



architects + engineers

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January 10, 2022

Ms. Kristine Wheeler, P.E., Director
Bureau of Water Supply Protection
New York State Department of Health
Corning Tower
Empire State Plaza, Rm 1110
Albany, New York 12237

emailed To: bpwsp@health.ny.gov

Mr. Josh Mednick, P.E.
Suffolk County Department of Health Services
360 Yaphank Avenue, Ste. 1C
Yaphank, New York 11980-9653

emailed To: joshua.mednick@suffolkcountyny.gov

**Re Hampton Bays Water District
Perfluorooctanoic Acid (PFOA) and
Perfluorooctanesulfonic Acid (PFOS) MCL Deferral
Emerging Contaminant Quarterly Update – 4th Quarter 2021
Public Water System ID# NY51033704**

Dear Ms. Wheeler and Mr. Mednick:

On behalf of the Hampton Bays Water District (District) and in accordance with the terms of the Deferral for the PFOS and PFOA MCL, which was approved on January 6, 2021 and shall be effective until August 25, 2021, our office has prepared the enclosed emerging contaminant quarterly update for the 4th quarter of 2021 (October 1, 2021 through December 31, 2021). As the terms of the initial deferral have expired, on behalf of the District we are herewith requesting an extension of deferral for PFOS and PFOA for one year. At that point the District should be in better shape to provide wellhead treatment at the site.

Continued sampling within the District shows:

- Detections at the three Plant No. 1 wells continue to exceed regulatory limits for PFOS with and PFOA exceeding the MCL. Treatment is maintained at this site with results for all PFA compounds being non-detect in the filter effluent. The District completed a carbon change out at this site.
- No detections have been shown in the product of the four wells at Plant No. 2 and Plant No. 4.
- Well No. 3-1 continues to show no detections of PFOS or PFOA, however had a low level hit of PFNA.
- Well No. 3-2 continues to show detections of PFOS, below the 10 ng/l MCL. Detections of PFOA have been sporadic. The well currently is the last-on well at this well field and will only operate when blended with the effluent of Well Nos. 3-1 and 3-3 which produces a combined effluent for PFOA and PFOS below the 10ng/L MCL. The blended effluents have been included in the sampling results for this quarter.
- Well No. 3-3 shows low level detections of PFOS.
- Well No. 5-1 shows low level detections of PFOS.
- During the 4th quarter of 2021, the District did not deliver any water that exceeded the MCL for PFOA/PFOS, with all wells being below the MCL or maintain treatment.

As requested by the Deferral approval, the District already completed the initial Public Notification advising residents of the deferral acceptance. In addition, this Quarterly Update has been prepared to present the progress the district is making to address PFOA/PFOS in their wells More specifically, this update provides:

- A. A summary of PFOA/PFOS sampling results for this quarter.
- B. Progress Report on PFOA/PFOS issues and any potential issues that could delay progress in meeting milestone dates presented in the Corrective Action Plan in the original Deferral request.
- C. DEC Pumpage Report
- D. Water Quality Reports

In summary, during the 4th quarter of 2021, the Engineering Report to analyze the water quality at Plant No. 3 and recommend the most appropriate action for the District to take to ensure they meet water quality goals and avoids violation was completed. The report has concluded that in the short term, blending of the Plant No. 3 wells, with Well No. 3-2 as the last on, is an effective method for the District to meet its water quality goals, and avoid MCL violations. The report will recommend that wellhead treatment be installed at Plant No. 3 if the levels of PFOA and/or PFOS continue to rise in Well No. 3-2, or in the other Plant No. 3 wells. Filtration by granular activated carbon (GAC) is the recommended method of treatment.

At this time the wells at Plant No. 1 and 3 have been placed in reserve or taken off-line for the winter months. Sampling will continue upon their return to service. We have not heard of our request for a one-year extension of the MCL Deferral to permit sufficient time for the endorsement of the short-term and long-term treatment goals.

The District will post this Quarterly Update on the Town website.

Please contact our office should you have any comments concerning this Deferral Update.

Very truly yours,

H2M architects + engineers



John R. Collins, P.E., LEED AP
Dept. Manager – Water Resources

JRC/jrc

Enclosure

cc: Supt. Jay Schneiderman
Southampton Town Board
Supt. Richard McCuen
Asst. Supt. James Kappers
Jason Hime, P.E. SCDHS

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Hampton Bays Water District
PWS ID No. NY51033704
Progress, Potential Issues and Water Quality Update



Quarterly Report Date: 1/10/2022

Prepared By: H2M architects+engineers

Milestone Description	Date	Completed (Y/N)	Delayed (Y/N)	Notes and Comments
Treatment Piloting	n/a	n/a	n/a	Piloting not required unless District elects to use IX as treatment method. BAT points to GAC long-term, with blending initially.
Engineering Report	10/2021	Y	Y	Submitted in January 2022
Water Quality Monitoring	2021	ONGOING	N	The District continues with enhanced water quality monitoring w for PFA for all three Plant No. 3 supply wells
Design	11/2021	N	N	Target April 2022 after funding approved
Construction Start	3/2022	N	N	Target September 2022
50% Construction Completion	8/2022	N	N	Target January 2023
100% Construction Completion	12/2022	N	N	Target May 2023
Potential Issues/Concerns/Delays Explanation:				

Hampton Bays Water District
PWS ID No. NY51033704
PFOS/PFOA Water Quality Summary



Status as of: October 1, 2021 through December 31, 2021
Prepared By: H2M architects+engineers

Location	Date Sampled	PFOA (ng/L)		PFOS (ng/L)		Treatment in Place (Y/N)	Notes and Comments
		Raw Level	Treated Level	Raw Level	Treated Level		
Well No. 1-1	10/5/2021	11.8	ND	96.6	ND	Y	All wells at Field No. 1 shut down for winter in early November. Results from November Sampling Event Pending All wells at Field No. 3 shut down for winter in October All wells at Plant No. 3 Running. Well No. 3-2 in lag. Results Pending
Well No. 1-1	11/9/2021					Y	
Well No. 1-2	10/5/2021	8.7	ND	53.3	ND	Y	
Well No. 1-2	11/9/2021					Y	
Well No. 1-3	10/5/2021	6.1	ND	14.3	ND	Y	
Well No. 1-3	11/9/2021					Y	
Well No. 2-1	10/5/2021	ND	n/a	ND	n/a	N	
Well No. 2-2	10/5/2021	ND	n/a	ND	n/a	N	
Well No. 3-1	10/5/2021	ND	n/a	ND	n/a	N	
Well No. 3-2	10/5/2021	1.9	n/a	5.4	n/a	N	
Well No. 3-3	10/5/2021	ND	n/a	3.9	n/a	N	
Plant No. 3 Blended Effluent	10/5/2021	ND	n/a	1.8	n/a	N	
Well No. 4-1	10/5/2021	ND	n/a	ND	n/a	N	
Well No. 4-2	10/5/2021	ND	n/a	ND	n/a	N	
Well No. 5-1	10/5/2021	ND	n/a	1.9	n/a	N	
Well No. 5-1	11/9/2021					N	
Well No. 5-1	12/7/2021	ND	n/a	ND	n/a	N	
Notes:							
PFOA	Perfluorooctanoic Acid						Bold results exceed MCL
PFOS	Perfluorooctanesulfonic Acid						
ND	Non-detect						
MCL	Maximum Contaminant Level						
NS	Not Sampled						

Water Quality Test Results Attachments to Follow

**HAMPTON BAYS WATER DISTRICT
PLANT No. 3 – BELLOWS POND ROAD
HISTORY OF PERFLUORINATED COMPOUNDS**

Sample Date	Well	PFOS ng/l	PFOA ng/l	PFNA ng/l	Other ng/l
September 12, 2018	3-1	<40	<2.0	<20	<28
	3-2	<38	<1.9	<19	<30
	3-3	<37	<1.9	<19	<28
February 27, 2019	3-1	<1.9	<1.9	<19	<1.9
	3-2	<2.0	<2.0	19	<1.9
	3-3	<1.9	<1.9	<19	<1.9
May 6, 2020	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	3.7	2.4	21.6	4.9 (PFHxS)
	3-3	<1.9	<1.9	3.7	<1.9
May 27, 2020	3-1	NS	NS	NS	NS
	3-2	2.2	<1.9	15.1	3.6 (PFHxS)
	3-3	NS	NS	NS	NS
September 9, 2020	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	7.1	2.1	11.1	5.1 (PFHxS)
	3-3	40.9	7.6	6.2	27.1 (PFHxS) 3.7 (PFBA) 5.7 (PFHpA)
September 24, 2020	3-1	NS	NS	NS	NS
	3-2	NS	NS	NS	NS
	3-3	1.9	<1.8	10.7	3.2 (PFHxS) 3.7 (PFBA)
October 21, 2020	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	6.1	2.0	9.4	4.6 (PFHxS)
	3-3	<1.9	<1.9	4.6	2.8 (PFBS)
December 2, 2020	3-1	<2.0	<2.0	<2.0	<2.0
	3-2	1.9	<1.9	9.6	2.1 (PFHxS)
	3-3	<1.9	<1.9	<1.9	<1.9
January 13, 2021	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	6.3	2.5	13.3	5.4 (PFHxS)
	3-3	<1.9	<1.9	2.3	<1.9
February 10, 2021	3-1	NS	NS	NS	Well OOS
	3-2	9.2	2.9	17.7	2.3 (PFHpA) 6.9 (PFHxS)
	3-3	<1.9	<1.9	7.0	3.6 (PFBS)
March 10, 2021	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	6.3	<1.9	14.1	4.6 (PFHxS)
	3-3	<2.0	<2.0	5.2	<2.0
April 19, 2021	3-1	<1.5	<1.5	<1.5	<1.5
	3-2	9.6	2.5	10.8	5.2 (PFHxS) 2.7 (PFHxA) 1.7 (PFHpA)
	3-3	<1.6	<1.6	5.5	1.7 (PFBS) 3.1 (PFHxA) 1.7 (PFHxS)
May 13, 2021	3-1	<2.5	<2.5	<2.5	<2.5
	3-2	7.8	<2.7	9.1	4.5 (PFHxS)
	3-3	<3.0	<3.0	6.1	3.4 (PFHxS)

**HAMPTON BAYS WATER DISTRICT
PLANT No. 3 – BELLOWS POND ROAD
HISTORY OF PERFLUORINATED COMPOUNDS**

June 3, 2021	3-1	<1.5	<1.5	<1.5	<1.5
	3-2	7.3	1.8	7.1	3.9 (PFHxS)
	3-3	<3.0	<3.0	6.1	1.6 (PFHxS) 2.3 (PFHxA)
July 29, 2021	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	9.1	2.3	7.2	4.1 (PFHxS)
	3-3	2.8	2.5	8.6	3.3 (PFHxS) 3.5 (PFHxA) 2.5 (PFBS)
August 5, 2021	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	9.7	2.4	7.0	4.3 (PFHxS)
	3-3	3.0	2.1	8.7	3.8 (PFHxS) 3.9 (PFHxA) 2.4 (PFBS)
September 16, 2021	3-1	<1.9	<1.9	<1.9	<1.9
	3-2	8.8	2.1	5.2	3.7 (PFHxS)
	3-3	3.0	1.9	7.6	4.0 (PFHxS) 4.0 (PFHxA) 2.4 (PFBS)
October 5, 2021	3-1	<1.9	<1.9	2.1	<1.9
	3-2	5.4	<1.9	5.9	1.9 (PFHxS)
	3-3	3.1	<1.9	6.4	3.1 (PFHxS) 2.9 (PFHxA)

ng/l = parts per trillion

PFOS / PFOA: Current MCL = 10 ppt; effective 8/26/2020.

PFNA/PFBS/PFHxS/PFHxA: No Current MCL or HAL

NS – Not Sampled

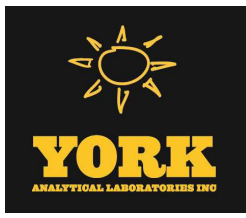
Sample Date	Well Site	BLENDED PFOS (ng/l)	BLENDED PFOA (ng/l)	BLENDED PFNA (ng/l)
April 19, 2021	3	4.03	<1.52	5.16
May 13, 2021	3	<3.12	<3.12	4.52
June 3, 2021	3	3.38	<1.52	4.86
July 29, 2021	3	4.43	1.51	6.57
August 5, 2021	3	<1.49	<1.49	<1.49
September 16, 2021	3	4.63	1.87	4.83
October 5, 2021	3	1.86	<1.9	<1.9

PFOS / PFOA: Current MCL = 10 ng/l

**HAMPTON BAYS WATER DISTRICT
WELL No. 5-1 – JONES ROAD
HISTORY OF PERFLUORINATED COMPOUNDS**

Sample Date	Well	PFOS (ng/l)	PFOA (ng/l)	PFHxS (ng/l)	PFNA (ng/l)
September 12, 2018	5-1	<39	<1.9	<29	<19
February 29, 2019	5-1	<1.9	1.9	<1.9	<1.9
May 6, 2020	5-1	3.4	<1.9	<1.9	<1.9
May 27, 2020	5-1	2.5	<1.9	<1.9	<1.9
September 9, 2020	5-1	3.7	<1.9	<1.9	<1.9
October 21, 2020	5-1	3.1	<1.8	<1.8	<1.8
February 10, 2021	5-1	4.5	<1.9	<1.9	<1.9
May 13, 2021	5-1	3.1	<2.8	<2.8	<2.8
June 3, 2021	5-1	2.1	<1.4	<1.4	<1.4
July 29, 2021	5-1	3.9	<1.9	<1.9	<1.9
August 5, 2021	5-1	3.2	<1.9	<1.9	<1.9
September 7, 2021	5-1	2.3	<1.9	<1.9	<1.9
October 5, 2021	5-1	1.8	<1.9	<1.9	<1.9
December 7, 2021	5-1	<1.8	<1.8	<1.8	<1.8

PFOS / PFOA: Current MCL = 10 ng/l



Technical Report

for

Emerging Contaminants

prepared for:

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

Report Date: 10/15/2021
Client Project ID: UCMR 3
York Project (SDG) No.: 21J0181

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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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 10/15/2021
 Client Project ID: UCMR 3
 York Project (SDG) No.: 21J0181

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 October 05, 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>
21J0181-01	WELL 1-1	Drinking Water	10/05/2021	10/05/2021
21J0181-02	WELL 1-1 FIELD BLANK	Drinking Water	10/05/2021	10/05/2021
21J0181-03	WELL 1-2	Drinking Water	10/05/2021	10/05/2021
21J0181-04	WELL 1-3	Drinking Water	10/05/2021	10/05/2021
21J0181-05	WELL 2-1	Drinking Water	10/05/2021	10/05/2021
21J0181-06	WELL 2-2	Drinking Water	10/05/2021	10/05/2021
21J0181-07	WELL 2-2 FIELD BLANK	Drinking Water	10/05/2021	10/05/2021
21J0181-08	WELL 3-1	Drinking Water	10/05/2021	10/05/2021
21J0181-09	WELL 3-2	Drinking Water	10/05/2021	10/05/2021
21J0181-10	WELL 3-3	Drinking Water	10/05/2021	10/05/2021
21J0181-11	WELL 3-3 FIELD BLANK	Drinking Water	10/05/2021	10/05/2021
21J0181-12	WELL 4-1	Drinking Water	10/05/2021	10/05/2021
21J0181-13	WELL 4-2	Drinking Water	10/05/2021	10/05/2021
21J0181-14	WELL 4-2 FIELD BLANK	Drinking Water	10/05/2021	10/05/2021
21J0181-15	WELL 5-1	Drinking Water	10/05/2021	10/05/2021
21J0181-16	WELL 5-1 FIELD BLANK	Drinking Water	10/05/2021	10/05/2021
21J0181-17	BLEND INF MAIN PLANT GAC	Drinking Water	10/05/2021	10/05/2021
21J0181-18	BLEND INF MAIN PLANT GAC FB	Drinking Water	10/05/2021	10/05/2021
21J0181-19	BLEND EFF MAIN PLANT GAC	Drinking Water	10/05/2021	10/05/2021
21J0181-20	BLEND EFF MAIN PLANT GAC FB	Drinking Water	10/05/2021	10/05/2021
21J0181-21	BLEND EFF PLANT #3	Drinking Water	10/05/2021	10/05/2021

General Notes for York Project (SDG) No.: 21J0181

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

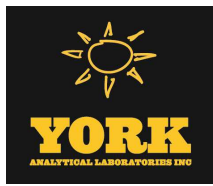
Approved By:



Cassie L. Mosher
Laboratory Manager

Date: 10/15/2021





Sample Information

Client Sample ID: WELL 1-1

York Sample ID: 21J0181-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21J0181	UCMR 3	Drinking Water	October 5, 2021 7:30 am	10/05/2021

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	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
123-91-1	1,4-Dioxane	ND		1	ug/L	0.200	EPA 522	10/14/2021 07:41	AH
						Certifications: NELAC-NY10854		10/14/2021 16:19	
	Surrogate Recoveries	Result		Acceptance Range					
17647-74-4	Surrogate: 1,4-Dioxane-d8	84.0 %		70-130					

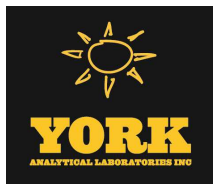
PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL	Units	Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.84		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
307-24-4	* Perfluorohexanoic acid (PFHxA)	10.1		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	6.71		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	31.0		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
335-67-1	Perfluorooctanoic acid (PFOA)	11.8	PFOA-X	10	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications: NELAC-NY12058		10/14/2021 17:53	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	96.6	PFOS-X	10	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications: NELAC-NY12058		10/14/2021 17:53	
375-95-1	* Perfluorononanoic acid (PFNA)	8.12		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
72629-94-8	* Perfluorotridecanoic acid (PFTriDA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
2355-31-9	* N-MeFOSAA	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
2991-50-6	* N-EtFOSAA	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	
756426-58-1	* 9CL-PF3ONS	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
						Certifications:		10/14/2021 17:53	



Sample Information

Client Sample ID: WELL 1-1

York Sample ID: 21J0181-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 7:30 am

10/05/2021

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Table with columns: CAS No., Parameter, Result, Flag, MCL, Units, Reported to LOQ, Reference Method, Date/Time Prep/Anal, Analyst. Includes data for 11CL-PF3OUdS, HFPO-DA (Gen-X), and ADONA.

Surrogate Recoveries

Result

Acceptance Range

Table with 3 columns: Surrogate, Result, Acceptance Range. Includes entries for d5-N-EtFOSAA, 13C-PFDA, 13C-PFHxA, and M3HFPO-DA.

Sample Information

Client Sample ID: WELL 1-1 FIELD BLANK

York Sample ID: 21J0181-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 7:30 am

10/05/2021

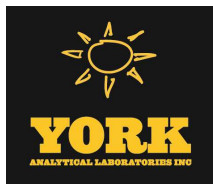
PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Table with columns: CAS No., Parameter, Result, Flag, MCL, Units, Reported to LOQ, Reference Method, Date/Time Prep/Anal, Analyst. Includes data for Perfluorobutanesulfonic acid (PFBS), Perfluorohexanoic acid (PFHxA), Perfluoroheptanoic acid (PFHpA), Perfluorohexanesulfonic acid (PFHxS), Perfluorooctanoic acid (PFOA), Perfluorooctanesulfonic acid (PFOS), Perfluorononanoic acid (PFNA), Perfluorodecanoic acid (PFDA), and Perfluoroundecanoic acid (PFUnA).



Sample Information

Client Sample ID: WELL 1-1 FIELD BLANK

York Sample ID: 21J0181-02

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 7:30 am	<u>Date Received</u> 10/05/2021
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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						
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:07	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: d5-N-EtFOSAA	91.7 %		70-130						
	Surrogate: 13C-PFDA	109 %		70-130						
	Surrogate: 13C-PFHxA	92.6 %		70-130						
	Surrogate: M3HFPO-DA	82.3 %		70-130						

Sample Information

Client Sample ID: WELL 1-2

York Sample ID: 21J0181-03

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 7:45 am	<u>Date Received</u> 10/05/2021
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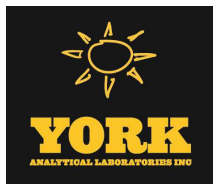
1,4-Dioxane by GC/MS/SIM EPA 522

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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/14/2021 07:41	AH
							Certifications:	NELAC-NY10854	10/14/2021 14:39	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	76.0 %		70-130						



Sample Information

Client Sample ID: WELL 1-2

York Sample ID: 21J0181-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 7:45 am

10/05/2021

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.60		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
307-24-4	* Perfluorohexanoic acid (PFHxA)	7.52		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	5.09		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	13.9		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
335-67-1	Perfluorooctanoic acid (PFOA)	8.73		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								NELAC-NY12058	10/14/2021 18:20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	53.3	PFOS-X	10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								NELAC-NY12058	10/14/2021 18:20	
375-95-1	* Perfluorononanoic acid (PFNA)	24.9		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
2991-50-6	* N-EtFOSAA	2.17		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
									10/14/2021 18:20	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

110 %

70-130

Surrogate: 13C-PFDA

129 %

70-130

Surrogate: 13C-PFHxA

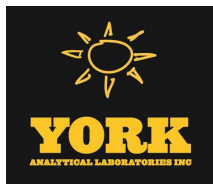
105 %

70-130

Surrogate: M3HFPO-DA

94.0 %

70-130



Sample Information

Client Sample ID: WELL 1-2				York Sample ID: 21J0181-03
<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 7:45 am	<u>Date Received</u> 10/05/2021

Sample Information

Client Sample ID: WELL 1-3				York Sample ID: 21J0181-04
<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 8:00 am	<u>Date Received</u> 10/05/2021

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	Acceptance Range					
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/14/2021 07:41	AH
							Certifications: NELAC-NY10854		10/14/2021 15:00	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	84.0 %		70-130						

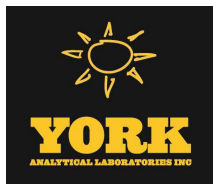
PFAS, EPA 537.1 List

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	Acceptance Range					
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.08		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
307-24-4	* Perfluorohexanoic acid (PFHxA)	7.64		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	4.00		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	20.5		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
335-67-1	Perfluorooctanoic acid (PFOA)	6.07		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 18:33	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	14.3	PFOS-X	10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 18:33	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	



Sample Information

Client Sample ID: WELL 1-3

York Sample ID: 21J0181-04

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 8:00 am	<u>Date Received</u> 10/05/2021
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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						
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 18:33	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: <i>d5-N-EtFOSAA</i>	109 %	70-130
Surrogate: <i>13C-PFDA</i>	117 %	70-130
Surrogate: <i>13C-PFHxA</i>	99.6 %	70-130
Surrogate: <i>M3HFPO-DA</i>	88.6 %	70-130

Sample Information

Client Sample ID: WELL 2-1

York Sample ID: 21J0181-05

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 8:15 am	<u>Date Received</u> 10/05/2021
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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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/14/2021 07:41	AH
							Certifications:	NELAC-NY10854	10/14/2021 15:19	

Surrogate Recoveries

Result

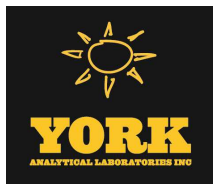
Acceptance Range

Surrogate: <i>1,4-Dioxane-d8</i>	80.0 %	70-130
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PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WELL 2-1

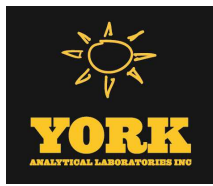
York Sample ID: 21J0181-05

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 8:15 am	<u>Date Received</u> 10/05/2021
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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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.85	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 18:46	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.85	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 18:46	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 18:46	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	104 %	70-130
Surrogate: 13C-PFDA	111 %	70-130
Surrogate: 13C-PFHxA	95.7 %	70-130
Surrogate: M3HFPO-DA	85.5 %	70-130



Sample Information

Client Sample ID: WELL 2-2

York Sample ID: 21J0181-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 8:30 am

10/05/2021

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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46	AH
							Certifications: NELAC-NY10854		10/11/2021 22:17	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	92.0 %		70-130						

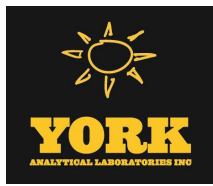
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 19:12	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 19:12	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:12	



Sample Information

Client Sample ID: WELL 2-2

York Sample ID: 21J0181-06

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 8:30 am	<u>Date Received</u> 10/05/2021
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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		Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Units				
13252-13-6	* HFPO-DA (Gen-X)	ND		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:12	WL
919005-14-4	* ADONA	ND		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:12	WL
Surrogate Recoveries		Result	Acceptance Range						
	Surrogate: d5-N-EtFOSAA	110 %	70-130						
	Surrogate: 13C-PFDA	104 %	70-130						
	Surrogate: 13C-PFHxA	97.5 %	70-130						
	Surrogate: M3HFPO-DA	85.9 %	70-130						

Sample Information

Client Sample ID: WELL 2-2 FIELD BLANK

York Sample ID: 21J0181-07

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 8:30 am	<u>Date Received</u> 10/05/2021
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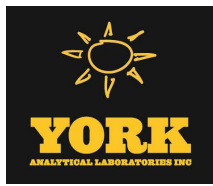
PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Units				
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10	ng/L	1.89	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 19:25	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10	ng/L	1.89	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 19:25	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:25	WL



Sample Information

Client Sample ID: WELL 2-2 FIELD BLANK

York Sample ID: 21J0181-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 8:30 am

10/05/2021

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						
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	
919005-14-4	* ADONA	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:25	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

95.3 %

70-130

Surrogate: 13C-PFDA

99.3 %

70-130

Surrogate: 13C-PFHxA

93.5 %

70-130

Surrogate: M3HFPO-DA

81.4 %

70-130

Sample Information

Client Sample ID: WELL 3-1

York Sample ID: 21J0181-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 8:45 am

10/05/2021

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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46	AH
							Certifications:	NELAC-NY10854	10/11/2021 22:38	

Surrogate Recoveries

Result

Acceptance Range

17647-74-4 Surrogate: 1,4-Dioxane-d8

92.0 %

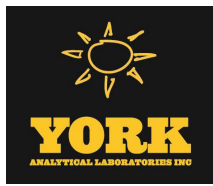
70-130

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:





Sample Information

Client Sample ID: WELL 3-1

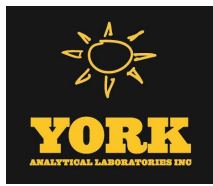
York Sample ID: 21J0181-08

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 8:45 am	<u>Date Received</u> 10/05/2021
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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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.85	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 19:38	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.85	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 19:38	WL
375-95-1	* Perfluorononanoic acid (PFNA)	2.10		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 19:38	WL

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	100 %	70-130
Surrogate: 13C-PFDA	112 %	70-130
Surrogate: 13C-PFHxA	96.2 %	70-130
Surrogate: M3HFPO-DA	86.9 %	70-130



Sample Information

Client Sample ID: WELL 3-2

York Sample ID: 21J0181-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 9:00 am

10/05/2021

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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46	AH
							Certifications: NELAC-NY10854		10/11/2021 22:57	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	96.0 %		70-130						

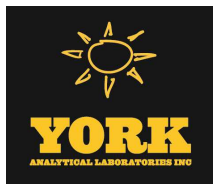
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	1.93		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 19:51	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	5.36		10		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 19:51	
375-95-1	* Perfluorononanoic acid (PFNA)	5.92		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 19:51	



Sample Information

Client Sample ID: WELL 3-2

York Sample ID: 21J0181-09

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 9:00 am	<u>Date Received</u> 10/05/2021
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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						
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:51	WL
919005-14-4	* ADONA	ND		0		ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 19:51	WL
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: d5-N-EtFOSAA	86.4 %	70-130							
	Surrogate: 13C-PFDA	98.4 %	70-130							
	Surrogate: 13C-PFHxA	85.3 %	70-130							
	Surrogate: M3HFPO-DA	79.4 %	70-130							

Sample Information

Client Sample ID: WELL 3-3

York Sample ID: 21J0181-10

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 9:15 am	<u>Date Received</u> 10/05/2021
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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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46 10/11/2021 23:18	AH
	Surrogate Recoveries	Result	Acceptance Range							
17647-74-4	Surrogate: 1,4-Dioxane-d8	92.0 %	70-130							

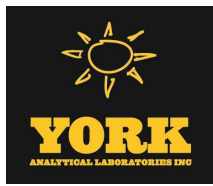
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54 10/14/2021 20:04	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	2.94		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54 10/14/2021 20:04	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54 10/14/2021 20:04	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	3.14		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54 10/14/2021 20:04	WL



Sample Information

Client Sample ID: WELL 3-3

York Sample ID: 21J0181-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 9:15 am

10/05/2021

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						
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications: NELAC-NY12058	10/14/2021 20:04	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.91		10		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications: NELAC-NY12058	10/14/2021 20:04	
375-95-1	* Perfluorononanoic acid (PFNA)	6.35		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
919005-14-4	* ADONA	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 20:04	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: d5-N-EtFOSAA	99.2 %		70-130						
	Surrogate: 13C-PFDA	114 %		70-130						
	Surrogate: 13C-PFHxA	99.1 %		70-130						
	Surrogate: M3HFPO-DA	90.3 %		70-130						

Sample Information

Client Sample ID: WELL 3-3 FIELD BLANK

York Sample ID: 21J0181-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

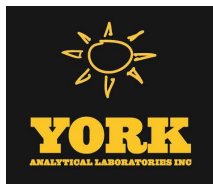
21J0181

UCMR 3

Drinking Water

October 5, 2021 9:15 am

10/05/2021



Sample Information

Client Sample ID: WELL 3-3 FIELD BLANK

York Sample ID: 21J0181-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 9:15 am

10/05/2021

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.85	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 20:30	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.85	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 20:30	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:30	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

94.5 %

70-130

Surrogate: 13C-PFDA

103 %

70-130

Surrogate: 13C-PFHxA

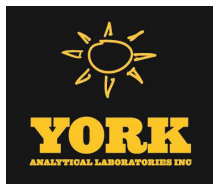
89.6 %

70-130

Surrogate: M3HFPO-DA

81.9 %

70-130



Sample Information

Client Sample ID: WELL 4-1

York Sample ID: 21J0181-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 9:30 am

10/05/2021

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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46	AH
							Certifications: NELAC-NY10854		10/11/2021 23:39	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	84.0 %		70-130						

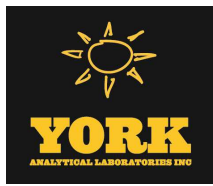
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 20:43	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 20:43	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 20:43	



Sample Information

Client Sample ID: WELL 4-1

York Sample ID: 21J0181-12

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 9:30 am	<u>Date Received</u> 10/05/2021
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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						
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:43	WL
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 20:43	WL
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: d5-N-EtFOSAA	101 %	70-130							
	Surrogate: 13C-PFDA	108 %	70-130							
	Surrogate: 13C-PFHxA	96.6 %	70-130							
	Surrogate: M3HFPO-DA	86.2 %	70-130							

Sample Information

Client Sample ID: WELL 4-2

York Sample ID: 21J0181-13

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 9:45 am	<u>Date Received</u> 10/05/2021
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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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46 10/11/2021 23:59	AH
	Surrogate: 1,4-Dioxane-d8	84.0 %	70-130							

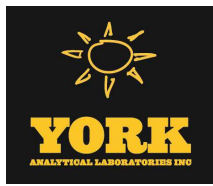
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 21:09	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 21:09	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 21:09	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 21:09	WL



Sample Information

Client Sample ID: WELL 4-2

York Sample ID: 21J0181-13

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 9:45 am	<u>Date Received</u> 10/05/2021
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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						
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications: NELAC-NY12058	10/14/2021 21:09	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications: NELAC-NY12058	10/14/2021 21:09	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								Certifications:	10/14/2021 21:09	

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA	109 %	70-130
Surrogate: 13C-PFDA	121 %	70-130
Surrogate: 13C-PFHxA	107 %	70-130
Surrogate: M3HFPO-DA	94.4 %	70-130

Sample Information

Client Sample ID: WELL 4-2 FIELD BLANK

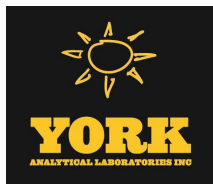
York Sample ID: 21J0181-14

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 9:45 am	<u>Date Received</u> 10/05/2021
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PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: WELL 4-2 FIELD BLANK

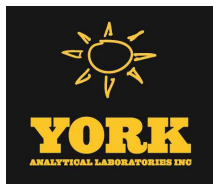
York Sample ID: 21J0181-14

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 9:45 am	<u>Date Received</u> 10/05/2021
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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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:	NELAC-NY12058	10/14/2021 21:35	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:	NELAC-NY12058	10/14/2021 21:35	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
763051-92-9	* 11CL-PF3OUs	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	
919005-14-4	* ADONA	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:35	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	101 %	70-130
Surrogate: 13C-PFDA	107 %	70-130
Surrogate: 13C-PFHxA	103 %	70-130
Surrogate: M3HFPO-DA	92.7 %	70-130



Sample Information

Client Sample ID: WELL 5-1

York Sample ID: 21J0181-15

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 10:00 am

10/05/2021

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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46	AH
							Certifications: NELAC-NY10854		10/12/2021 00:20	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	88.0 %		70-130						

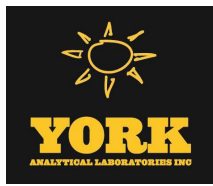
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 21:48	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.86		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications: NELAC-NY12058		10/14/2021 21:48	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
							Certifications:		10/14/2021 21:48	



Sample Information

Client Sample ID: WELL 5-1

York Sample ID: 21J0181-15

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 10:00 am	<u>Date Received</u> 10/05/2021
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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		Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Units				
13252-13-6	* HFPO-DA (Gen-X)	ND		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 21:48	WL
919005-14-4	* ADONA	ND		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54 10/14/2021 21:48	WL
Surrogate Recoveries		Result	Acceptance Range						
	Surrogate: d5-N-EtFOSAA	102 %	70-130						
	Surrogate: 13C-PFDA	111 %	70-130						
	Surrogate: 13C-PFHxA	103 %	70-130						
	Surrogate: M3HFPO-DA	89.2 %	70-130						

Sample Information

Client Sample ID: WELL 5-1 FIELD BLANK

York Sample ID: 21J0181-16

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 10:00 am	<u>Date Received</u> 10/05/2021
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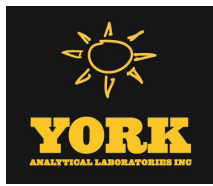
PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Units				
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10	ng/L	1.89	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 22:01	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10	ng/L	1.89	EPA 537.1 NELAC-NY12058	10/13/2021 12:54 10/14/2021 22:01	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54 10/14/2021 22:01	WL



Sample Information

Client Sample ID: WELL 5-1 FIELD BLANK

York Sample ID: 21J0181-16

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 10:00 am	<u>Date Received</u> 10/05/2021
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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		Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Units				
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	
2355-31-9	* N-MeFOSAA	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	
2991-50-6	* N-EtFOSAA	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	
756426-58-1	* 9CL-PF3ONS	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	
763051-92-9	* 11CL-PF3OUdS	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	
13252-13-6	* HFPO-DA (Gen-X)	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	
919005-14-4	* ADONA	ND		0	ng/L	1.89	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:01	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	110 %	70-130
Surrogate: 13C-PFDA	111 %	70-130
Surrogate: 13C-PFHxA	105 %	70-130
Surrogate: M3HFPO-DA	89.5 %	70-130

Sample Information

Client Sample ID: BLEND INF MAIN PLANT GAC

York Sample ID: 21J0181-17

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 10:15 am	<u>Date Received</u> 10/05/2021
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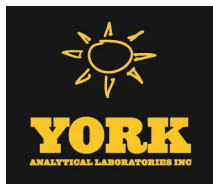
PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Reported to LOQ	Reference Method	Date/Time Prep/Anal	Analyst
				MCL	Units				
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	2.57		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:14	
307-24-4	* Perfluorohexanoic acid (PFHxA)	7.98		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:14	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	5.67		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:14	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	24.9		0	ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
								10/14/2021 22:14	



Sample Information

Client Sample ID: BLEND INF MAIN PLANT GAC

York Sample ID: 21J0181-17

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 10:15 am	<u>Date Received</u> 10/05/2021
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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						
335-67-1	Perfluorooctanoic acid (PFOA)	9.74		10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:	NELAC-NY12058		10/14/2021 22:14	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	99.0	PFOS-X	10		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:	NELAC-NY12058		10/14/2021 22:14	
375-95-1	* Perfluorononanoic acid (PFNA)	14.3		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	
919005-14-4	* ADONA	ND		0		ng/L	1.85	EPA 537.1	10/13/2021 12:54	WL
						Certifications:			10/14/2021 22:14	

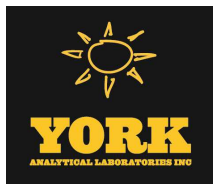
Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	99.0 %	70-130
Surrogate: 13C-PFDA	106 %	70-130
Surrogate: 13C-PFHxA	96.2 %	70-130
Surrogate: M3HFPO-DA	86.2 %	70-130

Sample Information

Client Sample ID: BLEND INF MAIN PLANT GAC FB

York Sample ID: 21J0181-18

<u>York Project (SDG) No.</u> 21J0181	<u>Client Project ID</u> UCMR 3	<u>Matrix</u> Drinking Water	<u>Collection Date/Time</u> October 5, 2021 10:15 am	<u>Date Received</u> 10/05/2021
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Sample Information

Client Sample ID: BLEND INF MAIN PLANT GAC FB

York Sample ID: 21J0181-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 10:15 am

10/05/2021

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	2.08	EPA 537.1 NELAC-NY12058	10/13/2021 15:41 10/14/2021 23:07	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	2.08	EPA 537.1 NELAC-NY12058	10/13/2021 15:41 10/14/2021 23:07	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
2355-31-9	* N-MeFOSAA	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
2991-50-6	* N-EtFOSAA	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL
919005-14-4	* ADONA	ND		0		ng/L	2.08	EPA 537.1	10/13/2021 15:41 10/14/2021 23:07	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

93.1 %

70-130

Surrogate: 13C-PFDA

107 %

70-130

Surrogate: 13C-PFHxA

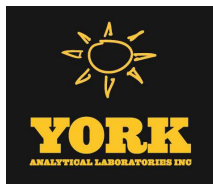
97.9 %

70-130

Surrogate: M3HFPO-DA

84.4 %

70-130



Sample Information

Client Sample ID: BLEND EFF MAIN PLANT GAC

York Sample ID: 21J0181-19

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 10:30 am

10/05/2021

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						
123-91-1	1,4-Dioxane	ND		1		ug/L	0.200	EPA 522	10/11/2021 07:46	AH
						Certifications:	NELAC-NY10854		10/14/2021 11:44	
	Surrogate Recoveries	Result		Acceptance Range						
17647-74-4	Surrogate: 1,4-Dioxane-d8	100 %		70-130						

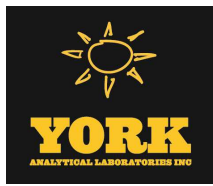
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:	NELAC-NY12058		10/14/2021 23:20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:	NELAC-NY12058		10/14/2021 23:20	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
72629-94-8	* Perfluorotridecanoic acid (PFTTrDA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.79	EPA 537.1	10/13/2021 15:41	WL
						Certifications:			10/14/2021 23:20	



Sample Information

Client Sample ID: BLEND EFF MAIN PLANT GAC

York Sample ID: 21J0181-19

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 21J0181, UCMR 3, Drinking Water, October 5, 2021 10:30 am, 10/05/2021

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Main data table for PFAS analysis with columns: CAS No., Parameter, Result, Flag, MCL, Units, Reported to LOQ, Reference Method, Date/Time Prep/Anal, Analyst. Includes surrogate recoveries table at the bottom.

Sample Information

Client Sample ID: BLEND EFF MAIN PLANT GAC FB

York Sample ID: 21J0181-20

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 21J0181, UCMR 3, Drinking Water, October 5, 2021 10:30 am, 10/05/2021

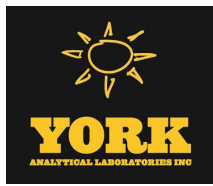
PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Main data table for PFAS analysis with columns: CAS No., Parameter, Result, Flag, MCL, Units, Reported to LOQ, Reference Method, Date/Time Prep/Anal, Analyst.



Sample Information

Client Sample ID: BLEND EFF MAIN PLANT GAC FB **York Sample ID:** 21J0181-20
York Project (SDG) No.: 21J0181 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** October 5, 2021 10:30 am **Date Received:** 10/05/2021

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						
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
919005-14-4	* ADONA	ND		0		ng/L	1.92	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/14/2021 23:59	
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: d5-N-EtFOSAA	89.8 %		70-130						
	Surrogate: 13C-PFDA	99.0 %		70-130						
	Surrogate: 13C-PFHxA	94.5 %		70-130						
	Surrogate: M3HFPO-DA	82.3 %		70-130						

Sample Information

Client Sample ID: BLEND EFF PLANT #3 **York Sample ID:** 21J0181-21
York Project (SDG) No.: 21J0181 **Client Project ID:** UCMR 3 **Matrix:** Drinking Water **Collection Date/Time:** October 5, 2021 10:45 am **Date Received:** 10/05/2021

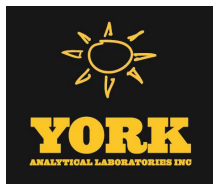
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/15/2021 00:12	
307-24-4	* Perfluorohexanoic acid (PFHxA)	1.88		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/15/2021 00:12	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/15/2021 00:12	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	2.48		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
							Certifications:		10/15/2021 00:12	



Sample Information

Client Sample ID: BLEND EFF PLANT #3

York Sample ID: 21J0181-21

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

21J0181

UCMR 3

Drinking Water

October 5, 2021 10:45 am

10/05/2021

PFAS, EPA 537.1 List

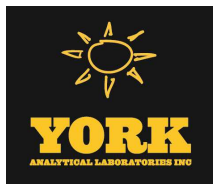
Log-in Notes:

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						
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications: NELAC-NY12058	10/15/2021 00:12	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.75		10		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications: NELAC-NY12058	10/15/2021 00:12	
375-95-1	* Perfluorononanoic acid (PFNA)	4.41		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	
919005-14-4	* ADONA	ND		0		ng/L	1.49	EPA 537.1	10/13/2021 15:41	WL
								Certifications:	10/15/2021 00:12	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	92.0 %	70-130
Surrogate: 13C-PFDA	100 %	70-130
Surrogate: 13C-PFHxA	94.4 %	70-130
Surrogate: M3HFPO-DA	81.5 %	70-130



Analytical Batch Summary

Batch ID: BJ10531 **Preparation Method:** EPA 522 **Prepared By:** SJB

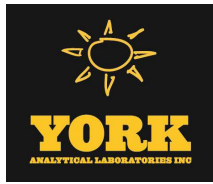
YORK Sample ID	Client Sample ID	Preparation Date
21J0181-06	WELL 2-2	10/11/21
21J0181-08	WELL 3-1	10/11/21
21J0181-09	WELL 3-2	10/11/21
21J0181-10	WELL 3-3	10/11/21
21J0181-12	WELL 4-1	10/11/21
21J0181-13	WELL 4-2	10/11/21
21J0181-15	WELL 5-1	10/11/21
21J0181-19	BLEND EFF MAIN PLANT G	10/11/21
BJ10531-BLK1	Blank	10/11/21
BJ10531-BS1	LCS	10/11/21
BJ10531-BS2	LCS	10/11/21
BJ10531-DUP1	Duplicate	10/11/21
BJ10531-MS1	Matrix Spike	10/11/21

Batch ID: BJ10749 **Preparation Method:** EPA 537.1 SPE DVB **Prepared By:** ER

YORK Sample ID	Client Sample ID	Preparation Date
21J0181-01	WELL 1-1	10/13/21
21J0181-02	WELL 1-1 FIELD BLANK	10/13/21
21J0181-03	WELL 1-2	10/13/21
21J0181-04	WELL 1-3	10/13/21
21J0181-05	WELL 2-1	10/13/21
21J0181-06	WELL 2-2	10/13/21
21J0181-07	WELL 2-2 FIELD BLANK	10/13/21
21J0181-08	WELL 3-1	10/13/21
21J0181-09	WELL 3-2	10/13/21
21J0181-10	WELL 3-3	10/13/21
21J0181-11	WELL 3-3 FIELD BLANK	10/13/21
21J0181-12	WELL 4-1	10/13/21
21J0181-13	WELL 4-2	10/13/21
21J0181-14	WELL 4-2 FIELD BLANK	10/13/21
21J0181-15	WELL 5-1	10/13/21
21J0181-16	WELL 5-1 FIELD BLANK	10/13/21
21J0181-17	BLEND INF MAIN PLANT G.	10/13/21
BJ10749-BLK1	Blank	10/13/21
BJ10749-BS1	LCS	10/13/21
BJ10749-DUP1	Duplicate	10/13/21
BJ10749-MS1	Matrix Spike	10/13/21

Batch ID: BJ10775 **Preparation Method:** EPA 537.1 SPE DVB **Prepared By:** ER

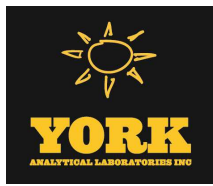
YORK Sample ID	Client Sample ID	Preparation Date
21J0181-18	BLEND INF MAIN PLANT G.	10/13/21
21J0181-19	BLEND EFF MAIN PLANT G	10/13/21
21J0181-20	BLEND EFF MAIN PLANT G	10/13/21



21J0181-21	BLEND EFF PLANT #3	10/13/21
BJ10775-BLK1	Blank	10/13/21
BJ10775-BS1	LCS	10/13/21
BJ10775-BS2	LCS	10/13/21
BJ10775-DUP1	Duplicate	10/13/21
BJ10775-MS1	Matrix Spike	10/13/21

Batch ID: BJ10800 **Preparation Method:** EPA 522 **Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21J0181-01	WELL 1-1	10/14/21
21J0181-03	WELL 1-2	10/14/21
21J0181-04	WELL 1-3	10/14/21
21J0181-05	WELL 2-1	10/14/21
BJ10800-BLK1	Blank	10/14/21
BJ10800-BS1	LCS	10/14/21
BJ10800-BS2	LCS	10/14/21
BJ10800-DUP1	Duplicate	10/14/21
BJ10800-MS1	Matrix Spike	10/14/21



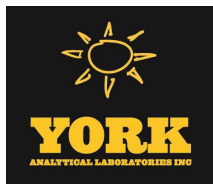
Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10531 - EPA 522											
Blank (BJ10531-BLK1)											Prepared & Analyzed: 10/11/2021
1,4-Dioxane	ND	0.200	ug/L								
Surrogate: 1,4-Dioxane-d8	4.20		"	5.00		84.0	70-130				
LCS (BJ10531-BS1)											Prepared & Analyzed: 10/11/2021
1,4-Dioxane	8.80	0.200	ug/L	10.0		88.0	70-130				
Surrogate: 1,4-Dioxane-d8	4.20		"	5.00		84.0	70-130				
LCS (BJ10531-BS2)											Prepared & Analyzed: 10/11/2021
1,4-Dioxane	2.50	0.200	ug/L	2.00		125	70-130				
Surrogate: 1,4-Dioxane-d8	4.40		"	5.00		88.0	70-130				
Duplicate (BJ10531-DUP1)											*Source sample: 2111412-01 (Duplicate) Prepared & Analyzed: 10/11/2021
1,4-Dioxane	ND	0.200	ug/L		ND						30
Surrogate: 1,4-Dioxane-d8	4.00		"	5.00		80.0	70-130				
Matrix Spike (BJ10531-MS1)											*Source sample: 2111412-01 (Matrix Spike) Prepared & Analyzed: 10/11/2021
1,4-Dioxane	9.76	0.200	ug/L	10.0	ND	97.6	70-130				
Surrogate: 1,4-Dioxane-d8	4.00		"	5.00		80.0	70-130				
Batch BJ10800 - EPA 522											
Blank (BJ10800-BLK1)											Prepared & Analyzed: 10/14/2021
1,4-Dioxane	ND	0.200	ug/L								
Surrogate: 1,4-Dioxane-d8	4.60		"	5.00		92.0	70-130				
LCS (BJ10800-BS1)											Prepared & Analyzed: 10/14/2021
1,4-Dioxane	9.32	0.200	ug/L	10.0		93.2	70-130				
Surrogate: 1,4-Dioxane-d8	4.40		"	5.00		88.0	70-130				



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 BJ10800 - EPA 522											
LCS (BJ10800-BS2)						Prepared & Analyzed: 10/14/2021					
1,4-Dioxane	18.4	0.200	ug/L	20.0		92.0	70-130				
Surrogate: 1,4-Dioxane-d8	4.40		"	5.00		88.0	70-130				
Duplicate (BJ10800-DUP1)						*Source sample: 21J0181-01 (WELL 1-1) Prepared & Analyzed: 10/14/2021					
1,4-Dioxane	ND	0.200	ug/L		ND					30	
Surrogate: 1,4-Dioxane-d8	4.40		"	5.00		88.0	70-130				
Matrix Spike (BJ10800-MS1)						*Source sample: 21J0181-01 (WELL 1-1) Prepared & Analyzed: 10/14/2021					
1,4-Dioxane	9.16	0.200	ug/L	10.0	ND	91.6	70-130				
Surrogate: 1,4-Dioxane-d8	4.80		"	5.00		96.0	70-130				



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10749 - EPA 537.1 SPE DVB

Blank (BJ10749-BLK1)

Prepared: 10/13/2021 Analyzed: 10/14/2021

Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTriDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
9CL-PF3ONS	ND	2.00	"								
11CL-PF3OUdS	ND	2.00	"								
HFPO-DA (Gen-X)	ND	2.00	"								
ADONA	ND	2.00	"								
Surrogate: d5-N-EtFOSAA	311		"	320		97.2	70-130				
Surrogate: 13C-PFDA	83.4		"	80.0		104	70-130				
Surrogate: 13C-PFHxA	78.3		"	80.0		97.8	70-130				
Surrogate: M3HFPO-DA	69.2		"	80.0		86.5	70-130				

LCS (BJ10749-BS1)

Prepared: 10/13/2021 Analyzed: 10/14/2021

Perfluorobutanesulfonic acid (PFBS)	65.0	2.00	ng/L	70.8		91.8	70-130				
Perfluorohexanoic acid (PFHxA)	83.4	2.00	"	80.0		104	70-130				
Perfluoroheptanoic acid (PFHpA)	84.1	2.00	"	80.0		105	70-130				
Perfluorohexanesulfonic acid (PFHxS)	74.5	2.00	"	76.0		98.0	70-130				
Perfluorooctanoic acid (PFOA)	90.4	2.00	"	80.0		113	70-130				
Perfluorooctanesulfonic acid (PFOS)	84.0	2.00	"	76.8		109	70-130				
Perfluorononanoic acid (PFNA)	92.6	2.00	"	80.0		116	70-130				
Perfluorodecanoic acid (PFDA)	92.1	2.00	"	80.0		115	70-130				
Perfluoroundecanoic acid (PFUnA)	92.0	2.00	"	80.0		115	70-130				
Perfluorododecanoic acid (PFDoA)	98.4	2.00	"	80.0		123	70-130				
Perfluorotridecanoic acid (PFTriDA)	86.8	2.00	"	80.0		109	70-130				
Perfluorotetradecanoic acid (PFTA)	92.7	2.00	"	80.0		116	70-130				
N-MeFOSAA	81.0	2.00	"	80.0		101	70-130				
N-EtFOSAA	84.2	2.00	"	80.0		105	70-130				
9CL-PF3ONS	82.8	2.00	"	74.8		111	60-130				
11CL-PF3OUdS	89.8	2.00	"	75.6		119	60-130				
HFPO-DA (Gen-X)	75.3	2.00	"	80.0		94.1	60-130				
ADONA	79.9	2.00	"	75.6		106	60-130				
Surrogate: d5-N-EtFOSAA	323		"	320		101	70-130				
Surrogate: 13C-PFDA	95.3		"	80.0		119	70-130				
Surrogate: 13C-PFHxA	86.7		"	80.0		108	70-130				
Surrogate: M3HFPO-DA	76.4		"	80.0		95.5	70-130				



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BJ10749 - EPA 537.1 SPE DVB												
Duplicate (BJ10749-DUP1)		*Source sample: 21J0181-12 (WELL 4-1)						Prepared: 10/13/2021 Analyzed: 10/14/2021				
Perfluorobutanesulfonic acid (PFBS)	ND	1.85	ng/L		ND					25		
Perfluorohexanoic acid (PFHxA)	0.930	1.85	"		ND					25		
Perfluoroheptanoic acid (PFHpA)	ND	1.85	"		ND					25		
Perfluorohexanesulfonic acid (PFHxS)	ND	1.85	"		ND					25		
Perfluorooctanoic acid (PFOA)	ND	1.85	"		ND					25		
Perfluorooctanesulfonic acid (PFOS)	ND	1.85	"		ND					25		
Perfluorononanoic acid (PFNA)	ND	1.85	"		ND					25		
Perfluorodecanoic acid (PFDA)	ND	1.85	"		ND					25		
Perfluoroundecanoic acid (PFUnA)	ND	1.85	"		ND					25		
Perfluorododecanoic acid (PFDoA)	ND	1.85	"		ND					25		
Perfluorotridecanoic acid (PFTriDA)	ND	1.85	"		ND					25		
Perfluorotetradecanoic acid (PFTA)	ND	1.85	"		ND					25		
N-MeFOSAA	ND	1.85	"		ND					25		
N-EtFOSAA	ND	1.85	"		ND					25		
9CL-PF3ONS	ND	1.85	"		ND					25		
11CL-PF3OUdS	ND	1.85	"		ND					25		
HFPO-DA (Gen-X)	ND	1.85	"		ND					25		
ADONA	ND	1.85	"		ND					25		
<i>Surrogate: d5-N-EtFOSAA</i>	299		"	296		101	70-130					
<i>Surrogate: 13C-PFDA</i>	84.1		"	74.1		114	70-130					
<i>Surrogate: 13C-PFHxA</i>	77.1		"	74.1		104	70-130					
<i>Surrogate: M3HFPO-DA</i>	69.5		"	74.1		93.9	70-130					
Matrix Spike (BJ10749-MS1)		*Source sample: 21J0181-10 (WELL 3-3)						Prepared: 10/13/2021 Analyzed: 10/14/2021				
Perfluorobutanesulfonic acid (PFBS)	54.4	1.85	ng/L	65.6	1.66	80.5	70-130					
Perfluorohexanoic acid (PFHxA)	74.9	1.85	"	74.1	2.94	97.1	70-130					
Perfluoroheptanoic acid (PFHpA)	76.4	1.85	"	74.1	1.14	102	70-130					
Perfluorohexanesulfonic acid (PFHxS)	67.0	1.85	"	70.4	3.14	90.8	70-130					
Perfluorooctanoic acid (PFOA)	79.2	1.85	"	74.1	1.63	105	70-130					
Perfluorooctanesulfonic acid (PFOS)	72.8	1.85	"	71.1	3.91	96.8	70-130					
Perfluorononanoic acid (PFNA)	89.0	1.85	"	74.1	6.35	112	70-130					
Perfluorodecanoic acid (PFDA)	79.1	1.85	"	74.1	ND	107	70-130					
Perfluoroundecanoic acid (PFUnA)	75.7	1.85	"	74.1	ND	102	70-130					
Perfluorododecanoic acid (PFDoA)	81.7	1.85	"	74.1	ND	110	70-130					
Perfluorotridecanoic acid (PFTriDA)	62.6	1.85	"	74.1	ND	84.5	70-130					
Perfluorotetradecanoic acid (PFTA)	44.9	1.85	"	74.1	ND	60.6	70-130	Low Bias				
N-MeFOSAA	71.0	1.85	"	74.1	ND	95.8	70-130					
N-EtFOSAA	70.3	1.85	"	74.1	ND	94.9	70-130					
9CL-PF3ONS	65.6	1.85	"	69.3	ND	94.7	70-130					
11CL-PF3OUdS	74.3	1.85	"	70.0	ND	106	70-130					
HFPO-DA (Gen-X)	65.4	1.85	"	74.1	ND	88.3	70-130					
ADONA	68.4	1.85	"	70.0	ND	97.7	50-130					
<i>Surrogate: d5-N-EtFOSAA</i>	281		"	296		94.7	70-130					
<i>Surrogate: 13C-PFDA</i>	80.4		"	74.1		109	70-130					
<i>Surrogate: 13C-PFHxA</i>	74.1		"	74.1		100	70-130					
<i>Surrogate: M3HFPO-DA</i>	67.6		"	74.1		91.2	70-130					



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10775 - EPA 537.1 SPE DVB

Blank (BJ10775-BLK1)

Prepared: 10/13/2021 Analyzed: 10/14/2021

Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTriDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
9CL-PF3ONS	ND	2.00	"								
11CL-PF3OUdS	ND	2.00	"								
HFPO-DA (Gen-X)	ND	2.00	"								
ADONA	ND	2.00	"								
Surrogate: d5-N-EtFOSAA	327		"	320		102	70-130				
Surrogate: 13C-PFDA	80.4		"	80.0		101	70-130				
Surrogate: 13C-PFHxA	75.2		"	80.0		94.0	70-130				
Surrogate: M3HFPO-DA	68.0		"	80.0		85.0	70-130				

LCS (BJ10775-BS1)

Prepared: 10/13/2021 Analyzed: 10/14/2021

Perfluorobutanesulfonic acid (PFBS)	60.7	2.00	ng/L	70.8		85.8	70-130				
Perfluorohexanoic acid (PFHxA)	76.2	2.00	"	80.0		95.3	70-130				
Perfluoroheptanoic acid (PFHpA)	78.0	2.00	"	80.0		97.5	70-130				
Perfluorohexanesulfonic acid (PFHxS)	74.7	2.00	"	76.0		98.2	70-130				
Perfluorooctanoic acid (PFOA)	83.3	2.00	"	80.0		104	70-130				
Perfluorooctanesulfonic acid (PFOS)	74.4	2.00	"	76.8		96.9	70-130				
Perfluorononanoic acid (PFNA)	81.4	2.00	"	80.0		102	70-130				
Perfluorodecanoic acid (PFDA)	83.6	2.00	"	80.0		104	70-130				
Perfluoroundecanoic acid (PFUnA)	84.7	2.00	"	80.0		106	70-130				
Perfluorododecanoic acid (PFDoA)	88.9	2.00	"	80.0		111	70-130				
Perfluorotridecanoic acid (PFTriDA)	87.6	2.00	"	80.0		110	70-130				
Perfluorotetradecanoic acid (PFTA)	93.4	2.00	"	80.0		117	70-130				
N-MeFOSAA	80.1	2.00	"	80.0		100	70-130				
N-EtFOSAA	81.1	2.00	"	80.0		101	70-130				
9CL-PF3ONS	76.9	2.00	"	74.8		103	60-130				
11CL-PF3OUdS	80.7	2.00	"	75.6		107	60-130				
HFPO-DA (Gen-X)	69.1	2.00	"	80.0		86.4	60-130				
ADONA	74.6	2.00	"	75.6		98.7	60-130				
Surrogate: d5-N-EtFOSAA	328		"	320		102	70-130				
Surrogate: 13C-PFDA	87.5		"	80.0		109	70-130				
Surrogate: 13C-PFHxA	80.3		"	80.0		100	70-130				
Surrogate: M3HFPO-DA	72.4		"	80.0		90.5	70-130				



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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10775 - EPA 537.1 SPE DVB

LCS (BJ10775-BS2)

Prepared: 10/13/2021 Analyzed: 10/14/2021

Perfluorobutanesulfonic acid (PFBS)	30.3	2.00	ng/L	35.4		85.5	70-130				
Perfluorohexanoic acid (PFHxA)	34.7	2.00	"	40.0		86.8	70-130				
Perfluoroheptanoic acid (PFHpA)	35.5	2.00	"	40.0		88.7	70-130				
Perfluorohexanesulfonic acid (PFHxS)	36.5	2.00	"	38.0		96.1	70-130				
Perfluorooctanoic acid (PFOA)	37.4	2.00	"	40.0		93.6	70-130				
Perfluorooctanesulfonic acid (PFOS)	36.1	2.00	"	38.4		94.0	70-130				
Perfluorononanoic acid (PFNA)	38.7	2.00	"	40.0		96.8	70-130				
Perfluorodecanoic acid (PFDA)	37.6	2.00	"	40.0		94.1	70-130				
Perfluoroundecanoic acid (PFUnA)	35.6	2.00	"	40.0		89.0	70-130				
Perfluorododecanoic acid (PFDoA)	38.6	2.00	"	40.0		96.6	70-130				
Perfluorotridecanoic acid (PFTriDA)	36.5	2.00	"	40.0		91.2	70-130				
Perfluorotetradecanoic acid (PFTA)	36.2	2.00	"	40.0		90.5	70-130				
N-MeFOSAA	33.5	2.00	"	40.0		83.7	70-130				
N-EtFOSAA	33.7	2.00	"	40.0		84.2	70-130				
9CL-PF3ONS	36.9	2.00	"	37.4		98.7	60-130				
11CL-PF3OUdS	35.1	2.00	"	37.8		92.9	60-130				
HFPO-DA (Gen-X)	29.5	2.00	"	40.0		73.8	60-130				
ADONA	35.2	2.00	"	37.8		93.0	60-130				
Surrogate: d5-N-EtFOSAA	309		"	320		96.6	70-130				
Surrogate: 13C-PFDA	82.1		"	80.0		103	70-130				
Surrogate: 13C-PFHxA	77.1		"	80.0		96.4	70-130				
Surrogate: M3HFPO-DA	69.5		"	80.0		86.9	70-130				

Duplicate (BJ10775-DUP1)

*Source sample: 21J0181-21 (BLEND EFF PLANT #3)

Prepared: 10/13/2021 Analyzed: 10/15/2021

Perfluorobutanesulfonic acid (PFBS)	1.30	1.52	ng/L		1.28				1.36	25	
Perfluorohexanoic acid (PFHxA)	2.04	1.52	"		1.88				8.53	25	
Perfluoroheptanoic acid (PFHpA)	ND	1.52	"		0.897					25	
Perfluorohexanesulfonic acid (PFHxS)	2.60	1.52	"		2.48				4.54	25	
Perfluorooctanoic acid (PFOA)	1.18	1.52	"		1.09				8.17	25	
Perfluorooctanesulfonic acid (PFOS)	2.83	1.52	"		2.75				3.04	25	
Perfluorononanoic acid (PFNA)	5.03	1.52	"		4.41				13.2	25	
Perfluorodecanoic acid (PFDA)	ND	1.52	"		ND					25	
Perfluoroundecanoic acid (PFUnA)	ND	1.52	"		ND					25	
Perfluorododecanoic acid (PFDoA)	ND	1.52	"		ND					25	
Perfluorotridecanoic acid (PFTriDA)	ND	1.52	"		ND					25	
Perfluorotetradecanoic acid (PFTA)	ND	1.52	"		ND					25	
N-MeFOSAA	ND	1.52	"		ND					25	
N-EtFOSAA	ND	1.52	"		ND					25	
9CL-PF3ONS	ND	1.52	"		ND					25	
11CL-PF3OUdS	ND	1.52	"		ND					25	
HFPO-DA (Gen-X)	ND	1.52	"		ND					25	
ADONA	ND	1.52	"		ND					25	
Surrogate: d5-N-EtFOSAA	224		"	244		91.8	70-130				
Surrogate: 13C-PFDA	68.5		"	61.0		112	70-130				
Surrogate: 13C-PFHxA	60.5		"	61.0		99.3	70-130				
Surrogate: M3HFPO-DA	55.3		"	61.0		90.7	70-130				



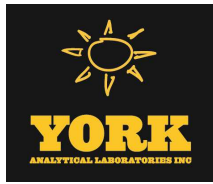
PFAS Target compounds by LC/MS-MS - Quality Control Data

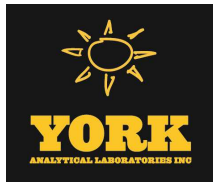
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10775 - EPA 537.1 SPE DVB

Matrix Spike (BJ10775-MS1)	*Source sample: 21J0181-19 (BLEND EFF MAIN PLANT GAC)						Prepared: 10/13/2021 Analyzed: 10/14/2021	
Perfluorobutanesulfonic acid (PFBS)	57.4	1.85	ng/L	65.6	ND	87.5	70-130	
Perfluorohexanoic acid (PFHxA)	70.7	1.85	"	74.1	ND	95.5	70-130	
Perfluoroheptanoic acid (PFHpA)	70.3	1.85	"	74.1	ND	94.9	70-130	
Perfluorohexanesulfonic acid (PFHxS)	65.7	1.85	"	70.4	ND	93.3	70-130	
Perfluorooctanoic acid (PFOA)	75.2	1.85	"	74.1	ND	102	70-130	
Perfluorooctanesulfonic acid (PFOS)	70.6	1.85	"	71.1	ND	99.3	70-130	
Perfluorononanoic acid (PFNA)	72.4	1.85	"	74.1	ND	97.8	70-130	
Perfluorodecanoic acid (PFDA)	74.6	1.85	"	74.1	ND	101	70-130	
Perfluoroundecanoic acid (PFUnA)	70.2	1.85	"	74.1	ND	94.7	70-130	
Perfluorododecanoic acid (PFDoA)	79.8	1.85	"	74.1	ND	108	70-130	
Perfluorotridecanoic acid (PFTriDA)	76.1	1.85	"	74.1	ND	103	70-130	
Perfluorotetradecanoic acid (PFTA)	60.6	1.85	"	74.1	ND	81.8	70-130	
N-MeFOSAA	69.1	1.85	"	74.1	ND	93.2	70-130	
N-EtFOSAA	70.7	1.85	"	74.1	ND	95.5	70-130	
9CL-PF3ONS	68.6	1.85	"	69.3	ND	99.1	70-130	
11CL-PF3OUdS	66.6	1.85	"	70.0	ND	95.1	70-130	
HFPO-DA (Gen-X)	62.2	1.85	"	74.1	ND	83.9	70-130	
ADONA	67.1	1.85	"	70.0	ND	95.9	50-130	
Surrogate: d5-N-EtFOSAA	265		"	296		89.5	70-130	
Surrogate: 13C-PFDA	71.6		"	74.1		96.7	70-130	
Surrogate: 13C-PFHxA	68.9		"	74.1		93.0	70-130	
Surrogate: M3HFPO-DA	60.6		"	74.1		81.7	70-130	



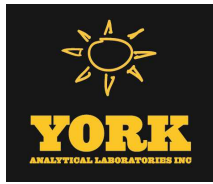


Sample and Data Qualifiers Relating to This Work Order

PFOS-X	The level of PFOS detected in this sample exceeds the NYSDOH Maximum Contaminant Level of 10 ng/L)
PFOA-X	The level of PFOA in this sample exceeds the NYSDOH Maximum Contaminant Level of 10 ng/L)
PFAS-MSL	The recovery for this matrix spike compound was below control limits possibly due to matrix effects or non-homogeneity of the sample verses the native sample

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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Field Chain-of-Custody Record

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

YORK Project No.
 21J0181

Page _____ of _____

YOUR INFORMATION		Report To:		Invoice To:		Turn-Around Time	
Hampton Bays Water District		Hampton Bays Water District		Hampton Bays Water District		RUSH - Next Day	
188 Ponquogue Ave. / PO Box 1013		188 Ponquogue Ave. / PO Box 1013		PO Box 1013		RUSH - Two Day	
Hampton Bays, N.Y. 11946		Hampton Bays, N.Y. 11946		Hampton Bays N.Y. 11946		RUSH - Three Day	
(631) 728-0179 ext. 4213		(631) 728-0179		(631) 728-0179 ext. 4210		RUSH - Four Day	
Keith Tuthill		Keith Tuthill		Stella Michaels		Standard (5-7 Day)	
ktuthillir@southamptontownny.gov		ktuthillir@southamptontownny.gov		smichaels@southamptontownny.gov		YOUR PO#:	

Matrix Codes		Report / EDD Type (circle selections)		YORK Reg. Com	
S - soil / solid		CT RCP		Compared to the following	
GW - groundwater		Standard Excel EDD		Regulation(s): (please fill)	
DW - drinking water		CT RCP DQA/DUE			
WW - wastewater		NY ASP A Package			
O - Oil		NJDEP Reduced			
		Deliverables			
		NJDKQP			
		Other:			

Sample Identification	Sample Matrix	Matrix Codes	Samples From	Summary Report	Analysis Requested	Container Descript
WELL 1-1	GW	S - soil / solid	New York X	QA Report	PEAS, 1-4 DIOX, FIELD BLANK	Plastic, Glass, Plastic
WELL 1-2	GW	GW - groundwater	New Jersey	NY ASP A Package	PEAS, 1-4 DIOX	Plastic, Glass
WELL 1-3	GW	DW - drinking water	Connecticut	NY ASP B Package	PEAS, 1-4 DIOX	Plastic, Glass
WELL 2-1	GW	WW - wastewater	Pennsylvania	Deliverables	PEAS, 1-4 DIOX	Plastic, Glass, Plastic
WELL 2-2	GW	O - Oil	Other	NJDKQP	PEAS, 1-4 DIOX, FIELD BLANK	Plastic, Glass
WELL 3-1	GW				PEAS, 1-4 DIOX	Plastic, Glass
WELL 3-2	GW				PEAS, 1-4 DIOX	Plastic, Glass
WELL 3-3	GW				PEAS, 1-4 DIOX, FIELD BLANK	Plastic, Glass, Plastic
WELL 4-1	GW				PEAS, 1-4 DIOX	Plastic, Glass
WELL 4-2	GW				PEAS, 1-4 DIOX, FB	Plastic, Glass, Plastic

Comments:

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
 ___ Ascorbic Acid ___ Other: ___

Preservation: (check all that apply)

1. Samples Relinquished by / Company: Abbeybrook 10/5/21 11:50AM Date/Time

2. Samples Relinquished by / Company: Abbeybrook 10/5/21 14:10 Date/Time

3. Samples Received by / Company: Abbeybrook 10/5/21 11:50AM Date/Time

4. Samples Received by / Company: Abbeybrook 10/5/21 16:10 Date/Time

Temp. Received at Lab: 4.5 Degree



York Analytical Laboratories, Inc.
 120 Research Drive 132-02 89th Ave
 Stratford, CT 06615 Queens, NY 11418
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

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

YORK Project No.
 21J0181

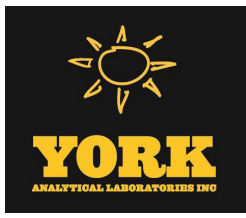
Page _____ of _____

YOUR INFORMATION		Report To:		Invoice To:		Turn-Around Tin	
Hampton Bays Water District 188 Ponquogue Ave. / PO Box 1013 Hampton Bays, N.Y. 11946 (631) 728-0179 ext. 4213 Keith Tuthill		Hampton Bays Water District PO Box 1013 Hampton Bays N.Y. 11946 (631) 728-0179 ext. 4210 Stella Michaels		Hampton Bays Water District PO Box 1013 Hampton Bays N.Y. 11946 (631) 728-0179 ext. 4210 Stella Michaels		RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Day)	
ktuthilljr@southamptontownny.gov		ktuthilljr@southamptontownny.gov		smichaels@southamptontownny.gov		YOUR PO#:	

Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Com	
S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil Other		New York <input checked="" type="checkbox"/> New Jersey Connecticut Pennsylvania Other		Standard Excel EDD EQulS (Standard) NYSDEC EQulS NJDEP SRP HazSite Other:		Compared to the following Regulation(s): (please fill)	
Sample Matrix		Date/Time Sampled		Analysis Requested		Container Descript	
G-W		10/5/21 10:00am		PEAS, 1-4 DUX, FIELD BLANK		Plastic, Glass, Plastic	
G-W		10/5/21 10:15am		PEAS, FIELD BLANK		Plastic, Glass	
G-W		10/5/21 10:30am		PEAS, 1-4 DUX, FIELD BLANK		Plastic, Glass, Plastic	
D-W		10/5/21 10:45am		PFAS		Plastic	

Sample Identification		Preservation: (check all that apply)	
Well 5-1 BLEND INE MAIN PLANT GAS BLEND EFF MAIN PLANT GAS BLEND EFF PLANT #3		HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___	
Comments:		Special Instruction	
		Field Filtered ___ Lab to Filter ___	

1. Samples Relinquished by / Company		Date/Time	
Katharine 10/5/21 11:50AM		10/10	
3. Samples Relinquished by / Company		Date/Time	
4. Samples Received by / Company		Date/Time	
Temp. Received at Lab		Degree	
43.00C		7.5	



Technical Report

for

Emerging Contaminants

prepared for:

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

Report Date: 12/16/2021
Client Project ID: UCMR 3
York Project (SDG) No.: 21L0335

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371



132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 12/16/2021
Client Project ID: UCMR 3
York Project (SDG) No.: 21L0335

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 December 07, 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>
21L0335-01	WELL 5-1 Field Blank	Drinking Water	12/07/2021	12/07/2021
21L0335-02	WELL 5-1	Drinking Water	12/07/2021	12/07/2021

General Notes for York Project (SDG) No.: 21L0335

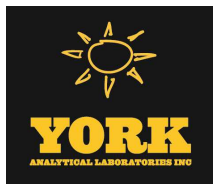
1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.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

Approved By: 

Cassie L. Mosher
Laboratory Manager

Date: 12/16/2021





Sample Information

Client Sample ID: WELL 5-1 Field Blank

York Sample ID: 21L0335-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
21L0335	UCMR 3	Drinking Water	December 7, 2021 8:00 am	12/07/2021

PFAS, EPA 537.1 List

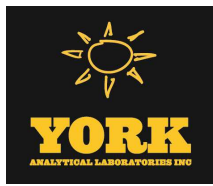
Log-in Notes:

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
								NELAC-NY12058	12/15/2021 23:06	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
								NELAC-NY12058	12/15/2021 23:06	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	
919005-14-4	* ADONA	ND		0		ng/L	1.92	EPA 537.1	12/14/2021 11:08	WL
									12/15/2021 23:06	

Surrogate Recoveries	Result	Acceptance Range
Surrogate: d5-N-EtFOSAA	117 %	70-130
Surrogate: 13C-PFDA	102 %	70-130
Surrogate: 13C-PFHxA	100 %	70-130
Surrogate: M3HFPO-DA	95.4 %	70-130



Sample Information

Client Sample ID: WELL 5-1 Field Blank

York Sample ID: 21L0335-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0335	UCMR 3	Drinking Water	December 7, 2021 8:00 am	12/07/2021

Sample Information

Client Sample ID: WELL 5-1

York Sample ID: 21L0335-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
21L0335	UCMR 3	Drinking Water	December 7, 2021 8:15 am	12/07/2021

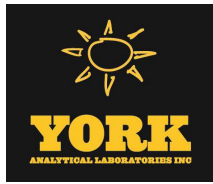
PFAS, EPA 537.1 List

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						
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications: NELAC-NY12058		12/15/2021 23:19	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications: NELAC-NY12058		12/15/2021 23:19	
375-95-1	* Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
72629-94-8	* Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
2355-31-9	* N-MeFOSAA	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
2991-50-6	* N-EtFOSAA	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
756426-58-1	* 9CL-PF3ONS	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
763051-92-9	* 11CL-PF3OUdS	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
13252-13-6	* HFPO-DA (Gen-X)	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	
919005-14-4	* ADONA	ND		0		ng/L	1.79	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 23:19	



Sample Information

Client Sample ID: WELL 5-1

York Sample ID: 21L0335-02

York Project (SDG) No.
21L0335

Client Project ID
UCMR 3

Matrix
Drinking Water

Collection Date/Time
December 7, 2021 8:15 am

Date Received
12/07/2021

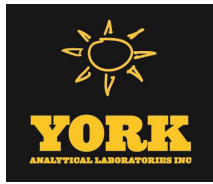
PFAS, EPA 537.1 List

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	Acceptance Range					
	Surrogate Recoveries	Result			Acceptance Range					
	<i>Surrogate: d5-N-EtFOSAA</i>	<i>117 %</i>			<i>70-130</i>					
	<i>Surrogate: 13C-PFDA</i>	<i>105 %</i>			<i>70-130</i>					
	<i>Surrogate: 13C-PFHxA</i>	<i>102 %</i>			<i>70-130</i>					
	<i>Surrogate: M3HFPO-DA</i>	<i>100 %</i>			<i>70-130</i>					



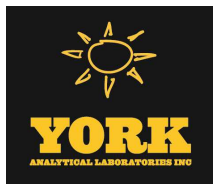
Analytical Batch Summary

Batch ID: BL12027

Preparation Method: EPA 537.1 SPE DVB

Prepared By: ER

YORK Sample ID	Client Sample ID	Preparation Date
21L0335-01	WELL 5-1 Field Blank	12/14/21
21L0335-02	WELL 5-1	12/14/21
BL12027-BLK1	Blank	12/14/21
BL12027-BS1	LCS	12/14/21
BL12027-BS2	LCS	12/14/21
BL12027-DUP1	Duplicate	12/14/21
BL12027-MS1	Matrix Spike	12/14/21



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 BL12027 - EPA 537.1 SPE DVB

Blank (BL12027-BLK1)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTriDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
9CL-PF3ONS	ND	2.00	"								
11CL-PF3OUdS	ND	2.00	"								
HFPO-DA (Gen-X)	ND	2.00	"								
ADONA	ND	2.00	"								
<i>Surrogate: d5-N-EtFOSAA</i>	<i>412</i>		<i>"</i>	<i>320</i>		<i>129</i>	<i>70-130</i>				
<i>Surrogate: 13C-PFDA</i>	<i>93.0</i>		<i>"</i>	<i>80.0</i>		<i>116</i>	<i>70-130</i>				
<i>Surrogate: 13C-PFHxA</i>	<i>85.4</i>		<i>"</i>	<i>80.0</i>		<i>107</i>	<i>70-130</i>				
<i>Surrogate: M3HFPO-DA</i>	<i>86.4</i>		<i>"</i>	<i>80.0</i>		<i>108</i>	<i>70-130</i>				

LCS (BL12027-BS1)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	59.5	2.00	ng/L	70.8		84.1	70-130				
Perfluorohexanoic acid (PFHxA)	74.1	2.00	"	80.0		92.6	70-130				
Perfluoroheptanoic acid (PFHpA)	76.3	2.00	"	80.0		95.4	70-130				
Perfluorohexanesulfonic acid (PFHxS)	68.1	2.00	"	76.0		89.5	70-130				
Perfluorooctanoic acid (PFOA)	74.1	2.00	"	80.0		92.7	70-130				
Perfluorooctanesulfonic acid (PFOS)	70.1	2.00	"	76.8		91.3	70-130				
Perfluorononanoic acid (PFNA)	74.4	2.00	"	80.0		93.0	70-130				
Perfluorodecanoic acid (PFDA)	76.4	2.00	"	80.0		95.5	70-130				
Perfluoroundecanoic acid (PFUnA)	75.6	2.00	"	80.0		94.5	70-130				
Perfluorododecanoic acid (PFDoA)	85.7	2.00	"	80.0		107	70-130				
Perfluorotridecanoic acid (PFTriDA)	88.7	2.00	"	80.0		111	70-130				
Perfluorotetradecanoic acid (PFTA)	73.9	2.00	"	80.0		92.3	70-130				
N-MeFOSAA	77.7	2.00	"	80.0		97.1	70-130				
N-EtFOSAA	78.5	2.00	"	80.0		98.2	70-130				
9CL-PF3ONS	64.9	2.00	"	74.8		86.8	60-130				
11CL-PF3OUdS	73.1	2.00	"	75.6		96.6	60-130				
HFPO-DA (Gen-X)	74.3	2.00	"	80.0		92.9	60-130				
ADONA	72.2	2.00	"	75.6		95.6	60-130				
<i>Surrogate: d5-N-EtFOSAA</i>	<i>359</i>		<i>"</i>	<i>320</i>		<i>112</i>	<i>70-130</i>				
<i>Surrogate: 13C-PFDA</i>	<i>84.6</i>		<i>"</i>	<i>80.0</i>		<i>106</i>	<i>70-130</i>				
<i>Surrogate: 13C-PFHxA</i>	<i>83.9</i>		<i>"</i>	<i>80.0</i>		<i>105</i>	<i>70-130</i>				
<i>Surrogate: M3HFPO-DA</i>	<i>83.2</i>		<i>"</i>	<i>80.0</i>		<i>104</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 BL12027 - EPA 537.1 SPE DVB

LCS (BL12027-BS2)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	27.3	2.00	ng/L	35.4		77.1	70-130				
Perfluorohexanoic acid (PFHxA)	34.1	2.00	"	40.0		85.3	70-130				
Perfluoroheptanoic acid (PFHpA)	35.2	2.00	"	40.0		87.9	70-130				
Perfluorohexanesulfonic acid (PFHxS)	32.8	2.00	"	38.0		86.2	70-130				
Perfluorooctanoic acid (PFOA)	35.0	2.00	"	40.0		87.5	70-130				
Perfluorooctanesulfonic acid (PFOS)	32.8	2.00	"	38.4		85.5	70-130				
Perfluorononanoic acid (PFNA)	35.7	2.00	"	40.0		89.2	70-130				
Perfluorodecanoic acid (PFDA)	35.9	2.00	"	40.0		89.7	70-130				
Perfluoroundecanoic acid (PFUnA)	33.4	2.00	"	40.0		83.5	70-130				
Perfluorododecanoic acid (PFDoA)	37.2	2.00	"	40.0		93.1	70-130				
Perfluorotridecanoic acid (PFTriDA)	41.7	2.00	"	40.0		104	70-130				
Perfluorotetradecanoic acid (PFTA)	34.0	2.00	"	40.0		85.0	70-130				
N-MeFOSAA	38.1	2.00	"	40.0		95.3	70-130				
N-EtFOSAA	38.2	2.00	"	40.0		95.5	70-130				
9CL-PF3ONS	31.1	2.00	"	37.4		83.1	60-130				
11CL-PF3OUdS	32.3	2.00	"	37.8		85.4	60-130				
HFPO-DA (Gen-X)	34.1	2.00	"	40.0		85.4	60-130				
ADONA	33.1	2.00	"	37.8		87.6	60-130				
Surrogate: d5-N-EtFOSAA	393		"	320		123	70-130				
Surrogate: 13C-PFDA	88.7		"	80.0		111	70-130				
Surrogate: 13C-PFHxA	84.8		"	80.0		106	70-130				
Surrogate: M3HFPO-DA	86.6		"	80.0		108	70-130				

Duplicate (BL12027-DUP1)

*Source sample: 21L0272-02 (Duplicate)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	ND	1.67	ng/L		ND						25
Perfluorohexanoic acid (PFHxA)	ND	1.67	"		ND						25
Perfluoroheptanoic acid (PFHpA)	ND	1.67	"		ND						25
Perfluorohexanesulfonic acid (PFHxS)	ND	1.67	"		ND						25
Perfluorooctanoic acid (PFOA)	ND	1.67	"		ND						25
Perfluorooctanesulfonic acid (PFOS)	ND	1.67	"		ND						25
Perfluorononanoic acid (PFNA)	ND	1.67	"		ND						25
Perfluorodecanoic acid (PFDA)	ND	1.67	"		ND						25
Perfluoroundecanoic acid (PFUnA)	ND	1.67	"		ND						25
Perfluorododecanoic acid (PFDoA)	ND	1.67	"		ND						25
Perfluorotridecanoic acid (PFTriDA)	ND	1.67	"		ND						25
Perfluorotetradecanoic acid (PFTA)	ND	1.67	"		ND						25
N-MeFOSAA	ND	1.67	"		ND						25
N-EtFOSAA	ND	1.67	"		ND						25
9CL-PF3ONS	ND	1.67	"		ND						25
11CL-PF3OUdS	ND	1.67	"		ND						25
HFPO-DA (Gen-X)	ND	1.67	"		ND						25
ADONA	ND	1.67	"		ND						25
Surrogate: d5-N-EtFOSAA	301		"	267		113	70-130				
Surrogate: 13C-PFDA	72.1		"	66.7		108	70-130				
Surrogate: 13C-PFHxA	69.3		"	66.7		104	70-130				
Surrogate: M3HFPO-DA	66.0		"	66.7		99.1	70-130				



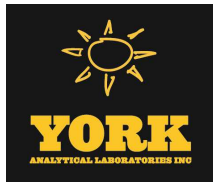
PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL12027 - EPA 537.1 SPE DVB

Matrix Spike (BL12027-MS1)	*Source sample: 21L0267-01 (Matrix Spike)						Prepared: 12/14/2021 Analyzed: 12/15/2021	
Perfluorobutanesulfonic acid (PFBS)	42.0	1.56	ng/L	55.3	ND	75.9	70-130	
Perfluorohexanoic acid (PFHxA)	55.0	1.56	"	62.5	ND	88.0	70-130	
Perfluoroheptanoic acid (PFHpA)	59.5	1.56	"	62.5	ND	95.3	70-130	
Perfluorohexanesulfonic acid (PFHxS)	53.2	1.56	"	59.4	ND	89.7	70-130	
Perfluorooctanoic acid (PFOA)	59.2	1.56	"	62.5	ND	94.7	70-130	
Perfluorooctanesulfonic acid (PFOS)	55.6	1.56	"	60.0	ND	92.7	70-130	
Perfluorononanoic acid (PFNA)	58.2	1.56	"	62.5	ND	93.1	70-130	
Perfluorodecanoic acid (PFDA)	61.8	1.56	"	62.5	ND	98.8	70-130	
Perfluoroundecanoic acid (PFUnA)	58.0	1.56	"	62.5	ND	92.9	70-130	
Perfluorododecanoic acid (PFDoA)	55.8	1.56	"	62.5	ND	89.4	70-130	
Perfluorotridecanoic acid (PFTriDA)	50.5	1.56	"	62.5	ND	80.8	70-130	
Perfluorotetradecanoic acid (PFTA)	54.6	1.56	"	62.5	ND	87.3	70-130	
N-MeFOSAA	60.9	1.56	"	62.5	ND	97.4	70-130	
N-EtFOSAA	54.7	1.56	"	62.5	ND	87.5	70-130	
9CL-PF3ONS	52.7	1.56	"	58.4	ND	90.2	70-130	
11CL-PF3OUdS	52.9	1.56	"	59.1	ND	89.5	70-130	
HFPO-DA (Gen-X)	54.1	1.56	"	62.5	ND	86.5	70-130	
ADONA	55.7	1.56	"	59.1	ND	94.2	50-130	
Surrogate: d5-N-EtFOSAA	265		"	250		106	70-130	
Surrogate: 13C-PFDA	68.4		"	62.5		109	70-130	
Surrogate: 13C-PFHxA	64.0		"	62.5		102	70-130	
Surrogate: M3HFPO-DA	62.8		"	62.5		100	70-130	



Sample and Data Qualifiers Relating to This Work Order

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.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Region 1

SUNY @ Stony Brook, 50 Circle Road, Stony Brook, NY 11790
 P:(631) 444-0405 | F:(631) 444-0424 | Email: R1dow@dec.ny.gov
 www.dec.ny.gov

Instructions to add more columns for additional wells:

Right click on heading letter H and click insert.

Right click on cell G32, press copy.

Right click on cell G33, press paste special - formula (Fx).

Repeat steps above to create as many additional columns as needed.

Reporting Period:	Dec-21
Utility Name:	Hampton Bays Water District
Address:	B Ponquogue Ave./ P.O. Box 1013 Hampton Bays NY 119
Report Prepared By:	Keith Tuthill Jr
Phone Number:	(631) 728-0179
Email Address:	ktuthilljr@southamptontownny.gov

PUMPAGE DATA

DEC Well Number:	S-15687	S-24848	S-31636	S-51970	S-74071	S-58350	S-58351	S-58352	S-108065	S-108066	S-127163	
WSA or WWA #:	W-3187	W-4664	W-5328	W-6236	W-7042	WSA-6639	WSA-6639	WSA-6639	WSA-8768	WSA-8768	WSA-10980	
District Well ID:	1-1	1-2	1-3	2-1	2-2	3-1	3-2	3-3	4-1	4-2	5-1	
Authorized Capacity:	500	500	750	500	750	500	500	500	1000	1000	1000	Monthly
Actual Capacity:	350	500	750	500	750	500	500	500	1000	1000	800	Totals
January	0	0	0	6789	3558	782	0	0	0	0	37317	48446
February	0	0	0	8976	3236	0	0	1579	0	0	31885	45676
March	0	0	0	1491	22238	10818	0	13445	0	0	0	47992
April	0	0	0	13493	12846	19551	91	11532	0	0	0	57513
May	3437	1911	10007	22906	17227	17511	4315	11427	2811	0	41578	133130
June	9588	4971	12060	21780	21398	5986	6120	12710	39637	0	43362	177612
July	2326	941	16223	20297	28388	15372	7323	14750	22836	11352	45437	185245
August	3398	2913	11030	12967	25778	13883	5234	9126	38718	16809	45080	184936
September	12280	5197	4287	0	27890	12186	4504	7292	24044	15702	42590	155972
October	17712	2396	9252	10093	21428	5689	1316	3914	9936	16019	44495	142250
November	3140	80	2821	5098	14658	0	0	0	0	0	41822	67619
December	0	0	0	5867	5265	0	0	0	6016	0	31802	48950
Total	51881	18409	65680	129757	203910	101778	28903	85775	143998	59882	405368	
NOTE: Pumpage entered in thousands of gallons					Sum of Monthly Total							1295341
					Sum of Each Well Total							1295341

3548.879452