

Lauridsen, Keld B - DNR

From: Savale, Michael <Michael.Savale@tetrattech.com>
Sent: Monday, June 14, 2021 9:00 AM
To: Lauridsen, Keld B - DNR
Cc: Christopher, Michael L; Hassett, Mike; Kaminski, Roger F; Council, Greg
Subject: Site Investigation Sample Results Notification - Ashview Terrace Apartments, BRRTS #: 02-05-564043
Attachments: 20210614_Ashview Terrace Apartments PFAS Summary Letter_BRRTS # 02-05-564043.pdf

Mr. Lauridsen,

Please find the attached summary letter which includes PFAS analytical results from samples collected at the Ashview Terrace Apartments, BRRTS #: 02-05-564043, and the written notification that was submitted to the property owner. These results will also be uploaded to the BRRTS site.

Please feel free to contact me if you have any questions regarding this submittal.

Thank you,
Mike Savale

Mike Savale | Senior Project Geologist
Mobile (810) 923-8076 | Fax (734) 213-5008 | michael.savale@tetrattech.com

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Georgia-Pacific

June 14, 2021

Submitted via Email

Mr. Keld Lauridsen
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727

**RE: Georgia-Pacific LLC (GP) - Submission of Analytical Results
Ashview Terrace Apartments, BRRTS #: 02-05-564043**

Dear Mr. Lauridsen:

Georgia-Pacific LLC (GP) recently conducted groundwater and soil sampling as part of the PFAS investigation at the Ashview Terrace Apartments (BRRTS #: 02-05-564043). Tetra Tech. was consulted to complete the investigation in accordance with the Site investigation Work Plan submitted on November 17, 2020. Please see the attached laboratory analytical data from this sampling effort at the Ashview Terrace Apartments and the written notification submitted to the property owner.

On May 3-6, 2021, three groundwater monitoring wells were installed at the Ashview Terrace Apartments. During the installation of the southeastern monitoring well, a grey, clay-like, soil was intermittently observed from 2.5 to 4 feet below the ground surface. Past site investigations indicate the presence of paper residual in this area. A sample of the soil was collected for PFAS analysis. On May 5-6, 2021, groundwater samples from three groundwater monitoring wells were collected. The soil and groundwater samples were submitted to Vista Analytical Laboratory and analyzed for the 33 PFAS on the Wisconsin DNR PFAS List 1.1.21 found in the Wisconsin DNR PFAS Updates, March 1, 2021, via a modified EPA Method 537 using isotope dilution. Analytical results from these samples were received on May 28, 2021.

PFAS was detected in all samples collected. In the soil sample (sample ID: SB-21-02-210504), only PFOS was detected at 1.69 nanograms per gram (ng/g), below the Non-Industrial Not-to Exceed Residual Contaminant Level of 1,260 ng/g. In groundwater, sample MW-21-03-210505, PFOA, PFOS, and PFOSA were detected with a combined total of 30.22 nanograms per liter (ng/L), above the Wisconsin DHS recommended combined enforcement standard of 20 ng/L for these compounds. In the remaining two groundwater samples analyzed (sample IDs: MW-21-01-210506 and MW-21-02-210506), PFAS concentration were below the Wisconsin DHS recommended enforcement standards.

GP will provide a Site Investigation Summary Report that will include a detailed summary of the Ashview Terrace PFAS investigation. The report will also include any next steps, if necessary, to supplement this investigation.

If you have any questions or concerns about the Soil and groundwater results disclosed herein, please do not hesitate to contact me via email at michael.christopher@gapac.com or by phone at 281-947-0083.

Sincerely,

Michael Christopher

Michael Christopher

cc: Michael Hassett – GP
Roger Kaminski – GP
Greg Council – Tetra Tech
Michael Savale – Tetra Tech

Georgia-Pacific LLC (GP) - Submission of Analytical Results
Ashview Terrace Apartments, BRRTS #: 02-05-564043

Attachment 1
Vista Analytical Laboratory

May 28, 2021

Vista Work Order No. 2105075

Mr. Michael Savale
Tetra Tech
710 Avis Drive, Suite 100
Ann Arbor, MI 48108

Dear Mr. Savale,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on May 07, 2021 under your Project Name 'Ashview Terrace Apt. PFAS'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

for

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2105075

Case Narrative

Sample Condition on Receipt:

Three aqueous samples and one soil sample were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution Method (Aqueous)

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

PFAS Isotope Dilution Method (Soil)

The soil sample was extracted and analyzed for a selected list of PFAS using Vista's Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The sample was extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the

preparation batch. No analytes were detected in the Method Blank above the Reporting Limit (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2105075-01	MW-21-01-210506	06-May-21 09:00	07-May-21 09:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2105075-02	MW-21-02-210506	06-May-21 10:00	07-May-21 09:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2105075-03	MW-21-03-210505	05-May-21 17:25	07-May-21 09:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2105075-04	SB-21-02-210504	04-May-21 11:00	07-May-21 09:33	HDPE Jar, 6 oz

ANALYTICAL RESULTS

Sample ID: Method Blank					PFAS Isotope Dilution Method					
Client Data				Laboratory Data						
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B1E0111-BLK1	Column:	BEH C18			
Project:	Ashview Terrace Apt. PFAS									
Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.715	0.715	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFPeA	2706-90-3	<0.980	0.980	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFBS	375-73-5	<0.770	0.770	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
4:2 FTS	757124-72-4	<1.08	1.08	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHxA	307-24-4	<1.13	1.13	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFPeS	2706-91-4	<0.905	0.905	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
HFPO-DA	13252-13-6	<0.620	0.620	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHpA	375-85-9	<0.885	0.885	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
ADONA	919005-14-4	<0.850	0.850	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHxS	355-46-4	<1.08	1.08	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
6:2 FTS	27619-97-2	<0.965	0.965	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFOA	335-67-1	<1.09	1.09	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHpS	375-92-8	<2.47	2.47	2.50		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFNA	375-95-1	<0.565	0.565	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFOSA	754-91-6	<1.35	1.35	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFOS	1763-23-1	<1.07	1.07	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
9Cl-PF3ONS	756426-58-1	<0.830	0.830	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDA	335-76-2	<0.900	0.900	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
8:2 FTS	39108-34-4	<2.24	2.24	2.25		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFNS	68259-12-1	<1.41	1.41	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
MeFOSAA	2355-31-9	<0.945	0.945	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
EtFOSAA	2991-50-6	<2.54	2.54	2.63		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFUnA	2058-94-8	<1.35	1.35	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDS	335-77-3	<2.71	2.71	2.75		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
11Cl-PF3OUdS	763051-92-9	<0.427	0.427	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDoA	307-55-1	<0.785	0.785	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
MeFOSA	31506-32-8	<6.85	6.85	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFTTrDA	72629-94-8	<1.11	1.11	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDoS	79780-39-5	<1.59	1.59	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFTeDA	376-06-7	<0.815	0.815	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
EtFOSA	4151-50-2	<7.30	7.30	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
MeFOSE	24448-09-7	<8.00	8.00	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
EtFOSE	1691-99-2	<5.55	5.55	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C3-PFBA	IS	138	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1	
13C3-PFPeA	IS	87.9	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1	
13C3-PFBS	IS	86.2	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1	
13C3-HFPO-DA	IS	81.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1	

Sample ID: Method Blank **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B1E0111-BLK1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	88.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFHxA	IS	87.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C4-PFHpA	IS	91.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C3-PFHxS	IS	91.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-6:2 FTS	IS	96.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C5-PFNA	IS	89.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C8-PFOA	IS	55.2	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFOA	IS	92.6	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C8-PFOS	IS	92.2	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFDA	IS	93.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-8:2 FTS	IS	87.6	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d3-MeFOSAA	IS	80.9	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFUnA	IS	89.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d5-EtFOSAA	IS	82.6	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFDoA	IS	82.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d3-MeFOSA	IS	28.1	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFTeDA	IS	72.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d5-EtFOSA	IS	27.2	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d7-MeFOSE	IS	48.3	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d9-EtFOSE	IS	48.3	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data							
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B1E0111-BS1	Column:	BEH C18				
Project:	Ashview Terrace Apt. PFAS											

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	8.48	8.00	106	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFPeA	2706-90-3	8.23	8.00	103	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFBS	375-73-5	9.15	8.00	114	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
4:2 FTS	757124-72-4	7.89	8.00	98.6	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHxA	307-24-4	8.56	8.00	107	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFPeS	2706-91-4	9.40	8.00	118	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
HFPO-DA	13252-13-6	8.69	8.00	109	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHpA	375-85-9	7.65	8.00	95.6	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
ADONA	919005-14-4	8.10	8.00	101	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHxS	355-46-4	8.03	8.00	100	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
6:2 FTS	27619-97-2	8.11	8.00	101	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFOA	335-67-1	8.41	8.00	105	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHpS	375-92-8	7.52	8.00	94.0	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFNA	375-95-1	8.31	8.00	104	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFOSA	754-91-6	6.80	8.00	85.0	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFOS	1763-23-1	9.06	8.00	113	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
9Cl-PF3ONS	756426-58-1	8.36	8.00	105	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDA	335-76-2	7.67	8.00	95.8	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
8:2 FTS	39108-34-4	9.67	8.00	121	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFNS	68259-12-1	8.24	8.00	103	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
MeFOSAA	2355-31-9	7.64	8.00	95.5	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
EtFOSAA	2991-50-6	7.94	8.00	99.2	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFUnA	2058-94-8	8.90	8.00	111	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDS	335-77-3	7.16	8.00	89.5	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
11Cl-PF3OUdS	763051-92-9	8.88	8.00	111	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDoA	307-55-1	7.63	8.00	95.4	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
MeFOSA	31506-32-8	7.57	8.00	94.6	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFTTrDA	72629-94-8	7.28	8.00	91.0	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDoS	79780-39-5	7.42	8.08	91.9	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFTeDA	376-06-7	8.19	8.00	102	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
EtFOSA	4151-50-2	7.95	8.00	99.4	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
MeFOSE	24448-09-7	7.54	8.00	94.2	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
EtFOSE	1691-99-2	7.53	8.00	94.2	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
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Sample ID: OPR

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B1E0111-BS1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	131	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-PFPeA	IS	85.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-PFBS	IS	80.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-HFPO-DA	IS	79.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-4:2 FTS	IS	85.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFHxA	IS	86.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C4-PFHpA	IS	90.8	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-PFHxS	IS	97.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-6:2 FTS	IS	87.2	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C5-PFNA	IS	82.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C8-PFOA	IS	59.0	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFOA	IS	87.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C8-PFOS	IS	90.9	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFDA	IS	94.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-8:2 FTS	IS	81.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d3-MeFOSAA	IS	82.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFUnA	IS	84.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d5-EtFOSAA	IS	81.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFDoA	IS	85.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d3-MeFOSA	IS	34.8	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFTeDA	IS	75.3	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d5-EtFOSA	IS	33.8	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d7-MeFOSE	IS	50.2	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d9-EtFOSE	IS	51.8	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1

Sample ID: MW-21-01-210506
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-01	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 09:00	Date Received:	07-May-21 09:33		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	18.8	0.731	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFPeA	2706-90-3	25.2	1.00	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFBS	375-73-5	169	0.787	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
4:2 FTS	757124-72-4	<1.10	1.10	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHxA	307-24-4	15.7	1.15	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFPeS	2706-91-4	<0.925	0.925	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
HFPO-DA	13252-13-6	<0.634	0.634	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHpA	375-85-9	8.43	0.905	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
ADONA	919005-14-4	<0.869	0.869	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHxS	355-46-4	1.44	1.10	2.04	J, Q	B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
6:2 FTS	27619-97-2	1.81	0.986	2.04	J	B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFOA	335-67-1	12.1	1.11	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHpS	375-92-8	<2.52	2.52	2.56		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFNA	375-95-1	<0.577	0.577	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFOSA	754-91-6	3.91	1.38	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFOS	1763-23-1	1.39	1.09	2.04	J, Q	B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
9Cl-PF3ONS	756426-58-1	<0.848	0.848	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDA	335-76-2	<0.920	0.920	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
8:2 FTS	39108-34-4	<2.29	2.29	2.30		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFNS	68259-12-1	<1.44	1.44	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
MeFOSAA	2355-31-9	<0.966	0.966	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
EtFOSAA	2991-50-6	<2.59	2.59	2.68		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFUnA	2058-94-8	<1.37	1.37	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDS	335-77-3	<2.76	2.76	2.81		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
11Cl-PF3OUdS	763051-92-9	<0.436	0.436	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDoA	307-55-1	<0.802	0.802	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
MeFOSA	31506-32-8	<7.00	7.00	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFTTrDA	72629-94-8	<1.13	1.13	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDoS	79780-39-5	<1.63	1.63	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFTeDA	376-06-7	<0.833	0.833	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
EtFOSA	4151-50-2	<7.46	7.46	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
MeFOSE	24448-09-7	<8.18	8.18	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
EtFOSE	1691-99-2	<5.67	5.67	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	124	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C3-PFPeA	IS	87.4	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C3-PFBS	IS	84.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1

Sample ID: MW-21-01-210506

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-01	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 09:00	Date Received:	07-May-21 09:33		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	82.9	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-4:2 FTS	IS	92.3	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFHxA	IS	85.6	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C4-PFHpA	IS	90.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C3-PFHxS	IS	87.8	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-6:2 FTS	IS	87.6	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C5-PFNA	IS	87.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C8-PFOA	IS	64.4	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFOA	IS	87.6	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C8-PFOS	IS	85.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFDA	IS	87.9	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-8:2 FTS	IS	83.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d3-MeFOSAA	IS	77.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFUnA	IS	82.2	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d5-EtFOSAA	IS	79.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFDoA	IS	82.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d3-MeFOSA	IS	40.8	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFTeDA	IS	76.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d5-EtFOSA	IS	42.1	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d7-MeFOSE	IS	59.0	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d9-EtFOSE	IS	60.0	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-02-210506
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-02	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 10:00	Date Received:	07-May-21 09:33		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	3.69	0.754	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFPeA	2706-90-3	2.92	1.03	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFBS	375-73-5	3.64	0.812	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
4:2 FTS	757124-72-4	<1.14	1.14	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHxA	307-24-4	1.89	1.19	2.11	J	B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFPeS	2706-91-4	<0.954	0.954	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
HFPO-DA	13252-13-6	<0.654	0.654	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHpA	375-85-9	1.20	0.933	2.11	J	B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
ADONA	919005-14-4	<0.896	0.896	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHxS	355-46-4	<1.13	1.13	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
6:2 FTS	27619-97-2	<1.02	1.02	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFOA	335-67-1	<1.15	1.15	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHpS	375-92-8	<2.60	2.60	2.64		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFNA	375-95-1	<0.596	0.596	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFOSA	754-91-6	2.22	1.42	2.11	Q	B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFOS	1763-23-1	<1.12	1.12	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
9Cl-PF3ONS	756426-58-1	<0.875	0.875	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDA	335-76-2	<0.949	0.949	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
8:2 FTS	39108-34-4	<2.36	2.36	2.37		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFNS	68259-12-1	<1.49	1.49	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
MeFOSAA	2355-31-9	<0.996	0.996	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
EtFOSAA	2991-50-6	<2.67	2.67	2.77		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFUnA	2058-94-8	<1.42	1.42	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDS	335-77-3	<2.85	2.85	2.90		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
11Cl-PF3OUdS	763051-92-9	<0.450	0.450	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDoA	307-55-1	<0.828	0.828	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
MeFOSA	31506-32-8	<7.22	7.22	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFTTrDA	72629-94-8	<1.17	1.17	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDoS	79780-39-5	<1.68	1.68	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFTeDA	376-06-7	<0.859	0.859	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
EtFOSA	4151-50-2	<7.70	7.70	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
MeFOSE	24448-09-7	<8.44	8.44	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
EtFOSE	1691-99-2	<5.85	5.85	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	148	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C3-PFPeA	IS	92.9	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C3-PFBS	IS	85.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1

Sample ID: MW-21-02-210506 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-02	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 10:00	Date Received:	07-May-21 09:33		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	110	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-4:2 FTS	IS	92.3	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFHxA	IS	94.3	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C4-PFHpA	IS	101	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C3-PFHxS	IS	104	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-6:2 FTS	IS	92.1	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C5-PFNA	IS	90.0	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C8-PFOA	IS	74.2	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFOA	IS	94.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C8-PFOS	IS	90.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFDA	IS	90.2	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-8:2 FTS	IS	85.0	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d3-MeFOSAA	IS	84.8	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFUnA	IS	88.6	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d5-EtFOSAA	IS	87.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFDoA	IS	88.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d3-MeFOSA	IS	52.5	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFTeDA	IS	76.8	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d5-EtFOSA	IS	52.9	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d7-MeFOSE	IS	60.1	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d9-EtFOSE	IS	61.4	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-03-210505

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-03	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	05-May-21 17:25	Date Received:	07-May-21 09:33		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.2	0.778	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFPeA	2706-90-3	5.48	1.07	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFBS	375-73-5	122	0.838	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
4:2 FTS	757124-72-4	<1.17	1.17	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHxA	307-24-4	3.97	1.23	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFPeS	2706-91-4	<0.984	0.984	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
HFPO-DA	13252-13-6	<0.674	0.674	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHpA	375-85-9	3.37	0.963	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
ADONA	919005-14-4	<0.925	0.925	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHxS	355-46-4	<1.17	1.17	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
6:2 FTS	27619-97-2	5.63	1.05	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFOA	335-67-1	23.4	1.19	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHpS	375-92-8	<2.69	2.69	2.72		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFNA	375-95-1	0.687	0.615	2.18	J	B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFOSA	754-91-6	3.70	1.47	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFOS	1763-23-1	3.12	1.16	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
9Cl-PF3ONS	756426-58-1	<0.903	0.903	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDA	335-76-2	<0.979	0.979	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
8:2 FTS	39108-34-4	<2.44	2.44	2.45		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFNS	68259-12-1	<1.53	1.53	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
MeFOSAA	2355-31-9	<1.03	1.03	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
EtFOSAA	2991-50-6	<2.76	2.76	2.86		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFUnA	2058-94-8	<1.46	1.46	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDS	335-77-3	<2.94	2.94	2.99		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
11Cl-PF3OUdS	763051-92-9	<0.464	0.464	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDoA	307-55-1	<0.854	0.854	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
MeFOSA	31506-32-8	<7.45	7.45	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFTTrDA	72629-94-8	<1.20	1.20	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDoS	79780-39-5	<1.73	1.73	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFTeDA	376-06-7	<0.886	0.886	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
EtFOSA	4151-50-2	<7.94	7.94	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
MeFOSE	24448-09-7	<8.70	8.70	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
EtFOSE	1691-99-2	<6.04	6.04	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	147	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C3-PFPeA	IS	92.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C3-PFBS	IS	85.6	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1

Sample ID: MW-21-03-210505

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-03	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	05-May-21 17:25	Date Received:	07-May-21 09:33		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	79.8	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-4:2 FTS	IS	86.7	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFHxA	IS	90.7	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C4-PFHpA	IS	95.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C3-PFHxS	IS	100	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-6:2 FTS	IS	95.9	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C5-PFNA	IS	85.7	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C8-PFOA	IS	68.7	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFOA	IS	92.2	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C8-PFOS	IS	93.8	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFDA	IS	96.1	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-8:2 FTS	IS	79.9	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d3-MeFOSAA	IS	87.4	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFUnA	IS	89.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d5-EtFOSAA	IS	90.1	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFDoA	IS	92.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d3-MeFOSA	IS	50.5	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFTeDA	IS	79.4	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d5-EtFOSA	IS	52.0	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d7-MeFOSE	IS	61.1	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d9-EtFOSE	IS	62.9	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Method Blank
PFAS Isotope Dilution Method

Client Data				Laboratory Data						
Name:	Tetra Tech	Matrix:	Solid	Lab Sample:	B1E0129-BLK1	Column:	BEH C18			
Project:	Ashview Terrace Apt. PFAS									

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.266	0.266	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFPeA	2706-90-3	<0.252	0.252	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFBS	375-73-5	<0.438	0.438	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
4:2 FTS	757124-72-4	<0.416	0.416	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHxA	307-24-4	<0.638	0.638	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFPeS	2706-91-4	<0.324	0.324	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
HFPO-DA	13252-13-6	<0.548	0.548	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHpA	375-85-9	<0.332	0.332	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
ADONA	919005-14-4	<0.350	0.350	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHxS	355-46-4	<0.408	0.408	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
6:2 FTS	27619-97-2	<0.648	0.648	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFOA	335-67-1	<0.288	0.288	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHpS	375-92-8	<0.630	0.630	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFNA	375-95-1	<0.376	0.376	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFOSA	754-91-6	<0.452	0.452	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFOS	1763-23-1	<0.764	0.764	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
9Cl-PF3ONS	756426-58-1	<0.714	0.714	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDA	335-76-2	<0.652	0.652	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
8:2 FTS	39108-34-4	<0.538	0.538	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFNS	68259-12-1	<0.622	0.622	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
MeFOSAA	2355-31-9	<0.384	0.384	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
EtFOSAA	2991-50-6	<0.704	0.704	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFUnA	2058-94-8	<0.312	0.312	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDS	335-77-3	<0.752	0.752	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
11Cl-PF3OUdS	763051-92-9	<1.13	1.13	1.50		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDoA	307-55-1	<0.408	0.408	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
MeFOSA	31506-32-8	<3.16	3.16	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFTTrDA	72629-94-8	<0.618	0.618	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDoS	79780-39-5	<1.01	1.01	1.50		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFTtDA	376-06-7	<0.608	0.608	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
EtFOSA	4151-50-2	<5.00	5.00	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
MeFOSE	24448-09-7	<3.08	3.08	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
EtFOSE	1691-99-2	<3.52	3.52	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	132	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-PFPeA	IS	82.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-PFBS	IS	87.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-HFPO-DA	IS	80.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1

Sample ID: Method Blank **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Solid	Lab Sample:	B1E0129-BLK1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	85.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFHxA	IS	85.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C4-PFHpA	IS	90.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-PFHxS	IS	90.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-6:2 FTS	IS	79.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C5-PFNA	IS	81.0	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C8-PFOA	IS	47.0	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFOA	IS	89.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C8-PFOS	IS	90.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFDA	IS	70.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-8:2 FTS	IS	81.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d3-MeFOSAA	IS	58.7	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFUnA	IS	58.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d5-EtFOSAA	IS	62.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFDoA	IS	61.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d3-MeFOSA	IS	18.0	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFTeDA	IS	66.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d5-EtFOSA	IS	18.1	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d7-MeFOSE	IS	34.4	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d9-EtFOSE	IS	37.4	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data							
Name:	Tetra Tech	Matrix:	Solid		Lab Sample:	B1E0129-BS1	Column:	BEH C18				
Project:	Ashview Terrace Apt. PFAS											

Analyte	CAS Number	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	1.82	2.00	91.1	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFPeA	2706-90-3	1.95	2.00	97.7	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFBS	375-73-5	2.15	2.00	108	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
4:2 FTS	757124-72-4	2.27	2.00	113	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHxA	307-24-4	1.92	2.00	96.2	50 - 150	Q	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFPeS	2706-91-4	1.78	2.00	89.2	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
HFPO-DA	13252-13-6	2.03	2.00	102	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHpA	375-85-9	2.05	2.00	102	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
ADONA	919005-14-4	2.14	2.00	107	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHxS	355-46-4	1.75	2.00	87.3	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
6:2 FTS	27619-97-2	1.90	2.00	95.0	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFOA	335-67-1	2.02	2.00	101	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHpS	375-92-8	1.74	2.00	86.9	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFNA	375-95-1	1.97	2.00	98.5	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFOSA	754-91-6	2.16	2.00	108	50 - 150	Q	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFOS	1763-23-1	2.20	2.00	110	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
9Cl-PF3ONS	756426-58-1	1.86	2.00	92.8	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDA	335-76-2	2.08	2.00	104	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
8:2 FTS	39108-34-4	2.23	2.00	112	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFNS	68259-12-1	1.63	2.00	81.4	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
MeFOSAA	2355-31-9	1.66	2.00	83.2	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
EtFOSAA	2991-50-6	2.00	2.00	100	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFUnA	2058-94-8	2.17	2.00	109	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDS	335-77-3	1.64	2.00	81.9	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
11Cl-PF3OUdS	763051-92-9	2.37	2.00	119	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDoA	307-55-1	1.99	2.00	99.7	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
MeFOSA	31506-32-8	1.70	2.00	85.1	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFTTrDA	72629-94-8	1.83	2.00	91.6	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDoS	79780-39-5	2.15	2.02	107	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFTeDA	376-06-7	1.95	2.00	97.6	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
EtFOSA	4151-50-2	1.86	2.00	92.8	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
MeFOSE	24448-09-7	1.67	2.00	83.3	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
EtFOSE	1691-99-2	2.07	2.00	104	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
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Sample ID: OPR

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Solid	Lab Sample:	B1E0129-BS1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	127	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-PFPeA	IS	82.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-PFBS	IS	96.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-HFPO-DA	IS	75.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-4:2 FTS	IS	91.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFHxA	IS	84.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C4-PFHpA	IS	83.0	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-PFHxS	IS	97.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-6:2 FTS	IS	94.0	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C5-PFNA	IS	79.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C8-PFOA	IS	44.0	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFOA	IS	86.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C8-PFOS	IS	94.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFDA	IS	76.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-8:2 FTS	IS	76.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d3-MeFOSAA	IS	65.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFUnA	IS	65.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d5-EtFOSAA	IS	64.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFDoA	IS	68.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d3-MeFOSA	IS	17.6	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFTeDA	IS	72.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d5-EtFOSA	IS	15.5	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d7-MeFOSE	IS	33.3	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d9-EtFOSE	IS	34.6	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1

Sample ID: SB-21-02-210504
PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Soil	Lab Sample:	2105075-04	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	04-May-21 11:00	Date Received:	07-May-21 09:33		
				% Solids:	81.0		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.261	0.261	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFPeA	2706-90-3	<0.247	0.247	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFBS	375-73-5	<0.429	0.429	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
4:2 FTS	757124-72-4	<0.408	0.408	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHxA	307-24-4	<0.625	0.625	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFPeS	2706-91-4	<0.318	0.318	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
HFPO-DA	13252-13-6	<0.537	0.537	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHpA	375-85-9	<0.325	0.325	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
ADONA	919005-14-4	<0.343	0.343	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHxS	355-46-4	<0.400	0.400	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
6:2 FTS	27619-97-2	<0.635	0.635	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFOA	335-67-1	<0.282	0.282	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHpS	375-92-8	<0.618	0.618	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFNA	375-95-1	<0.369	0.369	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFOSA	754-91-6	<0.443	0.443	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFOS	1763-23-1	1.69	0.749	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
9Cl-PF3ONS	756426-58-1	<0.700	0.700	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDA	335-76-2	<0.639	0.639	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
8:2 FTS	39108-34-4	<0.527	0.527	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFNS	68259-12-1	<0.610	0.610	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
MeFOSAA	2355-31-9	<0.376	0.376	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
EtFOSAA	2991-50-6	<0.690	0.690	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFUnA	2058-94-8	<0.306	0.306	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDS	335-77-3	<0.737	0.737	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
11Cl-PF3OUdS	763051-92-9	<1.11	1.11	1.47		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDoA	307-55-1	<0.400	0.400	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
MeFOSA	31506-32-8	<3.10	3.10	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFTTrDA	72629-94-8	<0.606	0.606	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDoS	79780-39-5	<0.988	0.988	1.47		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFTeDA	376-06-7	<0.596	0.596	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
EtFOSA	4151-50-2	<4.90	4.90	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
MeFOSE	24448-09-7	<3.02	3.02	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
EtFOSE	1691-99-2	<3.45	3.45	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	145	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C3-PFPeA	IS	89.3	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C3-PFBS	IS	96.7	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1

Sample ID: SB-21-02-210504 **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Soil	Lab Sample:	2105075-04	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	04-May-21 11:00	Date Received:	07-May-21 09:33		
				% Solids:	81.0		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	76.9	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-4:2 FTS	IS	102	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFHxA	IS	85.5	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C4-PFHpA	IS	88.6	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C3-PFHxS	IS	97.4	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-6:2 FTS	IS	103	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C5-PFNA	IS	83.9	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C8-PFOA	IS	58.4	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFOA	IS	89.5	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C8-PFOS	IS	90.6	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFDA	IS	83.7	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-8:2 FTS	IS	110	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d3-MeFOSAA	IS	74.5	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFUnA	IS	73.7	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d5-EtFOSAA	IS	77.0	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFDoA	IS	74.8	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d3-MeFOSA	IS	34.1	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFTeDA	IS	54.2	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d5-EtFOSA	IS	34.6	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d7-MeFOSE	IS	54.9	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d9-EtFOSE	IS	54.5	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 2105075 Temp: 13 °C
 Storage ID: R-13, WR-2 Storage Secured: Yes No

Project ID: Ashview Terrace Apt. PFA's

PO#: 117-4124161

Sampler: Andree Gordon
(name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

Andree Gordon 5-6-21 1200 FedEx 5-6-21 1200
 Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

Fedex 05/07/21 0933 Justin Briseno 05/07/21 0933
 Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 * Fax (916) 673-0106
 ATTN: Sample Custodian

Method of Shipment: FedEx
 Tracking No.: _____

Add Analysis(es) Requested

Container(s)

PFAS by Isotope Dilution
 EPA Method 537 (DW only)
 OTHER: Please attach analytical methods list
PFAS list
PFAS list
PFAS list
PFAS list

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFOA/PFO5	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	Comments
MW-21-01-210506	5-6-21	0900		2	P	AQ				X	
MW-21-02-210506	5-6-21	1000		2	P	AQ				X	
MW-21-03-210505	5-5-21	1725		2	P	AQ				X	
SB-21-02-210504	5-4-21	1100		1	PJ	SO				X	

Special Instructions/Comment
Level IV Data Package

SEND DOCUMENTATION AND RESULTS TO:

Name: Mike Savate
 Company: Tetra Tech
 Address: 710 Aris Dr Suite 100
 City: San Arbar State: ME Zip: 49109
 Phone: 810-923-9076
 Email: michael.savate@tetra.tech.com

Container Types: P = HDPE, PJ = HDPE Jar
 PY = Polypropylene, O= Other _____

Bottle Preservation Type:
 TZ= Trizma: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment,
 SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other _____



Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2105075 TAT std

Samples Arrival:	Date/Time 05/07/21 0933	Initials: [Signature]	Location: WR-2
			Shelf/Rack: N/A
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Techni Ice
	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None	
Temp °C: 1.4 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IQ-3
Temp °C: 1.3 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>—</u> Trk # <u>78085192 7877</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time 05/11/21 0923	Initials: [Signature]	Location: R-13, WR-2
			Shelf/Rack: 2-1, E-6, 2-3
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2105075

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2105075-01	A MW-21-01-210506	<input checked="" type="checkbox"/>	06-May-21 09:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-01	B MW-21-01-210506	<input checked="" type="checkbox"/>	06-May-21 09:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-02	A MW-21-02-210506	<input checked="" type="checkbox"/>	06-May-21 10:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-02	B MW-21-02-210506	<input checked="" type="checkbox"/>	06-May-21 10:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-03	A MW-21-03-210505	<input checked="" type="checkbox"/>	05-May-21 17:25 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-03	B MW-21-03-210505	<input checked="" type="checkbox"/>	05-May-21 17:25 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-04	A SB-21-02-210504	<input checked="" type="checkbox"/>	04-May-21 11:00 <input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?			✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

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Verified by/Date: WMS 05/11/21

Georgia-Pacific LLC (GP) - Submission of Analytical Results
Ashview Terrace Apartments, BRRTS #: 02-05-564043

Attachment 2
Property Owner Notification

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name		DNR ID # (BRRTS #)	
Ashview Terrace Apartments		02-05-564043	
Address	City	State	ZIP Code
988-1020 Willard Drive	Ashwaubenon	WI	54304

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Georgia-Pacific LLC (Responsible Party)

Address	City	State	ZIP Code
133 Peachtree Street NE	Atlanta	GA	30303
Contact Person	Phone Number (include area code)		
Michael Christopher	(281) 947-0083		

Person or company that collected samples

Tetra Tech Inc

Sample Results (Results Attached)

Reason for Sampling: Routine Other (define) Request by the Wisconsin Department of Natural Resources

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil?		In Groundwater?	
	Yes	No	Yes	No
Gasoline	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Diesel or Fuel Oil	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Solvents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Heavy Metals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pesticides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other: <u>PFAS</u>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

This sampling event included sampling of a drinking water well. <input type="radio"/> Yes <input checked="" type="radio"/> No
If yes, the sampled drinking water well had detectable contaminants. <input type="radio"/> Yes <input type="radio"/> No

Contaminants in Vapor

	Yes	No
Indoor Air	<input type="radio"/>	<input type="radio"/>
Sub-slab	<input type="radio"/>	<input type="radio"/>
Exterior Soil Gas	<input type="radio"/>	<input type="radio"/>

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Page 2 of 2

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a \$700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

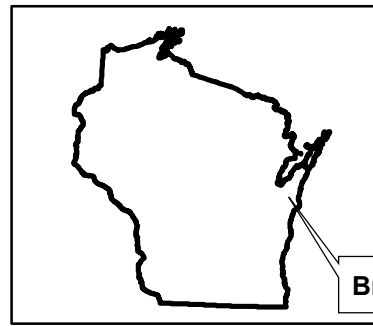
Company Name		Contact Person Last Name		First Name	
Tetra Tech		Savale		Michael	
Address			City	State	ZIP Code
				WI	
Phone # (inc. area code)	Email				
(810) 923-8076	michael.savale@tetrattech.com				

Select which agency: Natural Resources Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name		First Name		Phone # (inc. area code)	
Lauridsen		Keld			
Address			City	State	ZIP Code
2984 Shawano Avenue			Green Bay	WI	54313
Email					
Keld.Lauridsen@wisconsin.gov					

Figure 1
Monitoring Well Locations



Brown County, Wisconsin

- Project Area
- + Monitoring Well Locations



0 50 100 Feet



ORIGINAL BY: ARR
 DATE: 11/5/2020
 REVISED BY: ARR
 DATE: 6/11/2021

SITE PFAS EVALUATION
 ASHVIEW TERRACE APARTMENTS
 ASHWAUBENON, WISCONSIN
MONITORING WELL LOCATIONS

Table 1
Groundwater Analytical Results Summary

Table 1
Groundwater Analytical Results Summary
Ashview Terrace Apartments PFAS Investigation
Georgia-Pacific LLC
Ashwaubenon, Wisconsin

Parameter	CAS Number	Units	*Recommended Enforcement Standard	*Recommended Preventative Action Limit	MW-21-01	MW-21-02	MW-21-03
					5/6/21	5/6/21	5/5/21
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)							
Perfluorobutanoic acid (PFBA)	375-22-4	ng/L	10,000	2,000	18.8	3.69	15.20
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/L	--	--	25.2	2.92	5.48
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/L	150,000	30,000	15.7	1.89 (J)	3.97
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/L	--	--	8.43	1.2 (J)	3.37
Perfluorooctanoic acid (PFOA)	335-67-1	ng/L	20	2	12.1	<1.15	23.4
Perfluorononanoic acid (PFNA)	375-95-1	ng/L	30	3	<0.577	<0.596	0.687 (J)
Perfluorodecanoic acid (PFDA)	335-76-2	ng/L	300	60	<0.920	<0.949	<0.979
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/L	3,000	600	<1.37	<1.42	<1.46
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/L	500	100	<0.802	<0.828	<0.797
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/L	--	--	<1.13	<1.17	<1.20
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/L	10,000	2,000	<0.833	<8.59	<0.886
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)							
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/L	450,000	90,000	169	3.64	122
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/L	--	--	<0.925	<0.954	<0.984
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/L	40	4	1.44 (J,Q)	<1.13	<1.17
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/L	--	--	<2.52	<2.60	<2.51
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/L	20	2	1.39 (J,Q)	<1.12	3.12
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/L	--	--	<1.44	<1.49	<1.53
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/L	--	--	<2.76	<2.85	<2.94
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/L	--	--	<1.63	<1.68	<1.73
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)							
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/L	20	2	3.91	2.22 (Q)	3.7
N-methyl perfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/L	--	--	<7.00	<7.22	<7.45
N-ethyl perfluorooctane sulfonamide (NEtFOSA)	4151-50-2	ng/L	20	2	<7.46	<7.17	<7.94
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ng/L	--	--	<0.966	<0.996	<1.03
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ng/L	20	2	<2.59	<2.67	<2.76
N-methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	24448-09-7	ng/L	--	--	<8.18	<8.44	<8.70
N-ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	1691-99-2	ng/L	20	2	<5.67	<5.85	<6.04
Fluorotelomer Substances (FTS)							
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/L	--	--	<1.10	<1.14	<1.17
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/L	--	--	1.81	<1.02	5.63
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/L	--	--	<2.29	<2.36	<2.44
Replacement Chemicals							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/L	300	30	<0.634	<0.654	<0.674
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/L	3,000	600	<0.869	<0.896	<0.925
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	ng/L	--	--	<0.848	<0.875	<0.903
11-chloroheptafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	763051-92-9	ng/L	--	--	<0.436	<0.450	<0.464
**Total combined PFOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOA and PFOS		ng/L	20	2	13.49	2.22	30.22

Notes:

PFAS laboratory analysis was completed using Modified USEPA Method 537.

ng/L = nanogram per liter

J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.

Q = The ion transition ratio is outside of the acceptance criteria.

* Groundwater quality standards for PFAS have not been promulgated by the State of Wisconsin. The table above includes the Recommended Enforcement Standards and the Recommended Preventative Action Limits developed by the Wisconsin Department of Health Services for 17 PFAS.

** The Wisconsin Department of Health Services (WDHS) recommends a combined enforcement standard of 20 ng/L and combined preventative action limit of 2 ng/L for FOSA, NEtFOSE, NEtFOSA, NEtFOSAA, PFOS, and PFOA.

Bold = value exceeds the Method Detection Limit

Table 2
Soil Analytical Results Summary

Table 2
Soil Analytical Results Summary
Ashview Terrace Apartments PFAS Investigation
Georgia-Pacific LLC
Ashwaubenon, Wisconsin

Parameter	CAS Number	Units	Non-Industrial Not-to-Exceed Direct Contact Residual Contaminant Levels	SB-21-02
				5/4/21
Perfluoroalkyl Carboxylates/Carboxylic Acids (PFCA)				
Perfluorobutanoic acid (PFBA)	375-22-4	ng/g	--	<0.261
Perfluoropentanoic acid (PFPeA)	2706-90-3	ng/g	--	<0.247
Perfluorohexanoic acid (PFHxA)	307-24-4	ng/g	--	<0.625
Perfluoroheptanoic acid (PFHpA)	375-85-9	ng/g	--	<0.325
Perfluorooctanoic acid (PFOA)	335-67-1	ng/g	1,260	<0.282
Perfluorononanoic acid (PFNA)	375-95-1	ng/g	--	<0.369
Perfluorodecanoic acid (PFDA)	335-76-2	ng/g	--	<0.639
Perfluoroundecanoic acid (PFUnDA/PFUdA)	2058-94-8	ng/g	--	<0.306
Perfluorododecanoic acid (PFDoA)	307-55-1	ng/g	--	<0.400
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	ng/g	--	<0.606
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	ng/g	--	<0.596
Perfluoroalkyl Sulfonates/Sulfonic Acids (PFSA)				
Perfluorobutane sulfonic acid (PFBS)	375-73-5	ng/g	1,260,000	<0.429
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	ng/g	--	<0.318
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	ng/g	--	<0.400
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	ng/g	--	<0.618
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	ng/g	1,260	1.69
Perfluoronone sulfonic acid (PFNS)	68259-12-1	ng/g	--	<0.610
Perfluorodecane sulfonic acid (PFDS)	335-77-3	ng/g	--	<0.737
Perfluorododecanesulfonic acid (PFDoS)	79780-39-5	ng/g	--	<0.988
Perfluoroalkane Sulfonamides/Sulfonamidoacetic Acids, Sulfonamidoethanols (FASA)				
Perfluorooctane sulfonamide (PFOSA)	754-91-6	ng/g	--	<0.443
N-methyl perfluorooctane sulfonamide (NMeFOSA)	31506-32-8	ng/g	--	<3.10
N-ethyl perfluorooctane sulfonamide (N-EtFOSA)	4151-50-2	ng/g	--	<4.90
N-methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	2355-31-9	ng/g	--	<0.376
N-ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	2991-50-6	ng/g	--	<0.690
N-methyl perfluorooctane sulfonamidoethanol (N-MeFOSE)	24448-09-7	ng/g	--	<3.02
N-ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE)	1691-99-2	ng/g	--	<3.45
Fluorotelomer Substances (FTS)				
4:2 Fluorotelomer sulfonic acid (4:2FTS)	757124-72-4	ng/g	--	<0.408
6:2 Fluorotelomer sulfonic acid (6:2FTS)	27619-97-2	ng/g	--	<0.635
8:2 Fluorotelomer sulfonic acid (8:2FTS)	39108-34-4	ng/g	--	<0.527
Replacement Chemicals				
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	ng/g	--	<0.537
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ng/g	--	<0.343
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ng/g	--	<0.700
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	ng/g	--	<1.11

Notes:

PFAS laboratory analysis was completed using Modified USEPA Method 537.

ng/g = nanogram per gram

J = The amount detected is greater than the Method Detection Limit, but less than the Reporting Limit.

Q = The ion transition ratio is outside of the acceptance criteria.

Bold = value exceeds the Method Detection Limit

Laboratory Report
Vista Analytical Laboratory



May 28, 2021

Vista Work Order No. 2105075

Mr. Michael Savale
Tetra Tech
710 Avis Drive, Suite 100
Ann Arbor, MI 48108

Dear Mr. Savale,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on May 07, 2021 under your Project Name 'Ashview Terrace Apt. PFAS'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

for

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2105075

Case Narrative

Sample Condition on Receipt:

Three aqueous samples and one soil sample were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution Method (Aqueous)

The samples were extracted and analyzed for a selected list of PFAS using Vista's PFAS Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

PFAS Isotope Dilution Method (Soil)

The soil sample was extracted and analyzed for a selected list of PFAS using Vista's Isotope Dilution Method. The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The sample was extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the

preparation batch. No analytes were detected in the Method Blank above the Reporting Limit (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2105075-01	MW-21-01-210506	06-May-21 09:00	07-May-21 09:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2105075-02	MW-21-02-210506	06-May-21 10:00	07-May-21 09:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2105075-03	MW-21-03-210505	05-May-21 17:25	07-May-21 09:33	HDPE Bottle, 250 mL HDPE Bottle, 250 mL
2105075-04	SB-21-02-210504	04-May-21 11:00	07-May-21 09:33	HDPE Jar, 6 oz

ANALYTICAL RESULTS

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B1E0111-BLK1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.715	0.715	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFPeA	2706-90-3	<0.980	0.980	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFBS	375-73-5	<0.770	0.770	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
4:2 FTS	757124-72-4	<1.08	1.08	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHxA	307-24-4	<1.13	1.13	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFPeS	2706-91-4	<0.905	0.905	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
HFPO-DA	13252-13-6	<0.620	0.620	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHpA	375-85-9	<0.885	0.885	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
ADONA	919005-14-4	<0.850	0.850	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHxS	355-46-4	<1.08	1.08	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
6:2 FTS	27619-97-2	<0.965	0.965	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFOA	335-67-1	<1.09	1.09	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFHpS	375-92-8	<2.47	2.47	2.50		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFNA	375-95-1	<0.565	0.565	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFOSA	754-91-6	<1.35	1.35	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFOS	1763-23-1	<1.07	1.07	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
9Cl-PF3ONS	756426-58-1	<0.830	0.830	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDA	335-76-2	<0.900	0.900	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
8:2 FTS	39108-34-4	<2.24	2.24	2.25		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFNS	68259-12-1	<1.41	1.41	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
MeFOSAA	2355-31-9	<0.945	0.945	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
EtFOSAA	2991-50-6	<2.54	2.54	2.63		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFUnA	2058-94-8	<1.35	1.35	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDS	335-77-3	<2.71	2.71	2.75		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
11Cl-PF3OUdS	763051-92-9	<0.427	0.427	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDoA	307-55-1	<0.785	0.785	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
MeFOSA	31506-32-8	<6.85	6.85	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFTTrDA	72629-94-8	<1.11	1.11	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFDoS	79780-39-5	<1.59	1.59	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
PFTeDA	376-06-7	<0.815	0.815	2.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
EtFOSA	4151-50-2	<7.30	7.30	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
MeFOSE	24448-09-7	<8.00	8.00	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
EtFOSE	1691-99-2	<5.55	5.55	8.00		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	138	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C3-PFPeA	IS	87.9	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C3-PFBS	IS	86.2	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C3-HFPO-DA	IS	81.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1

Sample ID: Method Blank **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B1E0111-BLK1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	88.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFHxA	IS	87.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C4-PFHpA	IS	91.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C3-PFHxS	IS	91.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-6:2 FTS	IS	96.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C5-PFNA	IS	89.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C8-PFOA	IS	55.2	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFOA	IS	92.6	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C8-PFOS	IS	92.2	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFDA	IS	93.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-8:2 FTS	IS	87.6	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d3-MeFOSAA	IS	80.9	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFUnA	IS	89.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d5-EtFOSAA	IS	82.6	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFDoA	IS	82.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d3-MeFOSA	IS	28.1	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
13C2-PFTeDA	IS	72.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d5-EtFOSA	IS	27.2	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d7-MeFOSE	IS	48.3	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1
d9-EtFOSE	IS	48.3	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:10	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR
PFAS Isotope Dilution Method

Client Data					Laboratory Data							
Name:	Tetra Tech	Matrix:	Aqueous		Lab Sample:	B1E0111-BS1	Column:	BEH C18				
Project:	Ashview Terrace Apt. PFAS											

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	8.48	8.00	106	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFPeA	2706-90-3	8.23	8.00	103	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFBS	375-73-5	9.15	8.00	114	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
4:2 FTS	757124-72-4	7.89	8.00	98.6	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHxA	307-24-4	8.56	8.00	107	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFPeS	2706-91-4	9.40	8.00	118	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
HFPO-DA	13252-13-6	8.69	8.00	109	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHpA	375-85-9	7.65	8.00	95.6	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
ADONA	919005-14-4	8.10	8.00	101	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHxS	355-46-4	8.03	8.00	100	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
6:2 FTS	27619-97-2	8.11	8.00	101	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFOA	335-67-1	8.41	8.00	105	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFHpS	375-92-8	7.52	8.00	94.0	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFNA	375-95-1	8.31	8.00	104	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFOSA	754-91-6	6.80	8.00	85.0	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFOS	1763-23-1	9.06	8.00	113	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
9Cl-PF3ONS	756426-58-1	8.36	8.00	105	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDA	335-76-2	7.67	8.00	95.8	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
8:2 FTS	39108-34-4	9.67	8.00	121	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFNS	68259-12-1	8.24	8.00	103	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
MeFOSAA	2355-31-9	7.64	8.00	95.5	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
EtFOSAA	2991-50-6	7.94	8.00	99.2	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFUnA	2058-94-8	8.90	8.00	111	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDS	335-77-3	7.16	8.00	89.5	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
11Cl-PF3OUdS	763051-92-9	8.88	8.00	111	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDoA	307-55-1	7.63	8.00	95.4	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
MeFOSA	31506-32-8	7.57	8.00	94.6	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFTTrDA	72629-94-8	7.28	8.00	91.0	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFDoS	79780-39-5	7.42	8.08	91.9	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
PFTeDA	376-06-7	8.19	8.00	102	50 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
EtFOSA	4151-50-2	7.95	8.00	99.4	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
MeFOSE	24448-09-7	7.54	8.00	94.2	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
EtFOSE	1691-99-2	7.53	8.00	94.2	50 - 150	J	B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
Labeled Standards		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	B1E0111-BS1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	131	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-PFPeA	IS	85.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-PFBS	IS	80.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-HFPO-DA	IS	79.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-4:2 FTS	IS	85.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFHxA	IS	86.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C4-PFHpA	IS	90.8	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C3-PFHxS	IS	97.4	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-6:2 FTS	IS	87.2	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C5-PFNA	IS	82.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C8-PFOA	IS	59.0	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFOA	IS	87.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C8-PFOS	IS	90.9	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFDA	IS	94.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-8:2 FTS	IS	81.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d3-MeFOSAA	IS	82.0	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFUnA	IS	84.5	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d5-EtFOSAA	IS	81.7	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFDoA	IS	85.1	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d3-MeFOSA	IS	34.8	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
13C2-PFTeDA	IS	75.3	25 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d5-EtFOSA	IS	33.8	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d7-MeFOSE	IS	50.2	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1
d9-EtFOSE	IS	51.8	10 - 150		B1E0111	17-May-21	0.250 L	20-May-21 00:20	1

Sample ID: MW-21-01-210506

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-01	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 09:00	Date Received:	07-May-21 09:33		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	18.8	0.731	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFPeA	2706-90-3	25.2	1.00	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFBS	375-73-5	169	0.787	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
4:2 FTS	757124-72-4	<1.10	1.10	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHxA	307-24-4	15.7	1.15	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFPeS	2706-91-4	<0.925	0.925	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
HFPO-DA	13252-13-6	<0.634	0.634	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHpA	375-85-9	8.43	0.905	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
ADONA	919005-14-4	<0.869	0.869	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHxS	355-46-4	1.44	1.10	2.04	J, Q	B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
6:2 FTS	27619-97-2	1.81	0.986	2.04	J	B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFOA	335-67-1	12.1	1.11	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFHpS	375-92-8	<2.52	2.52	2.56		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFNA	375-95-1	<0.577	0.577	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFOSA	754-91-6	3.91	1.38	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFOS	1763-23-1	1.39	1.09	2.04	J, Q	B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
9Cl-PF3ONS	756426-58-1	<0.848	0.848	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDA	335-76-2	<0.920	0.920	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
8:2 FTS	39108-34-4	<2.29	2.29	2.30		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFNS	68259-12-1	<1.44	1.44	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
MeFOSAA	2355-31-9	<0.966	0.966	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
EtFOSAA	2991-50-6	<2.59	2.59	2.68		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFUnA	2058-94-8	<1.37	1.37	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDS	335-77-3	<2.76	2.76	2.81		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
11Cl-PF3OUdS	763051-92-9	<0.436	0.436	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDoA	307-55-1	<0.802	0.802	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
MeFOSA	31506-32-8	<7.00	7.00	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFTTrDA	72629-94-8	<1.13	1.13	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFDoS	79780-39-5	<1.63	1.63	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
PFTeDA	376-06-7	<0.833	0.833	2.04		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
EtFOSA	4151-50-2	<7.46	7.46	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
MeFOSE	24448-09-7	<8.18	8.18	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
EtFOSE	1691-99-2	<5.67	5.67	8.18		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	124	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C3-PFPeA	IS	87.4	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C3-PFBS	IS	84.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1

Sample ID: MW-21-01-210506

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-01	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 09:00	Date Received:	07-May-21 09:33		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	82.9	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-4:2 FTS	IS	92.3	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFHxA	IS	85.6	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C4-PFHpA	IS	90.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C3-PFHxS	IS	87.8	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-6:2 FTS	IS	87.6	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C5-PFNA	IS	87.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C8-PFOA	IS	64.4	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFOA	IS	87.6	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C8-PFOS	IS	85.0	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFDA	IS	87.9	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-8:2 FTS	IS	83.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d3-MeFOSAA	IS	77.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFUnA	IS	82.2	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d5-EtFOSAA	IS	79.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFDoA	IS	82.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d3-MeFOSA	IS	40.8	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
13C2-PFTeDA	IS	76.1	25 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d5-EtFOSA	IS	42.1	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d7-MeFOSE	IS	59.0	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1
d9-EtFOSE	IS	60.0	10 - 150		B1E0111	17-May-21	0.245 L	21-May-21 17:49	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-02-210506

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-02	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 10:00	Date Received:	07-May-21 09:33		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	3.69	0.754	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFPeA	2706-90-3	2.92	1.03	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFBS	375-73-5	3.64	0.812	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
4:2 FTS	757124-72-4	<1.14	1.14	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHxA	307-24-4	1.89	1.19	2.11	J	B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFPeS	2706-91-4	<0.954	0.954	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
HFPO-DA	13252-13-6	<0.654	0.654	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHpA	375-85-9	1.20	0.933	2.11	J	B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
ADONA	919005-14-4	<0.896	0.896	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHxS	355-46-4	<1.13	1.13	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
6:2 FTS	27619-97-2	<1.02	1.02	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFOA	335-67-1	<1.15	1.15	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFHpS	375-92-8	<2.60	2.60	2.64		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFNA	375-95-1	<0.596	0.596	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFOSA	754-91-6	2.22	1.42	2.11	Q	B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFOS	1763-23-1	<1.12	1.12	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
9Cl-PF3ONS	756426-58-1	<0.875	0.875	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDA	335-76-2	<0.949	0.949	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
8:2 FTS	39108-34-4	<2.36	2.36	2.37		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFNS	68259-12-1	<1.49	1.49	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
MeFOSAA	2355-31-9	<0.996	0.996	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
EtFOSAA	2991-50-6	<2.67	2.67	2.77		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFUnA	2058-94-8	<1.42	1.42	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDS	335-77-3	<2.85	2.85	2.90		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
11Cl-PF3OUdS	763051-92-9	<0.450	0.450	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDoA	307-55-1	<0.828	0.828	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
MeFOSA	31506-32-8	<7.22	7.22	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFTTrDA	72629-94-8	<1.17	1.17	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFDoS	79780-39-5	<1.68	1.68	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
PFTeDA	376-06-7	<0.859	0.859	2.11		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
EtFOSA	4151-50-2	<7.70	7.70	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
MeFOSE	24448-09-7	<8.44	8.44	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
EtFOSE	1691-99-2	<5.85	5.85	8.44		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	148	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C3-PFPeA	IS	92.9	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C3-PFBS	IS	85.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1

Sample ID: MW-21-02-210506

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-02	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	06-May-21 10:00	Date Received:	07-May-21 09:33		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	110	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-4:2 FTS	IS	92.3	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFHxA	IS	94.3	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C4-PFHpA	IS	101	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C3-PFHxS	IS	104	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-6:2 FTS	IS	92.1	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C5-PFNA	IS	90.0	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C8-PFOA	IS	74.2	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFOA	IS	94.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C8-PFOS	IS	90.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFDA	IS	90.2	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-8:2 FTS	IS	85.0	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d3-MeFOSAA	IS	84.8	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFUnA	IS	88.6	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d5-EtFOSAA	IS	87.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFDoA	IS	88.5	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d3-MeFOSA	IS	52.5	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
13C2-PFTeDA	IS	76.8	25 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d5-EtFOSA	IS	52.9	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d7-MeFOSE	IS	60.1	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1
d9-EtFOSE	IS	61.4	10 - 150		B1E0111	17-May-21	0.237 L	20-May-21 01:22	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: MW-21-03-210505

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-03	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	05-May-21 17:25	Date Received:	07-May-21 09:33		

Analyte	CAS Number	Conc. (ng/L)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	15.2	0.778	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFPeA	2706-90-3	5.48	1.07	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFBS	375-73-5	122	0.838	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
4:2 FTS	757124-72-4	<1.17	1.17	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHxA	307-24-4	3.97	1.23	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFPeS	2706-91-4	<0.984	0.984	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
HFPO-DA	13252-13-6	<0.674	0.674	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHpA	375-85-9	3.37	0.963	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
ADONA	919005-14-4	<0.925	0.925	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHxS	355-46-4	<1.17	1.17	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
6:2 FTS	27619-97-2	5.63	1.05	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFOA	335-67-1	23.4	1.19	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFHpS	375-92-8	<2.69	2.69	2.72		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFNA	375-95-1	0.687	0.615	2.18	J	B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFOSA	754-91-6	3.70	1.47	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFOS	1763-23-1	3.12	1.16	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
9Cl-PF3ONS	756426-58-1	<0.903	0.903	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDA	335-76-2	<0.979	0.979	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
8:2 FTS	39108-34-4	<2.44	2.44	2.45		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFNS	68259-12-1	<1.53	1.53	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
MeFOSAA	2355-31-9	<1.03	1.03	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
EtFOSAA	2991-50-6	<2.76	2.76	2.86		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFUnA	2058-94-8	<1.46	1.46	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDS	335-77-3	<2.94	2.94	2.99		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
11Cl-PF3OUdS	763051-92-9	<0.464	0.464	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDoA	307-55-1	<0.854	0.854	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
MeFOSA	31506-32-8	<7.45	7.45	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFTTrDA	72629-94-8	<1.20	1.20	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFDoS	79780-39-5	<1.73	1.73	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
PFTeDA	376-06-7	<0.886	0.886	2.18		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
EtFOSA	4151-50-2	<7.94	7.94	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
MeFOSE	24448-09-7	<8.70	8.70	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
EtFOSE	1691-99-2	<6.04	6.04	8.70		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	147	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C3-PFPeA	IS	92.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C3-PFBS	IS	85.6	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1

Sample ID: MW-21-03-210505

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Aqueous	Lab Sample:	2105075-03	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	05-May-21 17:25	Date Received:	07-May-21 09:33		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	79.8	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-4:2 FTS	IS	86.7	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFHxA	IS	90.7	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C4-PFHpA	IS	95.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C3-PFHxS	IS	100	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-6:2 FTS	IS	95.9	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C5-PFNA	IS	85.7	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C8-PFOA	IS	68.7	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFOA	IS	92.2	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C8-PFOS	IS	93.8	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFDA	IS	96.1	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-8:2 FTS	IS	79.9	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d3-MeFOSAA	IS	87.4	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFUnA	IS	89.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d5-EtFOSAA	IS	90.1	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFDoA	IS	92.5	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d3-MeFOSA	IS	50.5	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
13C2-PFTeDA	IS	79.4	25 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d5-EtFOSA	IS	52.0	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d7-MeFOSE	IS	61.1	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1
d9-EtFOSE	IS	62.9	10 - 150		B1E0111	17-May-21	0.230 L	20-May-21 01:33	1

MDL - Method Detection Limit

RL - Reporting limit

Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: Method Blank

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Solid	Lab Sample:	B1E0129-BLK1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.266	0.266	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFPeA	2706-90-3	<0.252	0.252	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFBS	375-73-5	<0.438	0.438	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
4:2 FTS	757124-72-4	<0.416	0.416	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHxA	307-24-4	<0.638	0.638	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFPeS	2706-91-4	<0.324	0.324	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
HFPO-DA	13252-13-6	<0.548	0.548	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHpA	375-85-9	<0.332	0.332	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
ADONA	919005-14-4	<0.350	0.350	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHxS	355-46-4	<0.408	0.408	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
6:2 FTS	27619-97-2	<0.648	0.648	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFOA	335-67-1	<0.288	0.288	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFHpS	375-92-8	<0.630	0.630	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFNA	375-95-1	<0.376	0.376	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFOSA	754-91-6	<0.452	0.452	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFOS	1763-23-1	<0.764	0.764	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
9Cl-PF3ONS	756426-58-1	<0.714	0.714	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDA	335-76-2	<0.652	0.652	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
8:2 FTS	39108-34-4	<0.538	0.538	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFNS	68259-12-1	<0.622	0.622	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
MeFOSAA	2355-31-9	<0.384	0.384	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
EtFOSAA	2991-50-6	<0.704	0.704	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFUnA	2058-94-8	<0.312	0.312	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDS	335-77-3	<0.752	0.752	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
11Cl-PF3OUdS	763051-92-9	<1.13	1.13	1.50		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDoA	307-55-1	<0.408	0.408	0.500		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
MeFOSA	31506-32-8	<3.16	3.16	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFTTrDA	72629-94-8	<0.618	0.618	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFDoS	79780-39-5	<1.01	1.01	1.50		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
PFTeDA	376-06-7	<0.608	0.608	1.00		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
EtFOSA	4151-50-2	<5.00	5.00	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
MeFOSE	24448-09-7	<3.08	3.08	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
EtFOSE	1691-99-2	<3.52	3.52	10.0		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	132	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-PFPeA	IS	82.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-PFBS	IS	87.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-HFPO-DA	IS	80.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1

Sample ID: Method Blank **PFAS Isotope Dilution Method**

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Solid	Lab Sample:	B1E0129-BLK1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C2-4:2 FTS	IS	85.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFHxA	IS	85.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C4-PFHpA	IS	90.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C3-PFHxS	IS	90.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-6:2 FTS	IS	79.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C5-PFNA	IS	81.0	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C8-PFOA	IS	47.0	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFOA	IS	89.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C8-PFOS	IS	90.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFDA	IS	70.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-8:2 FTS	IS	81.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d3-MeFOSAA	IS	58.7	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFUnA	IS	58.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d5-EtFOSAA	IS	62.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFDoA	IS	61.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d3-MeFOSA	IS	18.0	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
13C2-PFTeDA	IS	66.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d5-EtFOSA	IS	18.1	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d7-MeFOSE	IS	34.4	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1
d9-EtFOSE	IS	37.4	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:42	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Sample ID: OPR

PFAS Isotope Dilution Method

Client Data					Laboratory Data							
Name:	Tetra Tech	Matrix:	Solid		Lab Sample:	B1E0129-BS1	Column:	BEH C18				
Project:	Ashview Terrace Apt. PFAS											

Analyte	CAS Number	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	1.82	2.00	91.1	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFPeA	2706-90-3	1.95	2.00	97.7	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFBS	375-73-5	2.15	2.00	108	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
4:2 FTS	757124-72-4	2.27	2.00	113	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHxA	307-24-4	1.92	2.00	96.2	50 - 150	Q	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFPeS	2706-91-4	1.78	2.00	89.2	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
HFPO-DA	13252-13-6	2.03	2.00	102	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHpA	375-85-9	2.05	2.00	102	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
ADONA	919005-14-4	2.14	2.00	107	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHxS	355-46-4	1.75	2.00	87.3	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
6:2 FTS	27619-97-2	1.90	2.00	95.0	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFOA	335-67-1	2.02	2.00	101	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFHpS	375-92-8	1.74	2.00	86.9	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFNA	375-95-1	1.97	2.00	98.5	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFOSA	754-91-6	2.16	2.00	108	50 - 150	Q	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFOS	1763-23-1	2.20	2.00	110	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
9Cl-PF3ONS	756426-58-1	1.86	2.00	92.8	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDA	335-76-2	2.08	2.00	104	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
8:2 FTS	39108-34-4	2.23	2.00	112	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFNS	68259-12-1	1.63	2.00	81.4	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
MeFOSAA	2355-31-9	1.66	2.00	83.2	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
EtFOSAA	2991-50-6	2.00	2.00	100	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFUnA	2058-94-8	2.17	2.00	109	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDS	335-77-3	1.64	2.00	81.9	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
11Cl-PF3OUdS	763051-92-9	2.37	2.00	119	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDaA	307-55-1	1.99	2.00	99.7	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
MeFOSA	31506-32-8	1.70	2.00	85.1	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFTTrDA	72629-94-8	1.83	2.00	91.6	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFDoS	79780-39-5	2.15	2.02	107	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
PFTeDA	376-06-7	1.95	2.00	97.6	50 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
EtFOSA	4151-50-2	1.86	2.00	92.8	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
MeFOSE	24448-09-7	1.67	2.00	83.3	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
EtFOSE	1691-99-2	2.07	2.00	104	50 - 150	J	B1E0129	21-May-21	1.00 g	26-May-21 17:53	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
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Sample ID: OPR

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Solid	Lab Sample:	B1E0129-BS1	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS						

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	127	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-PFPeA	IS	82.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-PFBS	IS	96.1	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-HFPO-DA	IS	75.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-4:2 FTS	IS	91.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFHxA	IS	84.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C4-PFHpA	IS	83.0	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C3-PFHxS	IS	97.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-6:2 FTS	IS	94.0	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C5-PFNA	IS	79.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C8-PFOA	IS	44.0	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFOA	IS	86.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C8-PFOS	IS	94.5	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFDA	IS	76.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-8:2 FTS	IS	76.2	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d3-MeFOSAA	IS	65.4	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFUnA	IS	65.9	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d5-EtFOSAA	IS	64.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFDoA	IS	68.8	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d3-MeFOSA	IS	17.6	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
13C2-PFTeDA	IS	72.6	25 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d5-EtFOSA	IS	15.5	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d7-MeFOSE	IS	33.3	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1
d9-EtFOSE	IS	34.6	10 - 150		B1E0129	21-May-21	1.00 g	26-May-21 17:53	1

Sample ID: SB-21-02-210504

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Soil	Lab Sample:	2105075-04	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	04-May-21 11:00	Date Received:	07-May-21 09:33		
				% Solids:	81.0		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	<0.261	0.261	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFPeA	2706-90-3	<0.247	0.247	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFBS	375-73-5	<0.429	0.429	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
4:2 FTS	757124-72-4	<0.408	0.408	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHxA	307-24-4	<0.625	0.625	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFPeS	2706-91-4	<0.318	0.318	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
HFPO-DA	13252-13-6	<0.537	0.537	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHpA	375-85-9	<0.325	0.325	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
ADONA	919005-14-4	<0.343	0.343	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHxS	355-46-4	<0.400	0.400	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
6:2 FTS	27619-97-2	<0.635	0.635	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFOA	335-67-1	<0.282	0.282	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFHpS	375-92-8	<0.618	0.618	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFNA	375-95-1	<0.369	0.369	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFOSA	754-91-6	<0.443	0.443	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFOS	1763-23-1	1.69	0.749	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
9Cl-PF3ONS	756426-58-1	<0.700	0.700	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDA	335-76-2	<0.639	0.639	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
8:2 FTS	39108-34-4	<0.527	0.527	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFNS	68259-12-1	<0.610	0.610	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
MeFOSAA	2355-31-9	<0.376	0.376	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
EtFOSAA	2991-50-6	<0.690	0.690	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFUnA	2058-94-8	<0.306	0.306	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDS	335-77-3	<0.737	0.737	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
11Cl-PF3OUdS	763051-92-9	<1.11	1.11	1.47		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDoA	307-55-1	<0.400	0.400	0.490		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
MeFOSA	31506-32-8	<3.10	3.10	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFTTrDA	72629-94-8	<0.606	0.606	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFDoS	79780-39-5	<0.988	0.988	1.47		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
PFTeDA	376-06-7	<0.596	0.596	0.980		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
EtFOSA	4151-50-2	<4.90	4.90	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
MeFOSE	24448-09-7	<3.02	3.02	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
EtFOSE	1691-99-2	<3.45	3.45	9.80		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	145	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C3-PFPeA	IS	89.3	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C3-PFBS	IS	96.7	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1

Sample ID: SB-21-02-210504

PFAS Isotope Dilution Method

Client Data				Laboratory Data			
Name:	Tetra Tech	Matrix:	Soil	Lab Sample:	2105075-04	Column:	BEH C18
Project:	Ashview Terrace Apt. PFAS	Date Collected:	04-May-21 11:00	Date Received:	07-May-21 09:33		
				% Solids:	81.0		

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-HFPO-DA	IS	76.9	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-4:2 FTS	IS	102	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFHxA	IS	85.5	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C4-PFHpA	IS	88.6	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C3-PFHxS	IS	97.4	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-6:2 FTS	IS	103	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C5-PFNA	IS	83.9	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C8-PFOA	IS	58.4	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFOA	IS	89.5	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C8-PFOS	IS	90.6	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFDA	IS	83.7	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-8:2 FTS	IS	110	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d3-MeFOSAA	IS	74.5	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFUnA	IS	73.7	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d5-EtFOSAA	IS	77.0	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFDoA	IS	74.8	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d3-MeFOSA	IS	34.1	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
13C2-PFTeDA	IS	54.2	25 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d5-EtFOSA	IS	34.6	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d7-MeFOSE	IS	54.9	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1
d9-EtFOSE	IS	54.5	10 - 150		B1E0129	21-May-21	1.26 g	26-May-21 18:13	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to MDL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



CHAIN OF CUSTODY

For Laboratory Use Only
 Work Order #: 2105075 Temp: 13 °C
 Storage ID: R-13, WR-2 Storage Secured: Yes No

Ashtree Terrace Apt. PFA's
 Project ID: _____

PO#: 117-4124161

Sampler: Andree Gordon
 (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Specify: _____

<u>Andree Gordon</u>	<u>5-6-21</u>	<u>1200</u>	<u>FedEx</u>	<u>5-6-21</u>	<u>1200</u>
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time
<u>FedEx</u>	<u>05/07/21</u>	<u>0933</u>	<u>Justin Briseno</u>	<u>05/07/21</u>	<u>0933</u>
Relinquished by (printed name and signature)	Date	Time	Received by (printed name and signature)	Date	Time

Sample ID	Date	Time	Location/ Sample Description	Add Analysis(es) Requested										Comments		
				Quantity	Type	Matrix	PFON/PFO5	UCMR3 PFAS List:6	537.1 List: 14 or 18 (Circle One)	EPA Draft List of 24	OTHER: Please attach analytical method list	PFAS by Isotope Dilution	EPA Method 537 (DW only)			
MW-21-01-210506	5-6-21	0900		2	P	AQ									X	
MW-21-02-210506	5-6-21	1000		2	P	AQ									X	
MW-21-03-210505	5-5-21	1725		2	P	AQ									X	
SB-21-02-210504	5-4-21	1100		1	PJ	SO									X	

Special Instructions/Comment
Level IV Data Package

SEND DOCUMENTATION AND RESULTS TO:

Name: Mike Savate
 Company: Tetra Tech
 Address: 710 Aris Dr Suite 100
 City: Ann Arbor State: MI Zip: 48109
 Phone: 810-923-9076
 Email: michael.savate@tetra.tech.com

Container Types: P = HDPE, PJ = HDPE Jar Bottle Preservation Type: Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, PY = Polypropylene, O= Other TZ= Trizma: SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, O = Other

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2105075 TAT std

Samples Arrival:	Date/Time 05/07/21 0933	Initials: [Signature]	Location: WR-2
			Shelf/Rack: N/A
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Techni Ice
	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None	
Temp °C: 1.4 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N		Thermometer ID: IQ-3
Temp °C: 1.3 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Airbill <u>—</u> Trk # <u>78085192 7877</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logged In:	Date/Time 05/11/21 0923	Initials: [Signature]	Location: R-13, WR-2
			Shelf/Rack: 2-1, 6-6, 2-3
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2105075

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2105075-01	A MW-21-01-210506	<input checked="" type="checkbox"/>	06-May-21 09:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-01	B MW-21-01-210506	<input checked="" type="checkbox"/>	06-May-21 09:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-02	A MW-21-02-210506	<input checked="" type="checkbox"/>	06-May-21 10:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-02	B MW-21-02-210506	<input checked="" type="checkbox"/>	06-May-21 10:00 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-03	A MW-21-03-210505	<input checked="" type="checkbox"/>	05-May-21 17:25 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-03	B MW-21-03-210505	<input checked="" type="checkbox"/>	05-May-21 17:25 <input checked="" type="checkbox"/>	HDPE Bottle, 250 mL	Aqueous	
2105075-04	A SB-21-02-210504	<input checked="" type="checkbox"/>	04-May-21 11:00 <input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?			✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None
all Other

Verified by/Date: WMS 05/11/21