u>YORK</u>		<u>4/19/21 1:57 PM</u>	
3. Samples Relinquished by / Company		Date/Time		3. Samples Received by / Company		Date/Time	
<u>1705</u>		<u>4/19/21 17:05</u>		<u>YORK</u>		<u>4/19/21 17:05</u>	
4. Samples Relinquished by / Company		Date/Time		4. Samples Received in LAB by		Date/Time	
<u>Kbanyork 7/19/21</u>		<u>1705</u>		<u>YORK</u>		<u>4/19/21 17:05</u>	
Temp. Received at Lab				Degrees C			
<u>1.2</u>							