

# Technical Report

for

# Emerging Contaminants

prepared for:

**Hampton Bays Water District**  
18B Ponquoque Ave  
Hampton Bays NY, 11946  
**Attention: Keith Tuthill Jr.**

Report Date: 06/04/2024  
**Client Project ID: PFAS 5/23**  
York Project (SDG) No.: 24E1715

Stratford, CT Laboratory IDs:  
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723



Richmond Hill, NY Laboratory IDs:  
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,  
EPA: NY01600

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[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 06/04/2024  
Client Project ID: PFAS 5/23  
York Project (SDG) No.: 24E1715

**Hampton Bays Water District**  
18B Ponquoque Ave  
Hampton Bays NY, 11946  
Attention: Keith Tuthill Jr.

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## 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 May 24, 2024 and listed below. The project was identified as your project: **PFAS 5/23**.

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](mailto:clientservices@yorklab.com).

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
24E1715-01	Blended Influent GAC RAN TO WASTE	Drinking Water	05/23/2024	05/24/2024
24E1715-02	Blended Influent GAC (FB)	Drinking Water	05/23/2024	05/24/2024
24E1715-03	Vessel A GAC RAN TO WASTE	Drinking Water	05/23/2024	05/24/2024
24E1715-04	Vessel A GAC (FB)	Drinking Water	05/23/2024	05/24/2024
24E1715-05	Vessel B GAC RAN TO WASTE	Drinking Water	05/23/2024	05/24/2024
24E1715-06	Vessel B GAC (FB)	Drinking Water	05/23/2024	05/24/2024

## **General Notes for York Project (SDG) No.: 24E1715**

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, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

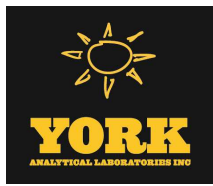
**Approved By:**



Cassie L. Mosher  
Laboratory Manager

**Date:** 06/04/2024





### Sample Information

**Client Sample ID:** Blended Influent GAC RAN TO WASTE

**York Sample ID:** 24E1715-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1715	PFAS 5/23	Drinking Water	May 23, 2024 10:40 am	05/24/2024

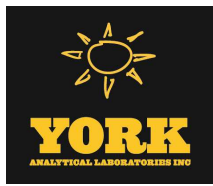
**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
919005-14-4	ADONA	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
756426-58-1	9CL-PF3ONS	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
763051-92-9	11CL-PF3OUdS	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
13252-13-6	HFPO-DA (Gen-X)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
375-73-5	<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>3.07</b>		10		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		10		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
375-85-9	<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>4.96</b>		10		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
355-46-4	<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>16.2</b>		10		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
307-24-4	<b>Perfluorohexanoic acid (PFHxA)</b>	<b>7.28</b>		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
375-95-1	<b>Perfluorononanoic acid (PFNA)</b>	<b>5.97</b>		10		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
1763-23-1	<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>40.2</b>		4		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
335-67-1	<b>Perfluorooctanoic acid (PFOA)</b>	<b>5.88</b>		4		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
2058-94-8	<b>Perfluoroundecanoic acid (PFUnA)</b>	<b>3.80</b>		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
375-22-4	<b>Perfluoro-n-butanoic acid (PFBA)</b>	<b>4.16</b>		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		-		ng/L	1.85	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
27619-97-2	<b>1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)</b>	<b>2.61</b>		-		ng/L	1.85	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		-		ng/L	1.85	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:05	



### Sample Information

**Client Sample ID:** Blended Influent GAC RAN TO WASTE

**York Sample ID:** 24E1715-01

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
2706-90-3	Perfluoropentanoic acid (PFPeA)	8.71		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:05	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:05	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:05	
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:05	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		-		ng/L	0.926	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:05	

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: MPFDoA	67.6 %	50-200
Surrogate: MPFBA	69.2 %	50-200
Surrogate: M9PFNA	64.7 %	50-200
Surrogate: M8PFOS	66.0 %	50-200
Surrogate: M8PFOA	81.3 %	50-200
Surrogate: M7PFUdA	66.4 %	50-200
Surrogate: M6PFDA	68.6 %	50-200
Surrogate: M5PFPeA	65.7 %	50-200
Surrogate: M5PFHxA	77.5 %	50-200
Surrogate: M4PFHpA	72.2 %	50-200
Surrogate: M3PFHxS	81.2 %	50-200
Surrogate: M3PFBS	70.1 %	50-200
Surrogate: M3HFPO-DA	60.3 %	50-200
Surrogate: M2-8:2 FTS	78.4 %	50-200
Surrogate: M2-6:2 FTS	105 %	50-200
Surrogate: M2-4:2 FTS	90.5 %	50-200

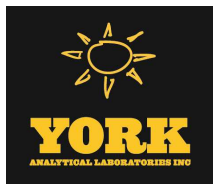
**PFAS, EPA 537.1 UCMR5 List**

**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						
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		-		ng/L	0.926	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:16	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	PFLl	-		ng/L	0.926	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:16	
2355-31-9	N-MeFOSAA	ND		-		ng/L	0.926	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:16	
2991-50-6	N-EtFOSAA	ND	PFLl	-		ng/L	0.926	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:16	



### Sample Information

**Client Sample ID:** Blended Influent GAC RAN TO WASTE

**York Sample ID:** 24E1715-01

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 537.1 UCMR5 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	Acceptance Range					
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>					
	Surrogate: d5-N-EtFOSAA	64.1 %	PFSu-L		70-130					
	Surrogate: MPFDA	86.8 %			70-130					
	Surrogate: MPFHxA	83.8 %			70-130					
	Surrogate: M3HFPO-DA	82.4 %			70-130					

### Sample Information

**Client Sample ID:** Blended Influent GAC (FB)

**York Sample ID:** 24E1715-02

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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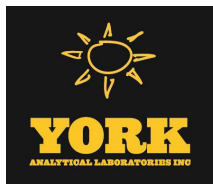
**PFAS, EPA 533 Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Acceptance Range					
919005-14-4	ADONA	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
756426-58-1	9CL-PF3ONS	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
763051-92-9	11CL-PF3OUdS	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
13252-13-6	HFPO-DA (Gen-X)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
375-95-1	Perfluorononanoic acid (PFNA)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		4		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 18:19	



### Sample Information

**Client Sample ID:** Blended Influent GAC (FB)

**York Sample ID:** 24E1715-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24E1715

PFAS 5/23

Drinking Water

May 23, 2024 10:40 am

05/24/2024

**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

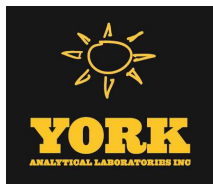
CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
335-67-1	Perfluorooctanoic acid (PFOA)	ND		4		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		-		ng/L	1.82	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		-		ng/L	1.82	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		-		ng/L	1.82	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 18:19	

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: MPFDoA	65.7 %	50-200
Surrogate: MPFBA	71.4 %	50-200
Surrogate: M9PFNA	66.0 %	50-200
Surrogate: M8PFOS	72.0 %	50-200
Surrogate: M8PFOA	79.2 %	50-200
Surrogate: M7PFUdA	61.6 %	50-200
Surrogate: M6PFDA	69.6 %	50-200
Surrogate: M5PFPeA	70.5 %	50-200
Surrogate: M5PFHxA	77.9 %	50-200
Surrogate: M4PFHpA	76.1 %	50-200
Surrogate: M3PFHxS	83.9 %	50-200
Surrogate: M3PFBS	72.2 %	50-200
Surrogate: M3HFPO-DA	69.7 %	50-200
Surrogate: M2-8:2 FTS	67.3 %	50-200



### Sample Information

**Client Sample ID:** Blended Influent GAC (FB)

**York Sample ID:** 24E1715-02

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
	Surrogate: M2-6:2 FTS	97.5 %		50-200						
	Surrogate: M2-4:2 FTS	74.2 %		50-200						

**PFAS, EPA 537.1 UCMR5 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						
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		-		ng/L	0.893	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:28	KT
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	PFL	-		ng/L	0.893	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:28	KT
2355-31-9	N-MeFOSAA	ND		-		ng/L	0.893	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:28	KT
2991-50-6	N-EtFOSAA	ND	PFL	-		ng/L	0.893	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:28	KT
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
	Surrogate: d5-N-EtFOSAA	56.3 %	PFSu-L	70-130						
	Surrogate: MPFDA	103 %		70-130						
	Surrogate: MPFHxA	88.5 %		70-130						
	Surrogate: M3HFPO-DA	96.9 %		70-130						

### Sample Information

**Client Sample ID:** Vessel A GAC RAN TO WASTE

**York Sample ID:** 24E1715-03

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
919005-14-4	ADONA	ND		-		ng/L	0.909	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:12	ESJ
756426-58-1	9CL-PF3ONS	ND		-		ng/L	0.909	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:12	ESJ
763051-92-9	11CL-PF3OUdS	ND		-		ng/L	0.909	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:12	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		-		ng/L	0.909	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:12	ESJ
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		10		ng/L	0.909	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:12	ESJ



### Sample Information

**Client Sample ID:** Vessel A GAC RAN TO WASTE

**York Sample ID:** 24E1715-03

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

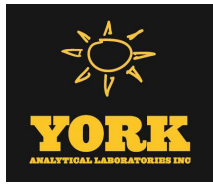
**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
335-76-2	Perfluorodecanoic acid (PFDA)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
375-95-1	Perfluorononanoic acid (PFNA)	ND		10		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		4		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		4		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		-		ng/L	1.82	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		-		ng/L	1.82	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		-		ng/L	1.82	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
151772-58-6	Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND		-		ng/L	0.909	EPA 533	05/28/2024 12:31	ESJ
							Certifications: NELAC-NY12058		06/03/2024 20:12	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: MPFDoA	77.3 %	50-200
Surrogate: MPFBA	74.8 %	50-200



### Sample Information

**Client Sample ID:** Vessel A GAC RAN TO WASTE

**York Sample ID:** 24E1715-03

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
	Surrogate: M9PFNA	72.4 %		50-200						
	Surrogate: M8PFOS	69.2 %		50-200						
	Surrogate: M8PFOA	84.2 %		50-200						
	Surrogate: M7PFUdA	76.5 %		50-200						
	Surrogate: M6PFDA	77.2 %		50-200						
	Surrogate: M5PFPeA	71.3 %		50-200						
	Surrogate: M5PFHxA	91.0 %		50-200						
	Surrogate: M4PFHpA	79.7 %		50-200						
	Surrogate: M3PFHxS	81.2 %		50-200						
	Surrogate: M3PFBS	76.5 %		50-200						
	Surrogate: M3HFPO-DA	86.0 %		50-200						
	Surrogate: M2-8:2 FTS	53.8 %		50-200						
	Surrogate: M2-6:2 FTS	54.2 %		50-200						
	Surrogate: M2-4:2 FTS	49.2 %	PFSu-L	50-200						

**PFAS, EPA 537.1 UCMR5 List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

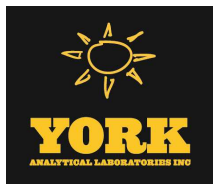
CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		-		ng/L	0.909	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:40	KT
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	PFLL	-		ng/L	0.909	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:40	KT
2355-31-9	N-MeFOSAA	ND		-		ng/L	0.909	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:40	KT
2991-50-6	N-EtFOSAA	ND	PFLL	-		ng/L	0.909	EPA 537.1 Certifications: NELAC-NY12058	05/30/2024 08:34 06/03/2024 14:40	KT
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
	Surrogate: d5-N-EtFOSAA	67.6 %	PFSu-L	70-130						
	Surrogate: MPFDA	96.5 %		70-130						
	Surrogate: MPFHxA	88.7 %		70-130						
	Surrogate: M3HFPO-DA	91.1 %		70-130						

### Sample Information

**Client Sample ID:** Vessel A GAC (FB)

**York Sample ID:** 24E1715-04

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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### Sample Information

**Client Sample ID:** Vessel A GAC (FB)

**York Sample ID:** 24E1715-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

24E1715

PFAS 5/23

Drinking Water

May 23, 2024 10:40 am

05/24/2024

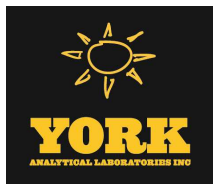
**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
919005-14-4	ADONA	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
756426-58-1	9CL-PF3ONS	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
763051-92-9	11CL-PF3OUdS	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
13252-13-6	HFPO-DA (Gen-X)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		10		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		10		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		10		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		10		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
375-95-1	Perfluorononanoic acid (PFNA)	ND		10		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		4		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		4		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		-		ng/L	1.92	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		-		ng/L	1.92	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		-		ng/L	1.92	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:26	



### Sample Information

**Client Sample ID:** Vessel A GAC (FB)

**York Sample ID:** 24E1715-04

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

24E1715

PFAS 5/23

Drinking Water

May 23, 2024 10:40 am

05/24/2024

**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:26	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:26	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		-		ng/L	0.962	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:26	
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
	Surrogate: MPFDoA	85.0 %		50-200						
	Surrogate: MPFBA	79.7 %		50-200						
	Surrogate: M9PFNA	84.5 %		50-200						
	Surrogate: M8PFOS	77.5 %		50-200						
	Surrogate: M8PFOA	87.0 %		50-200						
	Surrogate: M7PFUdA	81.6 %		50-200						
	Surrogate: M6PFDA	84.3 %		50-200						
	Surrogate: M5PFPeA	78.3 %		50-200						
	Surrogate: M5PFHxA	94.3 %		50-200						
	Surrogate: M4PFHpA	86.8 %		50-200						
	Surrogate: M3PFHxS	80.6 %		50-200						
	Surrogate: M3PFBS	75.7 %		50-200						
	Surrogate: M3HFPO-DA	83.4 %		50-200						
	Surrogate: M2-8:2 FTS	60.1 %		50-200						
	Surrogate: M2-6:2 FTS	57.2 %		50-200						
	Surrogate: M2-4:2 FTS	51.7 %		50-200						

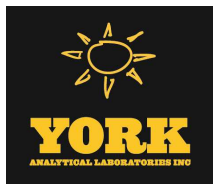
**PFAS, EPA 537.1 UCMR5 List**

**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						
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:52	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	PFL	-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:52	
2355-31-9	N-MeFOSAA	ND		-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:52	
2991-50-6	N-EtFOSAA	ND	PFL	-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 14:52	
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
	Surrogate: d5-N-EtFOSAA	73.9 %		70-130						
	Surrogate: MPFDA	92.5 %		70-130						
	Surrogate: MPFHxA	78.0 %		70-130						



### Sample Information

**Client Sample ID:** Vessel A GAC (FB)

**York Sample ID:** 24E1715-04

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 537.1 UCMR5 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						
	Surrogate: M3HFPO-DA	78.0 %		70-130						

### Sample Information

**Client Sample ID:** Vessel B GAC RAN TO WASTE

**York Sample ID:** 24E1715-05

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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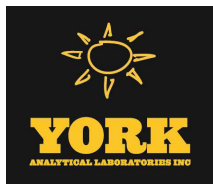
**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
919005-14-4	ADONA	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
756426-58-1	9CL-PF3ONS	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
763051-92-9	11CL-PF3OUdS	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
13252-13-6	HFPO-DA (Gen-X)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
375-95-1	Perfluorononanoic acid (PFNA)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		4		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		4		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
								Certifications: NELAC-NY12058	06/03/2024 20:40	



### Sample Information

**Client Sample ID:** Vessel B GAC RAN TO WASTE

**York Sample ID:** 24E1715-05

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		-		ng/L	1.79	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		-		ng/L	1.79	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		-		ng/L	1.79	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:40	

**Surrogate Recoveries**

**Result**

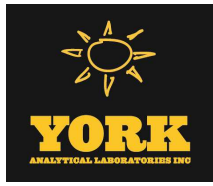
**Acceptance Range**

Surrogate: MPFDoA	75.0 %		50-200
Surrogate: MPFBA	70.3 %		50-200
Surrogate: M9PFNA	70.3 %		50-200
Surrogate: M8PFOS	66.0 %		50-200
Surrogate: M8PFOA	78.1 %		50-200
Surrogate: M7PFUdA	68.5 %		50-200
Surrogate: M6PFDA	73.9 %		50-200
Surrogate: M5PFPeA	69.7 %		50-200
Surrogate: M5PFHxA	78.3 %		50-200
Surrogate: M4PFHpA	74.5 %		50-200
Surrogate: M3PFHxS	70.2 %		50-200
Surrogate: M3PFBS	66.7 %		50-200
Surrogate: M3HFPO-DA	75.4 %		50-200
Surrogate: M2-8:2 FTS	50.2 %		50-200
Surrogate: M2-6:2 FTS	47.0 %	PFSu-L	50-200
Surrogate: M2-4:2 FTS	43.9 %	PFSu-L	50-200

**PFAS, EPA 537.1 UCMR5 List**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** Vessel B GAC RAN TO WASTE

**York Sample ID:** 24E1715-05

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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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						
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 15:05	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	PFL	-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 15:05	
2355-31-9	N-MeFOSAA	ND		-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 15:05	
2991-50-6	N-EtFOSAA	ND	PFL	-		ng/L	0.893	EPA 537.1	05/30/2024 08:34	KT
							Certifications:	NELAC-NY12058	06/03/2024 15:05	
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
	Surrogate: d5-N-EtFOSAA	85.7 %	70-130							
	Surrogate: MPFDA	95.1 %	70-130							
	Surrogate: MPFHxA	91.2 %	70-130							
	Surrogate: M3HFPO-DA	84.1 %	70-130							

### Sample Information

**Client Sample ID:** Vessel B GAC (FB)

**York Sample ID:** 24E1715-06

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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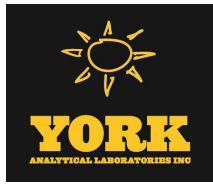
### PFAS, EPA 533 Target List

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
919005-14-4	ADONA	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
756426-58-1	9CL-PF3ONS	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
763051-92-9	11CL-PF3OUdS	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
13252-13-6	HFPO-DA (Gen-X)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		-		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		10		ng/L	0.893	EPA 533	05/28/2024 12:31	ESJ
							Certifications:	NELAC-NY12058	06/03/2024 20:54	



### Sample Information

**Client Sample ID:** Vessel B GAC (FB)

**York Sample ID:** 24E1715-06

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 533

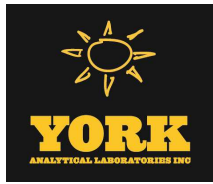
CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		10		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		4		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		4		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		-		ng/L	1.79	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		-		ng/L	1.79	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		-		ng/L	1.79	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		-		ng/L	0.893	EPA 533 Certifications: NELAC-NY12058	05/28/2024 12:31 06/03/2024 20:54	ESJ

**Surrogate Recoveries**

**Result**

**Acceptance Range**

Surrogate: MPFDoA	71.5 %	50-200
Surrogate: MPFBA	72.9 %	50-200
Surrogate: M9PFNA	73.8 %	50-200
Surrogate: M8PFOS	69.2 %	50-200
Surrogate: M8PFOA	79.3 %	50-200
Surrogate: M7PFUdA	71.8 %	50-200
Surrogate: M6PFDA	76.1 %	50-200
Surrogate: M5PFPeA	71.7 %	50-200
Surrogate: M5PFHxA	83.9 %	50-200



### Sample Information

**Client Sample ID:** Vessel B GAC (FB)

**York Sample ID:** 24E1715-06

<u>York Project (SDG) No.</u> 24E1715	<u>Client Project ID</u> PFAS 5/23	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> May 23, 2024 10:40 am	<u>Date Received</u> 05/24/2024
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**PFAS, EPA 533 Target List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 533

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL						
	Surrogate: M4PFHpA	79.3 %		50-200						
	Surrogate: M3PFHxS	72.5 %		50-200						
	Surrogate: M3PFBS	70.1 %		50-200						
	Surrogate: M3HFPO-DA	74.5 %		50-200						
	Surrogate: M2-8:2 FTS	50.1 %		50-200						
	Surrogate: M2-6:2 FTS	52.7 %		50-200						
	Surrogate: M2-4:2 FTS	47.2 %	PFSu-L	50-200						

**PFAS, EPA 537.1 UCMR5 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						
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		-		ng/L	0.877	EPA 537.1	05/30/2024 08:34	KT
							Certifications: NELAC-NY12058		06/03/2024 15:17	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	PFL	-		ng/L	0.877	EPA 537.1	05/30/2024 08:34	KT
							Certifications: NELAC-NY12058		06/03/2024 15:17	
2355-31-9	N-MeFOSAA	ND		-		ng/L	0.877	EPA 537.1	05/30/2024 08:34	KT
							Certifications: NELAC-NY12058		06/03/2024 15:17	
2991-50-6	N-EtFOSAA	ND	PFL	-		ng/L	0.877	EPA 537.1	05/30/2024 08:34	KT
							Certifications: NELAC-NY12058		06/03/2024 15:17	
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
	Surrogate: d5-N-EtFOSAA	80.4 %		70-130						
	Surrogate: MPFDA	98.4 %		70-130						
	Surrogate: MPFHxA	88.4 %		70-130						
	Surrogate: M3HFPO-DA	91.8 %		70-130						



## Analytical Batch Summary

**Batch ID:** BE41827

**Preparation Method:** EPA 533

**Prepared By:** K H

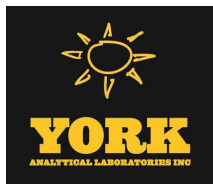
YORK Sample ID	Client Sample ID	Preparation Date
24E1715-01	Blended Influent GAC RAN TC	05/28/24
24E1715-02	Blended Influent GAC (FB)	05/28/24
24E1715-03	Vessel A GAC RAN TO WAST	05/28/24
24E1715-04	Vessel A GAC (FB)	05/28/24
24E1715-05	Vessel B GAC RAN TO WAST	05/28/24
24E1715-06	Vessel B GAC (FB)	05/28/24
BE41827-BLK1	Blank	05/28/24
BE41827-BS1	LCS	05/28/24
BE41827-DUP1	Duplicate	05/28/24
BE41827-MS1	Matrix Spike	05/28/24

**Batch ID:** BE41981

**Preparation Method:** EPA 537.1 SPE DVB

**Prepared By:** K H

YORK Sample ID	Client Sample ID	Preparation Date
24E1715-01	Blended Influent GAC RAN TC	05/30/24
24E1715-02	Blended Influent GAC (FB)	05/30/24
24E1715-03	Vessel A GAC RAN TO WAST	05/30/24
24E1715-04	Vessel A GAC (FB)	05/30/24
24E1715-05	Vessel B GAC RAN TO WAST	05/30/24
24E1715-06	Vessel B GAC (FB)	05/30/24
BE41981-BLK1	Blank	05/30/24
BE41981-BS1	LCS	05/30/24
BE41981-BS2	LCS	05/30/24
BE41981-DUP1	Duplicate	05/30/24
BE41981-MS1	Matrix Spike	05/30/24



**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

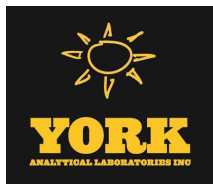
Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD	
		Limit			Result					Limit	Flag

**Batch BE41827 - EPA 533**

**Blank (BE41827-BLK1)**

Prepared: 05/28/2024 Analyzed: 06/03/2024

ADONA	ND	1.00	ng/L								
9CL-PF3ONS	ND	1.00	"								
11CL-PF3OUdS	ND	1.00	"								
HFPO-DA (Gen-X)	ND	1.00	"								
Perfluorobutanesulfonic acid (PFBS)	ND	1.00	"								
Perfluorodecanoic acid (PFDA)	ND	1.00	"								
Perfluorododecanoic acid (PFDoA)	ND	1.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	1.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	1.00	"								
Perfluorohexanoic acid (PFHxA)	ND	1.00	"								
Perfluorononanoic acid (PFNA)	ND	1.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	1.00	"								
Perfluorooctanoic acid (PFOA)	ND	1.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	1.00	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	1.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	1.00	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	1.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.00	"								
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	1.00	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.00	"								
<i>Surrogate: MPFDoA</i>	<i>11.9</i>		<i>"</i>	<i>20.0</i>		<i>59.7</i>	<i>50-200</i>				
<i>Surrogate: MPFBA</i>	<i>15.3</i>		<i>"</i>	<i>20.0</i>		<i>76.3</i>	<i>50-200</i>				
<i>Surrogate: M9PFNA</i>	<i>15.6</i>		<i>"</i>	<i>20.0</i>		<i>77.8</i>	<i>50-200</i>				
<i>Surrogate: M8PFOS</i>	<i>14.0</i>		<i>"</i>	<i>19.2</i>		<i>73.3</i>	<i>50-200</i>				
<i>Surrogate: M8PFOA</i>	<i>17.8</i>		<i>"</i>	<i>20.0</i>		<i>88.9</i>	<i>50-200</i>				
<i>Surrogate: M7PFUdA</i>	<i>14.4</i>		<i>"</i>	<i>20.0</i>		<i>71.8</i>	<i>50-200</i>				
<i>Surrogate: M6PFDA</i>	<i>15.8</i>		<i>"</i>	<i>20.0</i>		<i>79.0</i>	<i>50-200</i>				
<i>Surrogate: M5PFPeA</i>	<i>14.4</i>		<i>"</i>	<i>20.0</i>		<i>71.8</i>	<i>50-200</i>				
<i>Surrogate: M5PFHxA</i>	<i>15.7</i>		<i>"</i>	<i>20.0</i>		<i>78.5</i>	<i>50-200</i>				
<i>Surrogate: M4PFHpA</i>	<i>14.5</i>		<i>"</i>	<i>20.0</i>		<i>72.7</i>	<i>50-200</i>				
<i>Surrogate: M3PFHxS</i>	<i>16.1</i>		<i>"</i>	<i>19.0</i>		<i>84.7</i>	<i>50-200</i>				
<i>Surrogate: M3PFBS</i>	<i>14.1</i>		<i>"</i>	<i>18.6</i>		<i>75.9</i>	<i>50-200</i>				
<i>Surrogate: M3HFPO-DA</i>	<i>14.1</i>		<i>"</i>	<i>20.0</i>		<i>70.7</i>	<i>50-200</i>				
<i>Surrogate: M2-8:2 FTS</i>	<i>72.0</i>		<i>"</i>	<i>76.8</i>		<i>93.7</i>	<i>50-200</i>				
<i>Surrogate: M2-6:2 FTS</i>	<i>88.4</i>		<i>"</i>	<i>76.0</i>		<i>116</i>	<i>50-200</i>				
<i>Surrogate: M2-4:2 FTS</i>	<i>63.2</i>		<i>"</i>	<i>75.2</i>		<i>84.0</i>	<i>50-200</i>				



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

York Analytical Laboratories, Inc. - Stratford

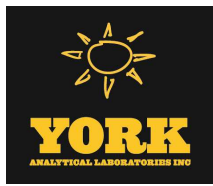
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE41827 - EPA 533

LCS (BE41827-BS1)

Prepared: 05/28/2024 Analyzed: 06/03/2024

ADONA	42.9	1.00	ng/L	37.8		113	70-130				
9CL-PF3ONS	37.2	1.00	"	37.4		99.5	70-130				
11CL-PF3OUdS	36.6	1.00	"	37.8		96.8	70-130				
HFPO-DA (Gen-X)	41.9	1.00	"	40.0		105	70-130				
Perfluorobutanesulfonic acid (PFBS)	39.7	1.00	"	35.5		112	70-130				
Perfluorodecanoic acid (PFDA)	41.4	1.00	"	40.0		104	70-130				
Perfluorododecanoic acid (PFDoA)	42.5	1.00	"	40.0		106	70-130				
Perfluoroheptanoic acid (PFHpA)	44.2	1.00	"	40.0		110	70-130				
Perfluorohexanesulfonic acid (PFHxS)	37.6	1.00	"	36.5		103	70-130				
Perfluorohexanoic acid (PFHxA)	41.5	1.00	"	40.0		104	70-130				
Perfluorononanoic acid (PFNA)	39.6	1.00	"	40.0		98.9	70-130				
Perfluorooctanesulfonic acid (PFOS)	41.8	1.00	"	37.1		113	70-130				
Perfluorooctanoic acid (PFOA)	37.9	1.00	"	40.0		94.8	70-130				
Perfluoroundecanoic acid (PFUnA)	42.0	1.00	"	40.0		105	70-130				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	41.6	1.00	"	37.5		111	70-130				
Perfluoro-1-pentanesulfonate (PFPeS)	38.4	1.00	"	37.6		102	70-130				
Perfluoro-n-butanoic acid (PFBA)	44.1	1.00	"	40.0		110	70-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	40.8	2.00	"	38.4		106	70-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	40.5	2.00	"	38.1		106	70-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	38.9	2.00	"	38.2		102	70-130				
Perfluoropentanoic acid (PFPeA)	42.9	1.00	"	40.0		107	70-130				
Perfluoro-5-oxahexanoic acid (PFMBA)	44.3	1.00	"	40.0		111	70-130				
Perfluoro-4-oxapentanoic acid (PFMPA)	42.4	1.00	"	40.0		106	70-130				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	34.9	1.00	"	40.0		87.3	70-130				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	35.1	1.00	"	35.7		98.5	70-130				
Surrogate: MPFDoA	12.2		"	20.0		61.1	50-200				
Surrogate: MPFBA	15.1		"	20.0		75.5	50-200				
Surrogate: M9PFNA	15.7		"	20.0		78.3	50-200				
Surrogate: M8PFOS	13.5		"	19.2		70.5	50-200				
Surrogate: M8PFOA	16.8		"	20.0		84.0	50-200				
Surrogate: M7PFUdA	15.7		"	20.0		78.4	50-200				
Surrogate: M6PFDA	16.4		"	20.0		82.0	50-200				
Surrogate: M5PFPeA	14.5		"	20.0		72.3	50-200				
Surrogate: M5PFHxA	16.4		"	20.0		81.9	50-200				
Surrogate: M4PFHpA	15.3		"	20.0		76.5	50-200				
Surrogate: M3PFHxS	15.3		"	19.0		80.7	50-200				
Surrogate: M3PFBS	13.5		"	18.6		72.6	50-200				
Surrogate: M3HFPO-DA	15.3		"	20.0		76.5	50-200				
Surrogate: M2-8:2 FTS	57.6		"	76.8		74.9	50-200				
Surrogate: M2-6:2 FTS	63.7		"	76.0		83.8	50-200				
Surrogate: M2-4:2 FTS	50.9		"	75.2		67.6	50-200				



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE41827 - EPA 533

Duplicate (BE41827-DUP1)	*Source sample: 24E1611-01 (Duplicate)						Prepared: 05/28/2024 Analyzed: 06/03/2024				
ADONA	ND	1.11	ng/L		ND					30	
9CL-PF3ONS	ND	1.11	"		ND					30	
11CL-PF3OUdS	ND	1.11	"		ND					30	
HFPO-DA (Gen-X)	ND	1.11	"		ND					30	
Perfluorobutanesulfonic acid (PFBS)	1.36	1.11	"		1.12				19.0	30	
Perfluorodecanoic acid (PFDA)	0.904	1.11	"		1.01				10.8	30	
Perfluorododecanoic acid (PFDoA)	ND	1.11	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	3.17	1.11	"		3.02				4.97	30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.11	"		ND					30	
Perfluorohexanoic acid (PFHxA)	2.84	1.11	"		2.71				4.59	30	
Perfluorononanoic acid (PFNA)	1.30	1.11	"		1.18				9.73	30	
Perfluorooctanesulfonic acid (PFOS)	1.37	1.11	"		2.53				59.6	30	Non-dir.
Perfluorooctanoic acid (PFOA)	12.1	1.11	"		11.2				8.10	30	
Perfluoroundecanoic acid (PFUnA)	ND	1.11	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	1.11	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.11	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	3.80	1.11	"		3.46				9.23	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	2.22	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	2.22	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.22	"		ND					30	
Perfluoropentanoic acid (PFPeA)	3.24	1.11	"		3.07				5.31	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.11	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.11	"		ND					30	
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	ND	1.11	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.11	"		ND					30	
Surrogate: MPFDoA	15.1		"	22.2		68.1	50-200				
Surrogate: MPFBA	15.9		"	22.2		71.5	50-200				
Surrogate: M9PFNA	16.4		"	22.2		73.6	50-200				
Surrogate: M8PFOS	15.0		"	21.3		70.6	50-200				
Surrogate: M8PFOA	18.4		"	22.2		82.7	50-200				
Surrogate: M7PFUdA	16.3		"	22.2		73.4	50-200				
Surrogate: M6PFDA	16.9		"	22.2		76.0	50-200				
Surrogate: M5PFPeA	14.9		"	22.2		67.0	50-200				
Surrogate: M5PFHxA	17.8		"	22.2		79.9	50-200				
Surrogate: M4PFHpA	16.9		"	22.2		76.1	50-200				
Surrogate: M3PFHxS	18.6		"	21.1		88.1	50-200				
Surrogate: M3PFBS	15.3		"	20.7		73.9	50-200				
Surrogate: M3HFPO-DA	15.8		"	22.2		70.9	50-200				
Surrogate: M2-8:2 FTS	72.6		"	85.3		85.1	50-200				
Surrogate: M2-6:2 FTS	96.0		"	84.4		114	50-200				
Surrogate: M2-4:2 FTS	75.5		"	83.6		90.4	50-200				



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE41827 - EPA 533

Matrix Spike (BE41827-MS1) \*Source sample: 24E1616-01 (Matrix Spike) Prepared: 05/28/2024 Analyzed: 06/03/2024

ADONA	55.6	1.19	ng/L	45.0	ND	123	70-130				
9CL-PF3ONS	46.3	1.19	"	44.5	ND	104	70-130				
11CL-PF3OUdS	47.2	1.19	"	45.0	ND	105	70-130				
HFPO-DA (Gen-X)	41.8	1.19	"	47.6	ND	87.7	70-130				
Perfluorobutanesulfonic acid (PFBS)	54.2	1.19	"	42.3	3.48	120	70-130				
Perfluorodecanoic acid (PFDA)	47.4	1.19	"	47.6	ND	99.5	70-130				
Perfluorododecanoic acid (PFDoA)	51.4	1.19	"	47.6	ND	108	70-130				
Perfluoroheptanoic acid (PFHpA)	58.4	1.19	"	47.6	2.12	118	70-130				
Perfluorohexanesulfonic acid (PFHxS)	48.8	1.19	"	43.4	ND	112	70-130				
Perfluorohexanoic acid (PFHxA)	51.9	1.19	"	47.6	1.60	106	70-130				
Perfluorononanoic acid (PFNA)	46.3	1.19	"	47.6	0.687	95.7	70-130				
Perfluorooctanesulfonic acid (PFOS)	51.3	1.19	"	44.2	1.29	113	70-130				
Perfluorooctanoic acid (PFOA)	50.3	1.19	"	47.6	6.08	92.9	70-130				
Perfluoroundecanoic acid (PFUnA)	50.4	1.19	"	47.6	ND	106	70-130				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	48.1	1.19	"	44.7	ND	108	70-130				
Perfluoro-1-pentanesulfonate (PFPeS)	47.2	1.19	"	44.8	ND	106	70-130				
Perfluoro-n-butanoic acid (PFBA)	52.6	1.19	"	47.6	2.39	106	70-130				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	45.5	2.38	"	45.7	ND	99.5	70-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	47.0	2.38	"	45.3	ND	104	70-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	45.6	2.38	"	45.4	ND	100	70-130				
Perfluoropentanoic acid (PFPeA)	51.8	1.19	"	47.6	1.26	106	70-130				
Perfluoro-5-oxahexanoic acid (PFMBA)	50.3	1.19	"	47.6	ND	106	70-130				
Perfluoro-4-oxapentanoic acid (PFMPA)	49.4	1.19	"	47.6	ND	104	70-130				
Perfluoro-3,6-dioxahexanoic acid (NFDHA)	44.7	1.19	"	47.6	ND	93.9	70-130				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	43.5	1.19	"	42.5	ND	102	70-130				
Surrogate: MPFDoA	20.3		"	23.8		85.2	50-200				
Surrogate: MPFBA	17.3		"	23.8		72.6	50-200				
Surrogate: M9PFNA	18.8		"	23.8		79.1	50-200				
Surrogate: M8PFOS	16.3		"	22.8		71.7	50-200				
Surrogate: M8PFOA	19.7		"	23.8		82.6	50-200				
Surrogate: M7PFUdA	19.0		"	23.8		79.8	50-200				
Surrogate: M6PFDA	20.0		"	23.8		84.0	50-200				
Surrogate: M5PFPeA	16.7		"	23.8		70.3	50-200				
Surrogate: M5PFHxA	21.2		"	23.8		88.9	50-200				
Surrogate: M4PFHpA	18.1		"	23.8		75.9	50-200				
Surrogate: M3PFHxS	17.0		"	22.6		75.1	50-200				
Surrogate: M3PFBS	16.2		"	22.2		73.1	50-200				
Surrogate: M3HFPO-DA	21.3		"	23.8		89.5	50-200				
Surrogate: M2-8:2 FTS	47.6		"	91.4		52.1	50-200				
Surrogate: M2-6:2 FTS	43.9		"	90.5		48.6	50-200				
Surrogate: M2-4:2 FTS	50.1		"	89.5		56.0	50-200				



**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

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

**Batch BE41981 - EPA 537.1 SPE DVB**

**Blank (BE41981-BLK1)**

Prepared: 05/30/2024 Analyzed: 06/03/2024

Perfluorotridecanoic acid (PFTTrDA)	ND	2.00	ng/L										
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"										
N-MeFOSAA	ND	2.00	"										
N-EtFOSAA	ND	2.00	"										
<i>Surrogate: d5-N-EtFOSAA</i>	202		"	320		63.0	70-130						
<i>Surrogate: MPFDA</i>	79.5		"	80.0		99.3	70-130						
<i>Surrogate: MPFHxA</i>	68.4		"	80.0		85.5	70-130						
<i>Surrogate: M3HFPO-DA</i>	76.3		"	80.0		95.4	70-130						

**LCS (BE41981-BS1)**

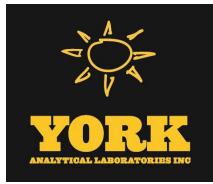
Prepared: 05/30/2024 Analyzed: 06/03/2024

Perfluorotridecanoic acid (PFTTrDA)	29.6	2.00	ng/L	40.0		74.0	70-130						
Perfluorotetradecanoic acid (PFTA)	24.3	2.00	"	40.0		60.7	70-130	Low Bias					
N-MeFOSAA	35.3	2.00	"	40.0		88.2	70-130						
N-EtFOSAA	25.3	2.00	"	40.0		63.3	70-130	Low Bias					
<i>Surrogate: d5-N-EtFOSAA</i>	210		"	320		65.6	70-130						
<i>Surrogate: MPFDA</i>	80.6		"	80.0		101	70-130						
<i>Surrogate: MPFHxA</i>	69.5		"	80.0		86.9	70-130						
<i>Surrogate: M3HFPO-DA</i>	69.9		"	80.0		87.3	70-130						

**LCS (BE41981-BS2)**

Prepared: 05/30/2024 Analyzed: 06/03/2024

Perfluorotridecanoic acid (PFTTrDA)	3.00	2.00	ng/L	4.00		74.9	70-130						
Perfluorotetradecanoic acid (PFTA)	2.71	2.00	"	4.00		67.8	70-130	Low Bias					
N-MeFOSAA	3.40	2.00	"	4.00		85.1	70-130						
N-EtFOSAA	2.55	2.00	"	4.00		63.6	70-130	Low Bias					
<i>Surrogate: d5-N-EtFOSAA</i>	205		"	320		64.2	70-130						
<i>Surrogate: MPFDA</i>	70.1		"	80.0		87.6	70-130						
<i>Surrogate: MPFHxA</i>	63.9		"	80.0		79.9	70-130						
<i>Surrogate: M3HFPO-DA</i>	65.4		"	80.0		81.8	70-130						



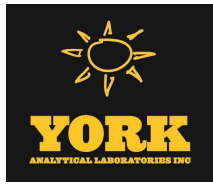
**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc. - Stratford**

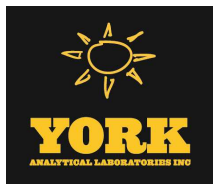
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BE41981 - EPA 537.1 SPE DVB**

<b>Duplicate (BE41981-DUP1)</b>	<b>*Source sample: 24E1692-01 (Duplicate)</b>						<b>Prepared: 05/30/2024 Analyzed: 06/03/2024</b>				
Perfluorotridecanoic acid (PFTTrDA)	ND	0.926	ng/L		ND						25
Perfluorotetradecanoic acid (PFTA)	ND	0.926	"		ND						25
N-MeFOSAA	ND	0.926	"		ND						25
N-EtFOSAA	ND	0.926	"		ND						25
<i>Surrogate: d5-N-EtFOSAA</i>	<i>133</i>		<i>"</i>	<i>148</i>		<i>90.0</i>	<i>70-130</i>				
<i>Surrogate: MPFDA</i>	<i>35.9</i>		<i>"</i>	<i>37.0</i>		<i>96.8</i>	<i>70-130</i>				
<i>Surrogate: MPFHxA</i>	<i>32.2</i>		<i>"</i>	<i>37.0</i>		<i>86.9</i>	<i>70-130</i>				
<i>Surrogate: M3HFPO-DA</i>	<i>30.5</i>		<i>"</i>	<i>37.0</i>		<i>82.3</i>	<i>70-130</i>				

<b>Matrix Spike (BE41981-MS1)</b>	<b>*Source sample: 24E1697-04 (Matrix Spike)</b>						<b>Prepared: 05/30/2024 Analyzed: 06/03/2024</b>				
Perfluorotridecanoic acid (PFTTrDA)	22.1	0.926	ng/L	37.0	ND	59.6	70-130	Low Bias			
Perfluorotetradecanoic acid (PFTA)	22.8	0.926	"	37.0	ND	61.6	70-130	Low Bias			
N-MeFOSAA	31.3	0.926	"	37.0	ND	84.6	70-130				
N-EtFOSAA	31.0	0.926	"	37.0	ND	83.8	70-130				
<i>Surrogate: d5-N-EtFOSAA</i>	<i>113</i>		<i>"</i>	<i>148</i>		<i>76.6</i>	<i>70-130</i>				
<i>Surrogate: MPFDA</i>	<i>28.6</i>		<i>"</i>	<i>37.0</i>		<i>77.2</i>	<i>70-130</i>				
<i>Surrogate: MPFHxA</i>	<i>27.6</i>		<i>"</i>	<i>37.0</i>		<i>74.5</i>	<i>70-130</i>				
<i>Surrogate: M3HFPO-DA</i>	<i>28.9</i>		<i>"</i>	<i>37.0</i>		<i>78.0</i>	<i>70-130</i>				





## 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.
- PFLl The recovery for this PFAS compound was below control limits

### 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 accordingly.



# Field Chain-of-Custody Record

York Analytical Laboratories Inc. (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.

120 Research Drive Stafford CT 06615 132-02 88th Ave Queens, NY 11418 56 Church Hill Rd #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

YORK Project No. 24E1715

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<b>YOUR Information</b> Hampton Bays Water District 18B Ponquogue Ave Hampton Bays, NY 11946 631-728-0179 Keith Tuthill Jr ktuthilljr@southamptontownny.gov		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b> RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day RUSH - Five Day Standard (6-9 Day) X			
<b>Matrix Codes</b> S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil   Other		<b>Matrix Codes</b> S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil   Other		<b>Report / EDD Type (circle selections)</b> Summary Report QA Report CMDP Standard Excel EDD NY ASP B Package		<b>Report / EDD Type (circle selections)</b> CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables Other		<b>YORK Reg. Comp.</b> Compared to the following Regulation(s): (please fill in)		<b>YORK Reg. Comp.</b> PFAS Standard is 7-10 Days	
<b>Sample Identification</b> Blended Influent GAC Vessel A GAC Vessel B GAC		<b>Sample Matrix</b> GW GW GW		<b>Sample Time Sampled</b> 5/23/24 10:40AM 5/23/24 10:40AM 5/23/24 10:40AM		<b>Analyses Requested</b> 533, 533 FB, 537.1, 537.1 FB 533, 533 FB, 537.1, 537.1 FB 533, 533 FB, 537.1, 537.1 FB		<b>Container Type</b> No.		<b>Container Type</b> No.	
<b>Samples Collected by:</b> (print AND sign your name)		<b>Samples From</b> New York New Jersey Connecticut Pennsylvania Other:		<b>Report / EDD Type (circle selections)</b> Summary Report QA Report CMDP Standard Excel EDD NY ASP B Package		<b>Report / EDD Type (circle selections)</b> CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables Other		<b>YORK Reg. Comp.</b> Compared to the following Regulation(s): (please fill in)		<b>YORK Reg. Comp.</b> PFAS Standard is 7-10 Days	
<b>Comments:</b> RAN TO WASTE/PLEASE RUSH		<b>Preservation:</b> (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___		<b>Special Instruction</b> Field Filtered Lab to Filter		<b>Special Instruction</b> Field Filtered Lab to Filter		<b>Special Instruction</b> Field Filtered Lab to Filter		<b>Special Instruction</b> Field Filtered Lab to Filter	
Keith Tuthill 5/23/24 10:40AM		R. Badyork 5/24/25 12:15 PM		R. Badyork 5/24/24 17:15		R. Badyork 5/24/24 17:15		R. Badyork 5/24/24 17:15		R. Badyork 5/24/24 17:15	
Ramon Pan 5/24/24 17:15		Ramon Pan 5/24/24 2000		Ramon Pan 5/24/24 2000		Ramon Pan 5/24/24 2000		Ramon Pan 5/24/24 2000		Ramon Pan 5/24/24 2000	