NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation
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October 14, 2021

Mr. George Meyers, Supervisor
Town of New Windsor
555 Union Avenue
New Windsor, New York 12553

Re: New Windsor Public Water Supply Well PFAS Sample Results
Butterhill Wellfield, New Windsor (T), Orange County

Dear Supervisor Meyers:

The New York State Department of Environmental Conservation (DEC) is providing you with a copy of analytical results derived from the **September 14, 2021** sampling of the temporary granular activated carbon (GAC) water treatment system by DEC representatives that was installed at the Town of New Windsor (Town) Butterhill Wellfield located at 181 Forge Hill Road.

No PFOS or PFOA was detected in the Butterhill temporary GAC-treated water. Effective August 26, 2021, the NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

The samples were analyzed for polyfluoroalkyl substances (PFAS), including Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS). Data received for the PFAS analysis has been attached.

During this event, sampling for PFAS was conducted at 28 locations.

- pre-treatment (combined raw untreated water), which has a “BH20210914PRE-GAC” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20210914-1N-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20210914-1N-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20210914-1N-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20210914-2N-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20210914-2N-50” identifier in the Client Sample ID;

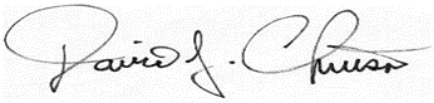
- 75 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20210914-2N-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20210914-3N-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20210914-3N-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20210914-3N-75” identifier in the Client Sample ID;
- Butterhill Well No.1 raw untreated water; which has a “BH20210914-1RAW” identifier in the Client Sample ID;
- Butterhill Well No.3 raw untreated water; which has a “BH20210914-3RAW” identifier in the Client Sample ID;
- Post-treatment (treated water after all GAC trains), which has a “BH20210914POST-GAC” identifier in the Client Sample ID.
- mid-treatment (after the first GAC canister in Pair Train No. 1 and prior to the second GAC canister in Pair Train No.1), which has a “BH20210914-1 MID” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 1), which has a “BH20210914-1 POST” identifier in the Client Sample ID;
- mid-treatment (after the first GAC canister in Pair Train No. 2 and prior to the second GAC canister in Pair Train No.2), which has a “BH20210914-2 MID” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 2), which has a “BH20210914-2 POST” identifier in the Client Sample ID;
- mid-treatment (after the first GAC canister in Pair Train No. 3 and prior to the second GAC canister in Pair Train No.3), which has a “BH20210914-3 MID” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 3), which has a “BH20210914-3 POST” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20210914-1S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20210914-1S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20210914-1S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20210914-2S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20210914-2S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20210914-2S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20210914-3S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20210914-3S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20210914-3S-75” identifier in the Client Sample ID;

The 28 locations sampled (and their associated identifiers) are depicted in Figure 1.

Please note that the next sampling event will be scheduled around January 2022.

If you have any technical questions regarding the analytical results or on the operation and performance of the GAC treatment system, please feel free to contact me or Dana Bryant, P.E., Arcadis (DEC's Project Engineer) at (518) 250-7347 or dana.bryant@arcadis.com . For weekday or off hour / weekend emergency repair issues, please call DEC's contractor, Carl Aldrich of Aztech Environmental Services at (518) 470-3052 or Todd Rollend at (518) 365-3333. For questions regarding site-related health concerns, please contact Steve Gagnon of the Orange County DOH at (845) 291-2331 or Steve Gladding, P.E., Ph.D of the NYSDOH Bureau of Water Supply Protection at (518) 402-7650; email: steven.gladding@health.ny.gov .

Sincerely,



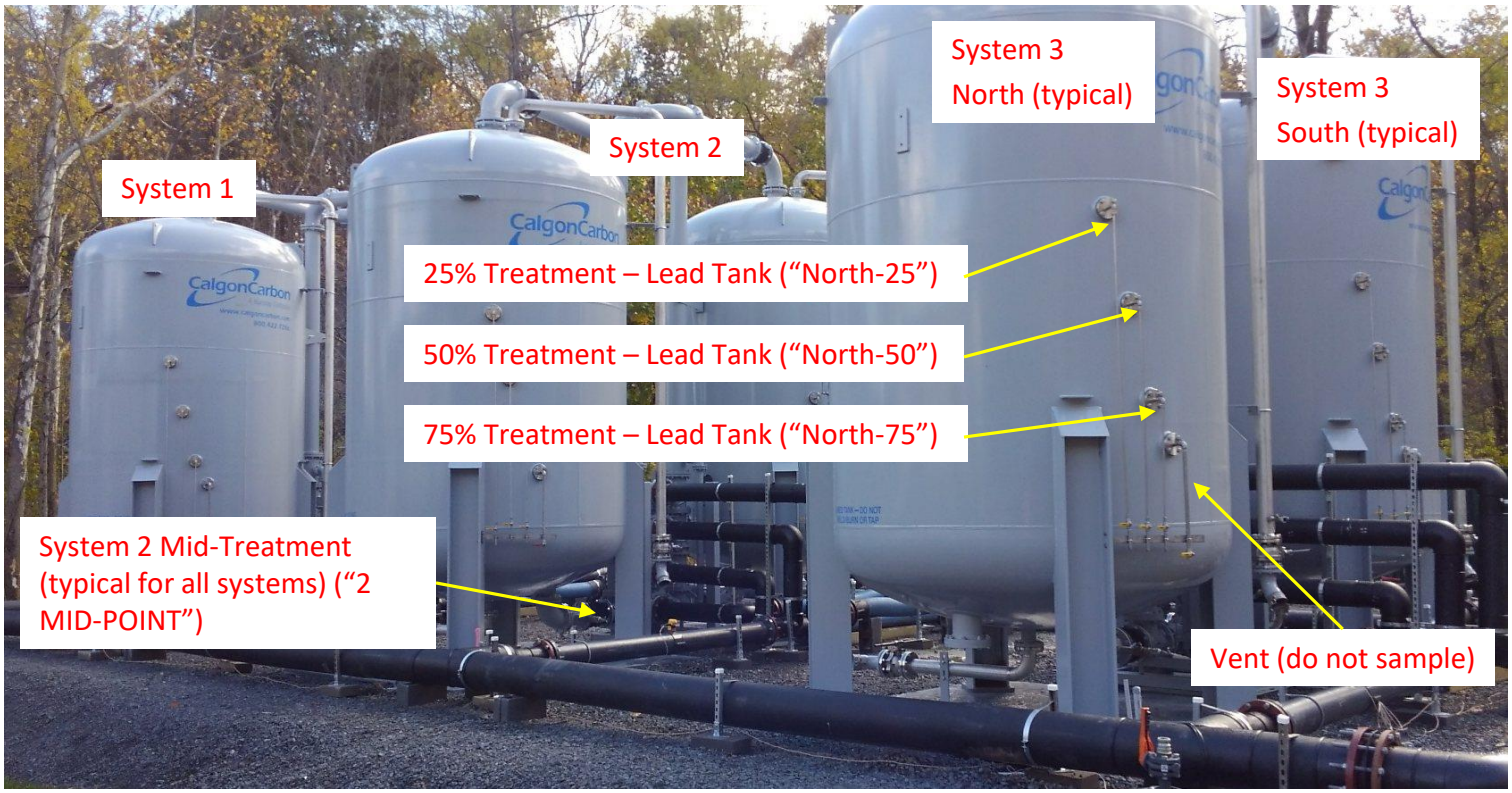
David J. Chiusano
Environmental Engineer/Project Manager
Remedial Section A, Remedial Bureau E
Division of Environmental Remediation

Enclosures

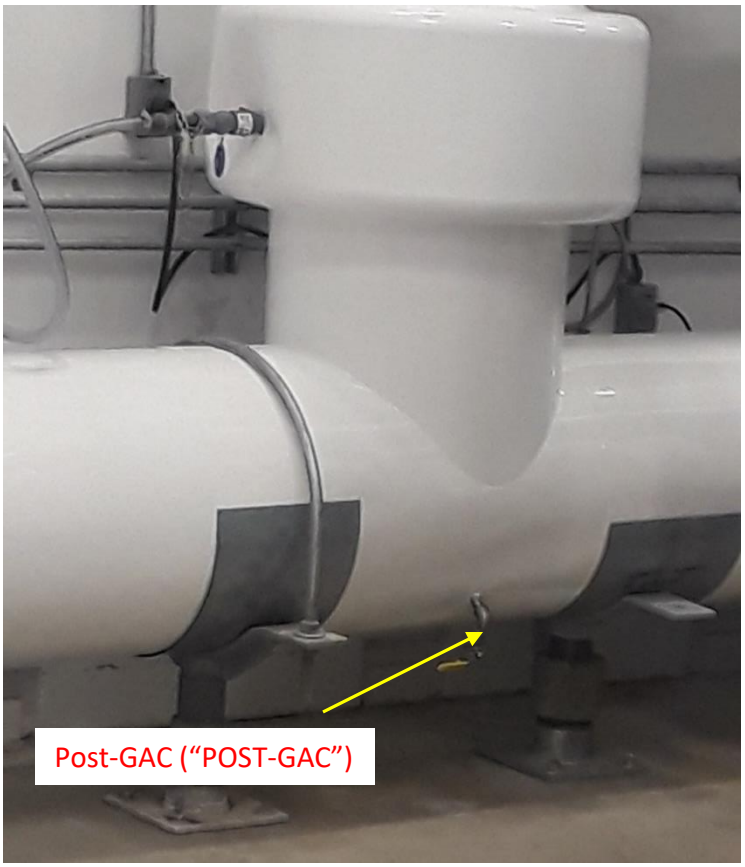
ec: w/enclosures
D. Zagon, Town of New Windsor
J. Egitto, Town of New Windsor
M. Weeks, MHE
Dr. Kim, NYSDOH
S. Gladding, NYSDOH
S. Gagnon, OCDOH
M. Andersen, OCDOH
D. Bryant, Arcadis
F. Fina, Aztech
M. Cruden, NYSDEC-DER
D. Bendell, Region 3 RHWRE

Figure 1
Sampling Locations

Butterhill Plant Temporary GAC Treatment System



Post-Filters, Pre-GAC ("PRE-GAC")



- 25%, 50%, 75% Treatment sample locations repeated on the current Lag "South" Tanks.
- Post-treatment samples for each individual System can be collected after each Lag Tank, mirrored sample location to MID-POINT sample location on Lead Tanks.

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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-78891-1
Client Project/Site: Stewart ANGB - Butterhill #336089

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Dave Chiusano

Authorized for release by:
10/5/2021 11:46:03 AM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

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Definitions/Glossary

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Qualifiers

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-78891-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-78891-1

Comments
No additional comments.

Receipt
The samples were received on 9/15/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 1.0º C.

Receipt Exceptions
The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Samples 1-11, 28 & 30, no times on all containers.
Samples 18 & 19, one of the two containers per each samples does not have containers.
Samples were logged in and labeled according to times on COC,
BH20210914PRE-GAC (320-78891-1), BH20210914POST-GAC (320-78891-2), BH20210914POST-GAC (320-78891-2[MS]), BH20210914POST-GAC (320-78891-2[MSD]), BH20210914POST-GAC DUP (320-78891-3), BH20210914-1N-25 (320-78891-4), BH20210914-1N-50 (320-78891-5), BH20210914-1N-75 (320-78891-6), BH20210914-1MID (320-78891-7), BH20210914-1S-25 (320-78891-8), BH20210914-1S-50 (320-78891-9), BH20210914-1S-75 (320-78891-10), BH20210914-1POST (320-78891-11), BH20210914-2S-75 (320-78891-18), BH20210914-2POST (320-78891-19), BH20210914-1RAW (320-78891-28) and BH20210914-3RAW (320-78891-30).

One or more containers for the following sample(s) was received empty: Sample 29 was received empty. Seems that it was not collected as we received containers with preservative still in containers. BH20210914-2RAW (320-78891-29). This sample was cancelled.

LCMS
Method 533: The Isotope Dilution Analyte (IDA) recovery associated with the LCSD 320-527737/3-A, is below the method recommended limit. Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample. The LCSD 320-527737/3-A was re-analyzed with concurring results. This is the second extraction for the associated samples. The first extraction also had a quality control (QC) failure for the same analyte. Due to insufficient sample for a third extraction, the data have been reported. The following samples are associated with LCSD 320-527737/3-A: BH20210914-2S-50 (320-78891-17), BH20210914-2S-75 (320-78891-18), BH20210914-2POST (320-78891-19), BH20210914-3N-25 (320-78891-20), BH20210914-3N-50 (320-78891-21), BH20210914-3N-75 (320-78891-22), BH20210914-3MID (320-78891-23), BH20210914-3S-25 (320-78891-24), BH20210914-3S-50 (320-78891-25), BH20210914-3S-75 (320-78891-26), BH20210914-3POST (320-78891-27), BH20210914-1RAW (320-78891-28), BH20210914-3RAW (320-78891-30) and (LCSD 320-527737/3-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 533: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-526268.

Method 533: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-527737.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914PRE-GAC — Lab Sample ID: 320-78891-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.0		1.8		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		1.8		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.8		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.9		1.8		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.3		1.8		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.1		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914POST-GAC — Lab Sample ID: 320-78891-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.6		1.8		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914POST-GAC DUP — Lab Sample ID: 320-78891-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.7		1.7		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1N-25 — Lab Sample ID: 320-78891-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.3		1.7		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		1.7		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.7		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.7		1.7		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.3		1.7		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1N-50 — Lab Sample ID: 320-78891-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.0		1.8		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.8		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.1		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1N-75 — Lab Sample ID: 320-78891-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.7		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	1.8		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.7		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1MID — Lab Sample ID: 320-78891-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.6		1.8		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.4		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1S-25 — Lab Sample ID: 320-78891-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.7		1.8		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	1.8		1.8		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: BH20210914-1S-25 (Continued)
Lab Sample ID: 320-78891-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	4.2		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1S-50
Lab Sample ID: 320-78891-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.4		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.4		1.7		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1S-75
Lab Sample ID: 320-78891-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.6		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.7		1.7		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1POST
Lab Sample ID: 320-78891-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.7		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-2N-25
Lab Sample ID: 320-78891-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.4		1.8		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.5		1.8		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.5		1.8		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0		1.8		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.8		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.7		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-2N-50
Lab Sample ID: 320-78891-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.8		1.8		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.8		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		1.8		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		1.8		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.3		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-2N-75
Lab Sample ID: 320-78891-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		1.7		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.3		1.7		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-2MID
Lab Sample ID: 320-78891-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.8		1.7		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		1.7		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-2S-25 — Lab Sample ID: 320-78891-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.4		1.8		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.5		1.8		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-2S-50 — Lab Sample ID: 320-78891-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.4		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.2		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-2S-75 — Lab Sample ID: 320-78891-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.6		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.9		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-2POST — Lab Sample ID: 320-78891-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.5		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.5		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3N-25 — Lab Sample ID: 320-78891-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.1		1.9		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.0		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.6		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3N-50 — Lab Sample ID: 320-78891-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.1		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.9		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3N-75 — Lab Sample ID: 320-78891-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.6		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3MID — Lab Sample ID: 320-78891-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.5		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3S-25 — Lab Sample ID: 320-78891-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.8		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.3		1.9		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-3S-50
Lab Sample ID: 320-78891-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.6		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	4.5		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3S-75
Lab Sample ID: 320-78891-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.3		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3POST
Lab Sample ID: 320-78891-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.0		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.0		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-1RAW
Lab Sample ID: 320-78891-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		1.9		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1		1.9		ng/L	1		533	Total/NA

Client Sample ID: BH20210914-3RAW
Lab Sample ID: 320-78891-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.6		1.9		ng/L	1		533	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	3.6		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.5		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	5.4		1.9		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914PRE-GAC
Lab Sample ID: 320-78891-1
Date Collected: 09/14/21 10:40
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorobutanoic acid (PFBA)	**6.0**		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorobutanesulfonic acid (PFBS)	**2.7**		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 10:12	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorohexanesulfonic acid (PFHxS)	**3.1**		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorooctanesulfonic acid (PFOS)	**2.9**		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluorooctanoic acid (PFOA)	**2.3**		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoropentanoic acid (PFPeA)	**2.1**		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:12	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C5 PFPeA	*103*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C3 PFBS	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
M2-4:2 FTS	*162*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C5 PFHxA	*104*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C3 HFPO-DA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C4 PFHpA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
M2-6:2 FTS	*134*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C8 PFOA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C9 PFNA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C8 PFOS	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
M2-8:2 FTS	*123*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*
13C6 PFDA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:12*	*1*

Client Sample ID: BH20210914PRE-GAC
Lab Sample ID: 320-78891-1
Date Collected: 09/14/21 10:40
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C7 PFUnA	93		50 - 200	09/24/21 11:32	09/25/21 10:12	1
13C2 PFDoA	93		50 - 200	09/24/21 11:32	09/25/21 10:12	1
13C3 PFHxS	92		50 - 200	09/24/21 11:32	09/25/21 10:12	1

Client Sample ID: BH20210914POST-GAC
Lab Sample ID: 320-78891-2
Date Collected: 09/14/21 10:42
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorobutanoic acid (PFBA)	**5.6**		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 10:58	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoropentanoic acid (PFPeA)	**3.6**		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		50 - 200	09/24/21 11:32	09/25/21 10:58	1
13C5 PFPeA	99		50 - 200	09/24/21 11:32	09/25/21 10:58	1
13C3 PFBS	97		50 - 200	09/24/21 11:32	09/25/21 10:58	1
M2-4:2 FTS	157		50 - 200	09/24/21 11:32	09/25/21 10:58	1
13C5 PFHxA	99		50 - 200	09/24/21 11:32	09/25/21 10:58	1
13C3 HFPO-DA	88		50 - 200	09/24/21 11:32	09/25/21 10:58	1

Client Sample ID: BH20210914POST-GAC
Lab Sample ID: 320-78891-2
Date Collected: 09/14/21 10:42
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFHpA	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
M2-6:2 FTS	*138*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
13C8 PFOA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
13C9 PFNA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
13C8 PFOS	*110*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
M2-8:2 FTS	*119*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
13C6 PFDA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
13C7 PFUnA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
13C2 PFDoA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*
13C3 PFHxS	*104*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:58*	*1*

Client Sample ID: BH20210914POST-GAC DUP
Lab Sample ID: 320-78891-3
Date Collected: 09/14/21 10:44
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorobutanoic acid (PFBA)	**5.5**		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 10:21	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoropentanoic acid (PFPeA)	**3.7**		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:21	1

Client Sample ID: BH20210914POST-GAC DUP
Lab Sample ID: 320-78891-3

Date Collected: 09/14/21 10:44
Matrix: Water
Date Received: 09/14/21 17:35

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C5 PFPeA	91		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C3 PFBS	82		50 - 200	09/24/21 11:32	09/25/21 10:21	1
M2-4:2 FTS	152		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C5 PFHxA	104		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C3 HFPO-DA	108		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C4 PFHpA	96		50 - 200	09/24/21 11:32	09/25/21 10:21	1
M2-6:2 FTS	121		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C8 PFOA	85		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C9 PFNA	99		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C8 PFOS	97		50 - 200	09/24/21 11:32	09/25/21 10:21	1
M2-8:2 FTS	119		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C6 PFDA	96		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C7 PFUnA	103		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C2 PFDoA	99		50 - 200	09/24/21 11:32	09/25/21 10:21	1
13C3 PFHxS	95		50 - 200	09/24/21 11:32	09/25/21 10:21	1

Client Sample ID: BH20210914-1N-25
Lab Sample ID: 320-78891-4

Date Collected: 09/14/21 11:32
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorobutanoic acid (PFBA)	**6.3**		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorobutanesulfonic acid (PFBS)	**2.5**		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 10:30	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorohexanesulfonic acid (PFHxS)	**2.5**		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1

Client Sample ID: BH20210914-1N-25
Lab Sample ID: 320-78891-4

Date Collected: 09/14/21 11:32
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	**2.7**		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluorooctanoic acid (PFOA)	**2.1**		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoropentanoic acid (PFPeA)	**2.3**		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:30	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C5 PFPeA	*105*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C3 PFBS	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
M2-4:2 FTS	*179*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C5 PFHxA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C3 HFPO-DA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C4 PFHpA	*103*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
M2-6:2 FTS	*154*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C8 PFOA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C9 PFNA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C8 PFOS	*113*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
M2-8:2 FTS	*126*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C6 PFDA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C7 PFUnA	*92*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C2 PFDoA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*
13C3 PFHxS	*102*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:30*	*1*

Client Sample ID: BH20210914-1N-50
Lab Sample ID: 320-78891-5

Date Collected: 09/14/21 11:33
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorobutanoic acid (PFBA)	**6.0**		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorobutanesulfonic acid (PFBS)	**2.1**		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoroheptanoic acid (PFHpA)	ND		3.6		ng/L		09/24/21 11:32	09/25/21 10:39	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1

Client Sample ID: BH20210914-1N-50

Lab Sample ID: 320-78891-5

Date Collected: 09/14/21 11:33

Matrix: Water

Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoropentanoic acid (PFPeA)	**3.1**		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 10:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C5 PFPeA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C3 PFBS	*89*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
M2-4:2 FTS	*170*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C5 PFHxA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C3 HFPO-DA	*89*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C4 PFHpA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
M2-6:2 FTS	*129*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C8 PFOA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C9 PFNA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C8 PFOS	*102*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
M2-8:2 FTS	*118*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C6 PFDA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C7 PFUnA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C2 PFDoA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*
13C3 PFHxS	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:39*	*1*

Client Sample ID: BH20210914-1N-75

Lab Sample ID: 320-78891-6

Date Collected: 09/14/21 11:34

Matrix: Water

Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorobutanoic acid (PFBA)	**5.5**		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1

Client Sample ID: BH20210914-1N-75

Lab Sample ID: 320-78891-6

Date Collected: 09/14/21 11:34

Matrix: Water

Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoroheptanoic acid (PFHpA)	ND		3.4		ng/L		09/24/21 11:32	09/25/21 10:48	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorohexanoic acid (PFHxA)	**1.8**		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoropentanoic acid (PFPeA)	**3.4**		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 10:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C5 PFPeA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C3 PFBS	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
M2-4:2 FTS	*173*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C5 PFHxA	*105*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C3 HFPO-DA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C4 PFHpA	*104*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
M2-6:2 FTS	*136*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C8 PFOA	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C9 PFNA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C8 PFOS	*104*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
M2-8:2 FTS	*123*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C6 PFDA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C7 PFUnA	*102*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C2 PFDoA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*
13C3 PFHxS	*105*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:48*	*1*

Client Sample ID: BH20210914-1MID

Lab Sample ID: 320-78891-7

Date Collected: 09/14/21 11:35

Matrix: Water

Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-1MID
Lab Sample ID: 320-78891-7
Date Collected: 09/14/21 11:35
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorobutanoic acid (PFBA)	**5.6**		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 11:52	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoropentanoic acid (PFPeA)	**4.4**		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 11:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C5 PFPeA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C3 PFBS	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
M2-4:2 FTS	*159*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C5 PFHxA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C3 HFPO-DA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C4 PFHpA	*89*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
M2-6:2 FTS	*142*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C8 PFOA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C9 PFNA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C8 PFOS	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
M2-8:2 FTS	*125*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C6 PFDA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C7 PFUnA	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C2 PFDoA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*
13C3 PFHxS	*104*		*50 - 200*	*09/24/21 11:32*	*09/25/21 11:52*	*1*

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-1S-25
Lab Sample ID: 320-78891-8
Date Collected: 09/14/21 11:37
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorobutanoic acid (PFBA)	**5.7**		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 12:02	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorohexanoic acid (PFHxA)	**1.8**		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoropentanoic acid (PFPeA)	**4.2**		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C5 PFPeA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C3 PFBS	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
M2-4:2 FTS	*150*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C5 PFHxA	*103*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C3 HFPO-DA	*102*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C4 PFHpA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
M2-6:2 FTS	*141*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C8 PFOA	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C9 PFNA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C8 PFOS	*110*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
M2-8:2 FTS	*121*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C6 PFDA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C7 PFUnA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C2 PFDoA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*
13C3 PFHxS	*105*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:02*	*1*

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-1S-50
Lab Sample ID: 320-78891-9
Date Collected: 09/14/21 11:38
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorobutanoic acid (PFBA)	**5.4**		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoroheptanoic acid (PFHpA)	ND		3.4		ng/L		09/24/21 11:32	09/25/21 12:11	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoropentanoic acid (PFPeA)	**4.4**		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C5 PFPeA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C3 PFBS	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
M2-4:2 FTS	*149*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C5 PFHxA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C3 HFPO-DA	*82*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C4 PFHpA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
M2-6:2 FTS	*125*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C8 PFOA	*89*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C9 PFNA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C8 PFOS	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
M2-8:2 FTS	*118*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C6 PFDA	*92*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C7 PFUnA	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C2 PFDoA	*84*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*
13C3 PFHxS	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:11*	*1*

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-1S-75

Date Collected: 09/14/21 11:40
Date Received: 09/14/21 17:35

Lab Sample ID: 320-78891-10

Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorobutanoic acid (PFBA)	**5.6**		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 12:20	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoropentanoic acid (PFPeA)	**3.7**		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:20	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C5 PFPeA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C3 PFBS	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
M2-4:2 FTS	*155*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C5 PFHxA	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C3 HFPO-DA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C4 PFHpA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
M2-6:2 FTS	*140*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C8 PFOA	*84*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C9 PFNA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C8 PFOS	*104*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
M2-8:2 FTS	*121*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C6 PFDA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C7 PFUnA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C2 PFDoA	*87*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*
13C3 PFHxS	*104*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:20*	*1*

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-1POST
Lab Sample ID: 320-78891-11
Date Collected: 09/14/21 11:41
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorobutanoic acid (PFBA)	**5.5**		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 12:29	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoropentanoic acid (PFPeA)	**3.4**		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C5 PFPeA	*92*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C3 PFBS	*86*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
M2-4:2 FTS	*146*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C5 PFHxA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C3 HFPO-DA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C4 PFHpA	*92*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
M2-6:2 FTS	*140*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C8 PFOA	*89*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C9 PFNA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C8 PFOS	*109*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
M2-8:2 FTS	*122*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C6 PFDA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C7 PFUnA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C2 PFDoA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*
13C3 PFHxS	*102*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:29*	*1*

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-2N-25
Lab Sample ID: 320-78891-12
Date Collected: 09/14/21 11:17
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorobutanoic acid (PFBA)	**6.4**		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorobutanesulfonic acid (PFBS)	**2.5**		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 12:38	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorohexanesulfonic acid (PFHxS)	**2.5**		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorooctanesulfonic acid (PFOS)	**3.0**		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluorooctanoic acid (PFOA)	**2.1**		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoropentanoic acid (PFPeA)	**2.7**		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:38	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C5 PFPeA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C3 PFBS	*84*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
M2-4:2 FTS	*162*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C5 PFHxA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C3 HFPO-DA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C4 PFHpA	*92*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
M2-6:2 FTS	*131*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C8 PFOA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C9 PFNA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C8 PFOS	*87*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
M2-8:2 FTS	*108*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C6 PFDA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*

Client Sample ID: BH20210914-2N-25
Lab Sample ID: 320-78891-12
Date Collected: 09/14/21 11:17
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C7 PFUnA	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C2 PFDoA	*88*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*
13C3 PFHxS	*92*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:38*	*1*

Client Sample ID: BH20210914-2N-50
Lab Sample ID: 320-78891-13
Date Collected: 09/14/21 11:18
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorobutanoic acid (PFBA)	**5.8**		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorobutanesulfonic acid (PFBS)	**2.1**		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 12:47	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorooctanesulfonic acid (PFOS)	**2.0**		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluorooctanoic acid (PFOA)	**2.0**		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoropentanoic acid (PFPeA)	**3.3**		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 12:47	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:47*	*1*
13C5 PFPeA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:47*	*1*
13C3 PFBS	*89*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:47*	*1*
M2-4:2 FTS	*168*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:47*	*1*
13C5 PFHxA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:47*	*1*

Client Sample ID: BH20210914-2N-50
Lab Sample ID: 320-78891-13

Date Collected: 09/14/21 11:18
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C4 PFHpA	95		50 - 200	09/24/21 11:32	09/25/21 12:47	1
M2-6:2 FTS	147		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C8 PFOA	89		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C9 PFNA	93		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C8 PFOS	98		50 - 200	09/24/21 11:32	09/25/21 12:47	1
M2-8:2 FTS	114		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C6 PFDA	94		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C7 PFUnA	100		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C2 PFDoA	89		50 - 200	09/24/21 11:32	09/25/21 12:47	1
13C3 PFHxS	100		50 - 200	09/24/21 11:32	09/25/21 12:47	1

Client Sample ID: BH20210914-2N-75
Lab Sample ID: 320-78891-14

Date Collected: 09/14/21 11:21
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorobutanoic acid (PFBA)	**5.5**		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 12:56	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorohexanoic acid (PFHxA)	**1.7**		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluoropentanoic acid (PFPeA)	**3.3**		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1

Client Sample ID: BH20210914-2N-75
Lab Sample ID: 320-78891-14

Date Collected: 09/14/21 11:21
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 12:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C5 PFPeA	*112*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C3 PFBS	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
M2-4:2 FTS	*147*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C5 PFHxA	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C3 HFPO-DA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C4 PFHpA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
M2-6:2 FTS	*134*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C8 PFOA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C9 PFNA	*109*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C8 PFOS	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
M2-8:2 FTS	*118*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C6 PFDA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C7 PFUnA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C2 PFDoA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*
13C3 PFHxS	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 12:56*	*1*

Client Sample ID: BH20210914-2MID
Lab Sample ID: 320-78891-15

Date Collected: 09/14/21 11:23
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
9Cl-PF3ONS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorobutanoic acid (PFBA)	**5.8**		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoroheptanoic acid (PFHpA)	ND		3.5		ng/L		09/24/21 11:32	09/25/21 13:06	1
4:2 FTS	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1

Client Sample ID: BH20210914-2MID
Lab Sample ID: 320-78891-15

Date Collected: 09/14/21 11:23
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoropentanoic acid (PFPeA)	**3.6**		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		09/24/21 11:32	09/25/21 13:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C5 PFPeA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C3 PFBS	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
M2-4:2 FTS	*170*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C5 PFHxA	*97*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C3 HFPO-DA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C4 PFHpA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
M2-6:2 FTS	*138*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C8 PFOA	*91*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C9 PFNA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C8 PFOS	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
M2-8:2 FTS	*120*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C6 PFDA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C7 PFUnA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C2 PFDoA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*
13C3 PFHxS	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:06*	*1*

Client Sample ID: BH20210914-2S-25
Lab Sample ID: 320-78891-16

Date Collected: 09/14/21 11:24
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
9Cl-PF3ONS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorobutanoic acid (PFBA)	**5.4**		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoroheptanoic acid (PFHpA)	ND		3.6		ng/L		09/24/21 11:32	09/25/21 13:15	1
4:2 FTS	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1

Client Sample ID: BH20210914-2S-25
Lab Sample ID: 320-78891-16

Date Collected: 09/14/21 11:24
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoropentanoic acid (PFPeA)	**4.5**		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		09/24/21 11:32	09/25/21 13:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C5 PFPeA	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C3 PFBS	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
M2-4:2 FTS	*155*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C5 PFHxA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C3 HFPO-DA	*99*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C4 PFHpA	*100*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
M2-6:2 FTS	*136*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C8 PFOA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C9 PFNA	*103*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C8 PFOS	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
M2-8:2 FTS	*120*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C6 PFDA	*98*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C7 PFUnA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C2 PFDoA	*96*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*
13C3 PFHxS	*102*		*50 - 200*	*09/24/21 11:32*	*09/25/21 13:15*	*1*

Client Sample ID: BH20210914-2S-50
Lab Sample ID: 320-78891-17

Date Collected: 09/14/21 11:25
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorobutanoic acid (PFBA)	**4.4**		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1

Client Sample ID: BH20210914-2S-50
Lab Sample ID: 320-78891-17

Date Collected: 09/14/21 11:25
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 07:41	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoropentanoic acid (PFPeA)	**3.2**		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*86*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C5 PFPeA	*90*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C3 PFBS	*117*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
M2-4:2 FTS	*163*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C5 PFHxA	*95*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C3 HFPO-DA	*116*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C4 PFHpA	*96*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
M2-6:2 FTS	*147*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C8 PFOA	*85*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C9 PFNA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C8 PFOS	*104*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
M2-8:2 FTS	*118*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C6 PFDA	*88*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C7 PFUnA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C2 PFDoA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*
13C3 PFHxS	*106*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:41*	*1*

Client Sample ID: BH20210914-2S-75
Lab Sample ID: 320-78891-18

Date Collected: 09/14/21 11:27
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-2S-75
Date Collected: 09/14/21 11:27
Date Received: 09/14/21 17:35

Lab Sample ID: 320-78891-18
Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorobutanoic acid (PFBA)	**4.6**		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoroheptanoic acid (PFHpA)	ND		3.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoropentanoic acid (PFPeA)	**2.9**		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 07:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C5 PFPeA	*89*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C3 PFBS	*118*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
M2-4:2 FTS	*166*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C5 PFHxA	*90*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C3 HFPO-DA	*88*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C4 PFHpA	*83*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
M2-6:2 FTS	*145*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C8 PFOA	*73*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C9 PFNA	*84*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C8 PFOS	*108*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
M2-8:2 FTS	*132*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C6 PFDA	*87*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C7 PFUnA	*91*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C2 PFDoA	*102*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*
13C3 PFHxS	*111*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:51*	*1*

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-2POST
Date Collected: 09/14/21 11:29
Date Received: 09/14/21 17:35

Lab Sample ID: 320-78891-19
Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorobutanoic acid (PFBA)	**4.5**		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 08:00	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoropentanoic acid (PFPeA)	**2.5**		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C5 PFPeA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C3 PFBS	*130*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
M2-4:2 FTS	*154*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C5 PFHxA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C3 HFPO-DA	*118*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C4 PFHpA	*99*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
M2-6:2 FTS	*158*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C8 PFOA	*83*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C9 PFNA	*92*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C8 PFOS	*113*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
M2-8:2 FTS	*137*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C6 PFDA	*87*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C7 PFUnA	*94*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C2 PFDoA	*96*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*
13C3 PFHxS	*115*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:00*	*1*

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-3N-25

Date Collected: 09/14/21 10:59
Date Received: 09/14/21 17:35

Lab Sample ID: 320-78891-20

Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorobutanoic acid (PFBA)	**5.1**		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoroheptanoic acid (PFHpA)	ND		3.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorohexanesulfonic acid (PFHxS)	**2.3**		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorooctanesulfonic acid (PFOS)	**3.0**		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluorooctanoic acid (PFOA)	**2.1**		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoropentanoic acid (PFPeA)	**2.6**		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C5 PFPeA	*112*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C3 PFBS	*127*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
M2-4:2 FTS	*171*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C5 PFHxA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C3 HFPO-DA	*118*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C4 PFHpA	*105*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
M2-6:2 FTS	*152*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C8 PFOA	*92*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C9 PFNA	*95*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C8 PFOS	*102*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
M2-8:2 FTS	*129*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C6 PFDA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C7 PFUnA	*92*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*

Client Sample ID: BH20210914-3N-25
Lab Sample ID: 320-78891-20
Date Collected: 09/14/21 10:59
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDoA	*96*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*
13C3 PFHxS	*110*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:09*	*1*

Client Sample ID: BH20210914-3N-50
Lab Sample ID: 320-78891-21
Date Collected: 09/14/21 11:00
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorobutanoic acid (PFBA)	**5.1**		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 08:18	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorooctanesulfonic acid (PFOS)	**1.9**		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoropentanoic acid (PFPeA)	**3.4**		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:18	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:18*	*1*
13C5 PFPeA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:18*	*1*
13C3 PFBS	*130*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:18*	*1*
M2-4:2 FTS	*193*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:18*	*1*
13C5 PFHxA	*98*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:18*	*1*
13C3 HFPO-DA	*115*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:18*	*1*

Client Sample ID: BH20210914-3N-50
Lab Sample ID: 320-78891-21

Date Collected: 09/14/21 11:00
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	99		50 - 200	09/23/21 12:07	09/24/21 08:18	1
M2-6:2 FTS	149		50 - 200	09/23/21 12:07	09/24/21 08:18	1
13C8 PFOA	90		50 - 200	09/23/21 12:07	09/24/21 08:18	1
13C9 PFNA	98		50 - 200	09/23/21 12:07	09/24/21 08:18	1
13C8 PFOS	111		50 - 200	09/23/21 12:07	09/24/21 08:18	1
M2-8:2 FTS	133		50 - 200	09/23/21 12:07	09/24/21 08:18	1
13C6 PFDA	94		50 - 200	09/23/21 12:07	09/24/21 08:18	1
13C7 PFUnA	94		50 - 200	09/23/21 12:07	09/24/21 08:18	1
13C2 PFDoA	103		50 - 200	09/23/21 12:07	09/24/21 08:18	1
13C3 PFHxS	111		50 - 200	09/23/21 12:07	09/24/21 08:18	1

Client Sample ID: BH20210914-3N-75
Lab Sample ID: 320-78891-22

Date Collected: 09/14/21 11:01
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorobutanoic acid (PFBA)	**4.6**		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoroheptanoic acid (PFHpA)	ND		3.7		ng/L		09/23/21 12:07	09/24/21 08:27	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorohexanoic acid (PFHxA)	**2.0**		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoropentanoic acid (PFPeA)	**3.4**		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:27	1

Client Sample ID: BH20210914-3N-75
Lab Sample ID: 320-78891-22

Date Collected: 09/14/21 11:01
Matrix: Water
Date Received: 09/14/21 17:35

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*95*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C5 PFPeA	*104*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C3 PFBS	*131*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
M2-4:2 FTS	*180*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C5 PFHxA	*96*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C3 HFPO-DA	*111*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C4 PFHpA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
M2-6:2 FTS	*157*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C8 PFOA	*90*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C9 PFNA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C8 PFOS	*114*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
M2-8:2 FTS	*132*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C6 PFDA	*92*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C7 PFUnA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C2 PFDoA	*100*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*
13C3 PFHxS	*116*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:27*	*1*

Client Sample ID: BH20210914-3MID
Lab Sample ID: 320-78891-23

Date Collected: 09/14/21 11:04
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorobutanoic acid (PFBA)	**4.5**		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoroheptanoic acid (PFHpA)	ND		3.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1

Client Sample ID: BH20210914-3MID
Lab Sample ID: 320-78891-23

Date Collected: 09/14/21 11:04
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoropentanoic acid (PFPeA)	**3.4**		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 08:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C5 PFPeA	*95*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C3 PFBS	*120*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
M2-4:2 FTS	*168*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C5 PFHxA	*94*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C3 HFPO-DA	*111*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C4 PFHpA	*91*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
M2-6:2 FTS	*148*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C8 PFOA	*84*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C9 PFNA	*85*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C8 PFOS	*110*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
M2-8:2 FTS	*124*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C6 PFDA	*86*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C7 PFUnA	*85*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C2 PFDoA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*
13C3 PFHxS	*107*		*50 - 200*	*09/23/21 12:07*	*09/24/21 08:36*	*1*

Client Sample ID: BH20210914-3S-25
Lab Sample ID: 320-78891-24

Date Collected: 09/14/21 11:07
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorobutanoic acid (PFBA)	**4.8**		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 09:22	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1

Client Sample ID: BH20210914-3S-25
Lab Sample ID: 320-78891-24

Date Collected: 09/14/21 11:07
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluoropentanoic acid (PFPeA)	**4.3**		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C5 PFPeA	*88*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C3 PFBS	*127*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
M2-4:2 FTS	*162*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C5 PFHxA	*94*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C3 HFPO-DA	*104*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C4 PFHpA	*89*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
M2-6:2 FTS	*139*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C8 PFOA	*83*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C9 PFNA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C8 PFOS	*109*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
M2-8:2 FTS	*128*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C6 PFDA	*89*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C7 PFUnA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C2 PFDoA	*101*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*
13C3 PFHxS	*112*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:22*	*1*

Client Sample ID: BH20210914-3S-50
Lab Sample ID: 320-78891-25

Date Collected: 09/14/21 11:09
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorobutanoic acid (PFBA)	**4.6**		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1

Client Sample ID: BH20210914-3S-50

Lab Sample ID: 320-78891-25

Date Collected: 09/14/21 11:09

Matrix: Water

Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 09:31	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluoropentanoic acid (PFPeA)	**4.5**		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C5 PFPeA	*103*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C3 PFBS	*128*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
M2-4:2 FTS	*170*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C5 PFHxA	*98*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C3 HFPO-DA	*118*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C4 PFHpA	*105*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
M2-6:2 FTS	*145*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C8 PFOA	*88*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C9 PFNA	*94*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C8 PFOS	*115*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
M2-8:2 FTS	*132*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C6 PFDA	*91*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C7 PFUnA	*98*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C2 PFDoA	*100*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*
13C3 PFHxS	*114*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:31*	*1*

Client Sample ID: BH20210914-3S-75

Lab Sample ID: 320-78891-26

Date Collected: 09/14/21 11:10

Matrix: Water

Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-3S-75
Lab Sample ID: 320-78891-26
Date Collected: 09/14/21 11:10
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorobutanoic acid (PFBA)	**5.3**		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 09:41	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoropentanoic acid (PFPeA)	**3.6**		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*81*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C5 PFPeA	*90*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C3 PFBS	*133*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
M2-4:2 FTS	*172*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C5 PFHxA	*105*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C3 HFPO-DA	*130*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C4 PFHpA	*100*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
M2-6:2 FTS	*152*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C8 PFOA	*84*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C9 PFNA	*98*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C8 PFOS	*116*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
M2-8:2 FTS	*134*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C6 PFDA	*103*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C7 PFUnA	*108*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C2 PFDoA	*114*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*
13C3 PFHxS	*117*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:41*	*1*

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-3POST

Date Collected: 09/14/21 11:13
Date Received: 09/14/21 17:35

Lab Sample ID: 320-78891-27

Matrix: Water

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorobutanoic acid (PFBA)	**5.0**		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 09:50	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoropentanoic acid (PFPeA)	**3.0**		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*92*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C5 PFPeA	*94*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C3 PFBS	*131*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
M2-4:2 FTS	*168*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C5 PFHxA	*99*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C3 HFPO-DA	*110*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C4 PFHpA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
M2-6:2 FTS	*148*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C8 PFOA	*78*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C9 PFNA	*87*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C8 PFOS	*116*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
M2-8:2 FTS	*132*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C6 PFDA	*84*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C7 PFUnA	*93*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C2 PFDoA	*101*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*
13C3 PFHxS	*118*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:50*	*1*

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-1RAW
Lab Sample ID: 320-78891-28
Date Collected: 09/14/21 12:00
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorobutanoic acid (PFBA)	**5.2**		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoroheptanoic acid (PFHpA)	ND		3.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorohexanesulfonic acid (PFHxS)	**2.2**		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorooctanesulfonic acid (PFOS)	**2.1**		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoropentanoic acid (PFPeA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 09:59	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*91*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C5 PFPeA	*100*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C3 PFBS	*134*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
M2-4:2 FTS	*174*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C5 PFHxA	*99*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C3 HFPO-DA	*107*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C4 PFHpA	*98*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
M2-6:2 FTS	*164*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C8 PFOA	*92*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C9 PFNA	*96*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C8 PFOS	*111*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
M2-8:2 FTS	*142*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C6 PFDA	*97*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C7 PFUnA	*106*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*

Client Sample ID: BH20210914-1RAW
Lab Sample ID: 320-78891-28
Date Collected: 09/14/21 12:00
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDoA	*113*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*
13C3 PFHxS	*113*		*50 - 200*	*09/23/21 12:07*	*09/24/21 09:59*	*1*

Client Sample ID: BH20210914-3RAW
Lab Sample ID: 320-78891-30
Date Collected: 09/14/21 12:34
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
9Cl-PF3ONS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorobutanoic acid (PFBA)	**4.6**		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoroheptanoic acid (PFHpA)	ND		3.8		ng/L		09/23/21 12:07	09/24/21 11:03	1
4:2 FTS	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorohexanesulfonic acid (PFHxS)	**3.1**		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorohexanoic acid (PFHxA)	**3.6**		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorooctanesulfonic acid (PFOS)	**5.5**		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluorooctanoic acid (PFOA)	**3.1**		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoropentanoic acid (PFPeA)	**5.4**		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		09/23/21 12:07	09/24/21 11:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*50 - 200*	*09/23/21 12:07*	*09/24/21 11:03*	*1*
13C5 PFPeA	*120*		*50 - 200*	*09/23/21 12:07*	*09/24/21 11:03*	*1*
13C3 PFBS	*142*		*50 - 200*	*09/23/21 12:07*	*09/24/21 11:03*	*1*
M2-4:2 FTS	*200*		*50 - 200*	*09/23/21 12:07*	*09/24/21 11:03*	*1*
13C5 PFHxA	*106*		*50 - 200*	*09/23/21 12:07*	*09/24/21 11:03*	*1*
13C3 HFPO-DA	*119*		*50 - 200*	*09/23/21 12:07*	*09/24/21 11:03*	*1*

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-3RAW
Lab Sample ID: 320-78891-30
Date Collected: 09/14/21 12:34
Matrix: Water
Date Received: 09/14/21 17:35

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	114		50 - 200	09/23/21 12:07	09/24/21 11:03	1
M2-6:2 FTS	169		50 - 200	09/23/21 12:07	09/24/21 11:03	1
13C8 PFOA	108		50 - 200	09/23/21 12:07	09/24/21 11:03	1
13C9 PFNA	105		50 - 200	09/23/21 12:07	09/24/21 11:03	1
13C8 PFOS	119		50 - 200	09/23/21 12:07	09/24/21 11:03	1
M2-8:2 FTS	138		50 - 200	09/23/21 12:07	09/24/21 11:03	1
13C6 PFDA	104		50 - 200	09/23/21 12:07	09/24/21 11:03	1
13C7 PFUnA	110		50 - 200	09/23/21 12:07	09/24/21 11:03	1
13C2 PFDoA	106		50 - 200	09/23/21 12:07	09/24/21 11:03	1
13C3 PFHxS	118		50 - 200	09/23/21 12:07	09/24/21 11:03	1

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	C3PFBS (50-200)	M242FTS (50-200)	13C5PHA (50-200)	HFPODA (50-200)	C4PFHA (50-200)	M262FTS (50-200)
320-78891-1	BH20210914PRE-GAC	96	103	91	162	104	97	98	134
320-78891-2	BH20210914POST-GAC	93	99	97	157	99	88	100	138
320-78891-2 MS	BH20210914POST-GAC	92	98	102	165	105	102	96	125
320-78891-2 MSD	BH20210914POST-GAC	93	96	105	146	105	107	94	120
320-78891-3	BH20210914POST-GAC DUP	90	91	82	152	104	108	96	121
320-78891-4	BH20210914-1N-25	96	105	94	179	101	95	103	154
320-78891-5	BH20210914-1N-50	88	101	89	170	99	89	97	129
320-78891-6	BH20210914-1N-75	94	101	90	173	105	99	104	136
320-78891-7	BH20210914-1MID	99	98	91	159	101	94	89	142
320-78891-8	BH20210914-1S-25	90	101	93	150	103	102	95	141
320-78891-9	BH20210914-1S-50	88	93	90	149	93	82	88	125
320-78891-10	BH20210914-1S-75	94	98	96	155	91	94	96	140
320-78891-11	BH20210914-1POST	95	92	86	146	94	88	92	140
320-78891-12	BH20210914-2N-25	91	101	84	162	98	88	92	131
320-78891-13	BH20210914-2N-50	94	98	89	168	95	95	95	147
320-78891-14	BH20210914-2N-75	99	112	99	147	100	101	99	134
320-78891-15	BH20210914-2MID	93	96	96	170	97	96	93	138
320-78891-16	BH20210914-2S-25	93	93	96	155	96	99	100	136
320-78891-17	BH20210914-2S-50	86	90	117	163	95	116	96	147
320-78891-18	BH20210914-2S-75	89	89	118	166	90	88	83	145
320-78891-19	BH20210914-2POST	89	93	130	154	97	118	99	158
320-78891-20	BH20210914-3N-25	98	112	127	171	97	118	105	152
320-78891-21	BH20210914-3N-50	88	97	130	193	98	115	99	149
320-78891-22	BH20210914-3N-75	95	104	131	180	96	111	93	157
320-78891-23	BH20210914-3MID	93	95	120	168	94	111	91	148
320-78891-24	BH20210914-3S-25	81	88	127	162	94	104	89	139
320-78891-25	BH20210914-3S-50	97	103	128	170	98	118	105	145
320-78891-26	BH20210914-3S-75	81	90	133	172	105	130	100	152
320-78891-27	BH20210914-3POST	92	94	131	168	99	110	93	148
320-78891-28	BH20210914-1RAW	91	100	134	174	99	107	98	164
320-78891-30	BH20210914-3RAW	99	120	142	200	106	119	114	169
LCS 320-527737/2-A	Lab Control Sample	66	73	129	149	79	95	90	124
LCS 320-528084/2-A	Lab Control Sample	98	100	101	144	112	105	102	120
LCSD 320-527737/3-A	Lab Control Sample Dup	46 *5-	52	121	141	55	62	64	121
MB 320-527737/1-A	Method Blank	56	54	115	153	64	75	76	140
MB 320-528084/1-A	Method Blank	90	103	93	135	89	77	82	143

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C8PFOA (50-200)	C9PFNA (50-200)	C8PFOS (50-200)	M282FTS (50-200)	C6PFDA (50-200)	13C7PUA (50-200)	PFDoA (50-200)	C3PFHS (50-200)
320-78891-1	BH20210914PRE-GAC	88	95	100	123	94	93	93	92
320-78891-2	BH20210914POST-GAC	97	99	110	119	94	97	97	104
320-78891-2 MS	BH20210914POST-GAC	94	94	109	123	91	104	96	104
320-78891-2 MSD	BH20210914POST-GAC	95	91	106	123	93	103	100	101
320-78891-3	BH20210914POST-GAC DUP	85	99	97	119	96	103	99	95
320-78891-4	BH20210914-1N-25	96	94	113	126	90	92	98	102
320-78891-5	BH20210914-1N-50	93	96	102	118	95	95	88	99
320-78891-6	BH20210914-1N-75	100	101	104	123	95	102	97	105
320-78891-7	BH20210914-1MID	90	97	100	125	88	91	90	104
320-78891-8	BH20210914-1S-25	91	98	110	121	96	98	96	105

Isotope Dilution Summary

Client: New York State D.E.C. Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	C8PFOA (50-200)	C9PFNA (50-200)	C8PFOS (50-200)	M282FTS (50-200)	C6PFDA (50-200)	13C7PUA (50-200)	PFDoA (50-200)	C3PFHS (50-200)
320-78891-9	BH20210914-1S-50	89	94	99	118	92	100	84	98
320-78891-10	BH20210914-1S-75	84	94	104	121	90	93	87	104
320-78891-11	BH20210914-1POST	89	90	109	122	94	97	93	102
320-78891-12	BH20210914-2N-25	93	94	87	108	93	91	88	92
320-78891-13	BH20210914-2N-50	89	93	98	114	94	100	89	100
320-78891-14	BH20210914-2N-75	96	109	95	118	101	99	97	97
320-78891-15	BH20210914-2MID	91	99	98	120	93	94	93	100
320-78891-16	BH20210914-2S-25	90	103	98	120	98	94	96	102
320-78891-17	BH20210914-2S-50	85	93	104	118	88	97	93	106
320-78891-18	BH20210914-2S-75	73	84	108	132	87	91	102	111
320-78891-19	BH20210914-2POST	83	92	113	137	87	94	96	115
320-78891-20	BH20210914-3N-25	92	95	102	129	93	92	96	110
320-78891-21	BH20210914-3N-50	90	98	111	133	94	94	103	111
320-78891-22	BH20210914-3N-75	90	93	114	132	92	93	100	116
320-78891-23	BH20210914-3MID	84	85	110	124	86	85	97	107
320-78891-24	BH20210914-3S-25	83	93	109	128	89	97	101	112
320-78891-25	BH20210914-3S-50	88	94	115	132	91	98	100	114
320-78891-26	BH20210914-3S-75	84	98	116	134	103	108	114	117
320-78891-27	BH20210914-3POST	78	87	116	132	84	93	101	118
320-78891-28	BH20210914-1RAW	92	96	111	142	97	106	113	113
320-78891-30	BH20210914-3RAW	108	105	119	138	104	110	106	118
LCS 320-527737/2-A	Lab Control Sample	89	100	110	116	96	100	104	116
LCS 320-528084/2-A	Lab Control Sample	113	106	112	133	109	111	107	107
LCSD 320-527737/3-A	Lab Control Sample Dup	67	80	106	116	85	93	101	107
MB 320-527737/1-A	Method Blank	72	80	104	127	84	92	98	107
MB 320-528084/1-A	Method Blank	90	94	107	121	95	101	92	105

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
C3PFBS = 13C3 PFBS
M242FTS = M2-4:2 FTS
13C5PHA = 13C5 PFHxA
HFPODA = 13C3 HFPO-DA
C4PFHA = 13C4 PFHpA
M262FTS = M2-6:2 FTS
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C8PFOS = 13C8 PFOS
M282FTS = M2-8:2 FTS
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoA = 13C2 PFDoA
C3PFHS = 13C3 PFHxS

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MB 320-527737/1-A
Matrix: Water
Analysis Batch: 527927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
9Cl-PF3ONS	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorobutanoic acid (PFBA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoroheptanoic acid (PFHpA)	ND		4.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
4:2 FTS	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		09/23/21 12:07	09/24/21 07:32	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*56*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C5 PFPeA	*54*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C3 PFBS	*115*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
M2-4:2 FTS	*153*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C5 PFHxA	*64*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C3 HFPO-DA	*75*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C4 PFHpA	*76*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
M2-6:2 FTS	*140*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C8 PFOA	*72*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C9 PFNA	*80*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C8 PFOS	*104*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
M2-8:2 FTS	*127*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C6 PFDA	*84*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*
13C7 PFUnA	*92*		*50 - 200*	*09/23/21 12:07*	*09/24/21 07:32*	*1*

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MB 320-527737/1-A
Matrix: Water
Analysis Batch: 527927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 527737

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	98		50 - 200	09/23/21 12:07	09/24/21 07:32	1
13C3 PFHxS	107		50 - 200	09/23/21 12:07	09/24/21 07:32	1

Lab Sample ID: LCS 320-527737/2-A
Matrix: Water
Analysis Batch: 527927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
11Cl-PF3OUdS	132	127		ng/L		97	70 - 130
9Cl-PF3ONS	130	120		ng/L		92	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	132	104		ng/L		79	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	140	106		ng/L		75	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	140	117		ng/L		84	70 - 130
Perfluorobutanoic acid (PFBA)	140	135		ng/L		97	70 - 130
Perfluorobutanesulfonic acid (PFBS)	124	100		ng/L		81	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	134	129		ng/L		96	70 - 130
Perfluorodecanoic acid (PFDA)	140	118		ng/L		84	70 - 130
Perfluorododecanoic acid (PFDoA)	140	118		ng/L		84	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	125	97.9		ng/L		79	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	133	126		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	140	125		ng/L		90	70 - 130
4:2 FTS	131	97.8		ng/L		75	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	127	108		ng/L		85	70 - 130
Perfluorohexanoic acid (PFHxA)	140	123		ng/L		88	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	140	118		ng/L		84	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	140	106		ng/L		75	70 - 130
Perfluorononanoic acid (PFNA)	140	121		ng/L		87	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	133	106		ng/L		80	70 - 130
Perfluorooctanesulfonic acid (PFOS)	130	98.5		ng/L		76	70 - 130
Perfluorooctanoic acid (PFOA)	140	132		ng/L		94	70 - 130
Perfluoropentanoic acid (PFPeA)	140	122		ng/L		87	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	131	117		ng/L		89	70 - 130
Perfluoroundecanoic acid (PFUnA)	140	127		ng/L		91	70 - 130

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	66		50 - 200
13C5 PFPeA	73		50 - 200
13C3 PFBS	129		50 - 200

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LCS 320-527737/2-A
Matrix: Water
Analysis Batch: 527927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527737

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*149*		*50 - 200*
13C5 PFHxA	*79*		*50 - 200*
13C3 HFPO-DA	*95*		*50 - 200*
13C4 PFHpA	*90*		*50 - 200*
M2-6:2 FTS	*124*		*50 - 200*
13C8 PFOA	*89*		*50 - 200*
13C9 PFNA	*100*		*50 - 200*
13C8 PFOS	*110*		*50 - 200*
M2-8:2 FTS	*116*		*50 - 200*
13C6 PFDA	*96*		*50 - 200*
13C7 PFUnA	*100*		*50 - 200*
13C2 PFDoA	*104*		*50 - 200*
13C3 PFHxS	*116*		*50 - 200*

Lab Sample ID: LCSD 320-527737/3-A
Matrix: Water
Analysis Batch: 527927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527737

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
11Cl-PF3OUdS			132	117		ng/L		89	70 - 130	9	30
9Cl-PF3ONS			130	110		ng/L		84	70 - 130	9	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			132	93.0		ng/L		71	70 - 130	11	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)			140	103		ng/L		74	70 - 130	3	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)			140	109		ng/L		78	70 - 130	7	30
Perfluorobutanoic acid (PFBA)			140	129		ng/L		92	70 - 130	5	30
Perfluorobutanesulfonic acid (PFBS)			124	95.5		ng/L		77	70 - 130	5	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)			134	127		ng/L		95	70 - 130	2	30
Perfluorodecanoic acid (PFDA)			140	109		ng/L		78	70 - 130	8	30
Perfluorododecanoic acid (PFDoA)			140	114		ng/L		81	70 - 130	4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)			125	96.3		ng/L		77	70 - 130	2	30
Perfluoroheptanesulfonic Acid (PFHpS)			133	116		ng/L		87	70 - 130	8	30
Perfluoroheptanoic acid (PFHpA)			140	122		ng/L		87	70 - 130	3	30
4:2 FTS			131	102		ng/L		78	70 - 130	5	30
Perfluorohexanesulfonic acid (PFHxS)			127	114		ng/L		89	70 - 130	5	30
Perfluorohexanoic acid (PFHxA)			140	117		ng/L		84	70 - 130	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)			140	118		ng/L		84	70 - 130	0	30
Perfluoro-4-methoxybutanoic acid (PFMBA)			140	106		ng/L		75	70 - 130	0	30
Perfluorononanoic acid (PFNA)			140	119		ng/L		85	70 - 130	2	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)			133	99.8		ng/L		75	70 - 130	6	30

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LCSD 320-527737/3-A
Matrix: Water
Analysis Batch: 527927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527737

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)			130	95.9		ng/L		74	70 - 130	3	30
Perfluorooctanoic acid (PFOA)			140	135		ng/L		96	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)			140	117		ng/L		83	70 - 130	4	30
Perfluoropentanesulfonic acid (PFPeS)			131	113		ng/L		86	70 - 130	3	30
Perfluoroundecanoic acid (PFUnA)			140	119		ng/L		85	70 - 130	7	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*46*	**5-*	*50 - 200*
13C5 PFPeA	*52*		*50 - 200*
13C3 PFBS	*121*		*50 - 200*
M2-4:2 FTS	*141*		*50 - 200*
13C5 PFHxA	*55*		*50 - 200*
13C3 HFPO-DA	*62*		*50 - 200*
13C4 PFHpA	*64*		*50 - 200*
M2-6:2 FTS	*121*		*50 - 200*
13C8 PFOA	*67*		*50 - 200*
13C9 PFNA	*80*		*50 - 200*
13C8 PFOS	*106*		*50 - 200*
M2-8:2 FTS	*116*		*50 - 200*
13C6 PFDA	*85*		*50 - 200*
13C7 PFUnA	*93*		*50 - 200*
13C2 PFDoA	*101*		*50 - 200*
13C3 PFHxS	*107*		*50 - 200*

Lab Sample ID: MB 320-528084/1-A
Matrix: Water
Analysis Batch: 528434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
9Cl-PF3ONS	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorobutanoic acid (PFBA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoroheptanoic acid (PFHpA)	ND		4.0		ng/L		09/24/21 11:32	09/25/21 10:03	1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MB 320-528084/1-A
Matrix: Water
Analysis Batch: 528434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528084

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 FTS	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		09/24/21 11:32	09/25/21 10:03	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C5 PFPeA	*103*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C3 PFBS	*93*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
M2-4:2 FTS	*135*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C5 PFHxA	*89*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C3 HFPO-DA	*77*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C4 PFHpA	*82*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
M2-6:2 FTS	*143*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C8 PFOA	*90*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C9 PFNA	*94*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C8 PFOS	*107*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
M2-8:2 FTS	*121*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C6 PFDA	*95*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C7 PFUnA	*101*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C2 PFDoA	*92*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*
13C3 PFHxS	*105*		*50 - 200*	*09/24/21 11:32*	*09/25/21 10:03*	*1*

Lab Sample ID: LCS 320-528084/2-A
Matrix: Water
Analysis Batch: 528434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 528084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
11Cl-PF3OUdS	264	267		ng/L		101	70 - 130
9Cl-PF3ONS	261	262		ng/L		100	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	264	262		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	280	362		ng/L		129	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	280	289		ng/L		103	70 - 130
Perfluorobutanoic acid (PFBA)	280	269		ng/L		96	70 - 130
Perfluorobutanesulfonic acid (PFBS)	248	249		ng/L		101	70 - 130

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: LCS 320-528084/2-A
Matrix: Water
Analysis Batch: 528434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 528084

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	268	302		ng/L		113	70 - 130
Perfluorodecanoic acid (PFDA)	280	279		ng/L		100	70 - 130
Perfluorododecanoic acid (PFDoA)	280	313		ng/L		112	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	249	268		ng/L		108	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	267	253		ng/L		95	70 - 130
Perfluoroheptanoic acid (PFHpA)	280	299		ng/L		107	70 - 130
4:2 FTS	262	255		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	255	258		ng/L		101	70 - 130
Perfluorohexanoic acid (PFHxA)	280	276		ng/L		98	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	280	286		ng/L		102	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	280	246		ng/L		88	70 - 130
Perfluorononanoic acid (PFNA)	280	298		ng/L		106	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	265	269		ng/L		101	70 - 130
Perfluorooctanesulfonic acid (PFOS)	260	211		ng/L		81	70 - 130
Perfluorooctanoic acid (PFOA)	280	272		ng/L		97	70 - 130
Perfluoropentanoic acid (PFPeA)	280	287		ng/L		103	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	263	259		ng/L		99	70 - 130
Perfluoroundecanoic acid (PFUnA)	280	296		ng/L		106	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*98*		*50 - 200*
13C5 PFPeA	*100*		*50 - 200*
13C3 PFBS	*101*		*50 - 200*
M2-4:2 FTS	*144*		*50 - 200*
13C5 PFHxA	*112*		*50 - 200*
13C3 HFPO-DA	*105*		*50 - 200*
13C4 PFHpA	*102*		*50 - 200*
M2-6:2 FTS	*120*		*50 - 200*
13C8 PFOA	*113*		*50 - 200*
13C9 PFNA	*106*		*50 - 200*
13C8 PFOS	*112*		*50 - 200*
M2-8:2 FTS	*133*		*50 - 200*
13C6 PFDA	*109*		*50 - 200*
13C7 PFUnA	*111*		*50 - 200*
13C2 PFDoA	*107*		*50 - 200*
13C3 PFHxS	*107*		*50 - 200*

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 320-78891-2 MS
Matrix: Water
Analysis Batch: 528434

Client Sample ID: BH20210914POST-GAC
Prep Type: Total/NA
Prep Batch: 528084

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
11Cl-PF3OUdS	ND		236	235		ng/L		100	70 - 130
9Cl-PF3ONS	ND		233	226		ng/L		97	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		236	224		ng/L		95	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		250	274		ng/L		109	70 - 130
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		250	255		ng/L		102	70 - 130
Perfluorobutanoic acid (PFBA)	5.6		250	266		ng/L		104	70 - 130
Perfluorobutanesulfonic acid (PFBS)	ND		221	218		ng/L		99	70 - 130
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		240	275		ng/L		115	70 - 130
Perfluorodecanoic acid (PFDA)	ND		250	248		ng/L		99	70 - 130
Perfluorododecanoic acid (PFDoA)	ND		250	275		ng/L		110	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		223	232		ng/L		104	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	ND		238	224		ng/L		94	70 - 130
Perfluoroheptanoic acid (PFHpA)	ND		250	267		ng/L		107	70 - 130
4:2 FTS	ND		234	211		ng/L		90	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	ND		228	231		ng/L		102	70 - 130
Perfluorohexanoic acid (PFHxA)	ND		250	248		ng/L		99	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		250	263		ng/L		105	70 - 130
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		250	202		ng/L		81	70 - 130
Perfluorononanoic acid (PFNA)	ND		250	260		ng/L		104	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		237	246		ng/L		104	70 - 130
Perfluorooctanesulfonic acid (PFOS)	ND		232	192		ng/L		83	70 - 130
Perfluorooctanoic acid (PFOA)	ND		250	266		ng/L		106	70 - 130
Perfluoropentanoic acid (PFPeA)	3.6		250	237		ng/L		93	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	ND		235	231		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	ND		250	261		ng/L		104	70 - 130

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*92*		*50 - 200*
13C5 PFPeA	*98*		*50 - 200*
13C3 PFBS	*102*		*50 - 200*
M2-4:2 FTS	*165*		*50 - 200*
13C5 PFHxA	*105*		*50 - 200*
13C3 HFPO-DA	*102*		*50 - 200*
13C4 PFHpA	*96*		*50 - 200*
M2-6:2 FTS	*125*		*50 - 200*
13C8 PFOA	*94*		*50 - 200*
13C9 PFNA	*94*		*50 - 200*

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 320-78891-2 MS
Matrix: Water
Analysis Batch: 528434

Client Sample ID: BH20210914POST-GAC
Prep Type: Total/NA
Prep Batch: 528084

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 PFOS	*109*		*50 - 200*
M2-8:2 FTS	*123*		*50 - 200*
13C6 PFDA	*91*		*50 - 200*
13C7 PFUnA	*104*		*50 - 200*
13C2 PFDoA	*96*		*50 - 200*
13C3 PFHxS	*104*		*50 - 200*

Lab Sample ID: 320-78891-2 MSD
Matrix: Water
Analysis Batch: 528434

Client Sample ID: BH20210914POST-GAC
Prep Type: Total/NA
Prep Batch: 528084

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
11Cl-PF3OUdS	ND		237	242		ng/L		102	70 - 130	3	30
9Cl-PF3ONS	ND		234	219		ng/L		94	70 - 130	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		237	222		ng/L		94	70 - 130	1	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		251	238		ng/L		95	70 - 130	14	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		251	262		ng/L		104	70 - 130	3	30
Perfluorobutanoic acid (PFBA)	5.6		251	247		ng/L		96	70 - 130	7	30
Perfluorobutanesulfonic acid (PFBS)	ND		222	202		ng/L		91	70 - 130	8	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		241	264		ng/L		110	70 - 130	4	30
Perfluorodecanoic acid (PFDA)	ND		251	239		ng/L		95	70 - 130	4	30
Perfluorododecanoic acid (PFDoA)	ND		251	261		ng/L		104	70 - 130	5	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		224	211		ng/L		94	70 - 130	10	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		239	226		ng/L		95	70 - 130	1	30
Perfluoroheptanoic acid (PFHpA)	ND		251	276		ng/L		110	70 - 130	3	30
4:2 FTS	ND		235	210		ng/L		89	70 - 130	1	30
Perfluorohexanesulfonic acid (PFHxS)	ND		229	223		ng/L		98	70 - 130	3	30
Perfluorohexanoic acid (PFHxA)	ND		251	240		ng/L		95	70 - 130	3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		251	260		ng/L		103	70 - 130	1	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		251	213		ng/L		85	70 - 130	6	30
Perfluorononanoic acid (PFNA)	ND		251	266		ng/L		106	70 - 130	2	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		238	232		ng/L		98	70 - 130	6	30
Perfluorooctanesulfonic acid (PFOS)	ND		233	186		ng/L		80	70 - 130	3	30
Perfluorooctanoic acid (PFOA)	ND		251	246		ng/L		98	70 - 130	7	30
Perfluoropentanoic acid (PFPeA)	3.6		251	249		ng/L		98	70 - 130	5	30
Perfluoropentanesulfonic acid (PFPeS)	ND		236	231		ng/L		98	70 - 130	0	30
Perfluoroundecanoic acid (PFUnA)	ND		251	261		ng/L		104	70 - 130	0	30

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	93		50 - 200
13C5 PFPeA	96		50 - 200
13C3 PFBS	105		50 - 200
M2-4:2 FTS	146		50 - 200
13C5 PFHxA	105		50 - 200
13C3 HFPO-DA	107		50 - 200
13C4 PFHpA	94		50 - 200
M2-6:2 FTS	120		50 - 200
13C8 PFOA	95		50 - 200
13C9 PFNA	91		50 - 200
13C8 PFOS	106		50 - 200
M2-8:2 FTS	123		50 - 200
13C6 PFDA	93		50 - 200
13C7 PFUnA	103		50 - 200
13C2 PFDoA	100		50 - 200
13C3 PFHxS	101		50 - 200

LCMS

Prep Batch: 527737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78891-17	BH20210914-2S-50	Total/NA	Water	533	
320-78891-18	BH20210914-2S-75	Total/NA	Water	533	
320-78891-19	BH20210914-2POST	Total/NA	Water	533	
320-78891-20	BH20210914-3N-25	Total/NA	Water	533	
320-78891-21	BH20210914-3N-50	Total/NA	Water	533	
320-78891-22	BH20210914-3N-75	Total/NA	Water	533	
320-78891-23	BH20210914-3MID	Total/NA	Water	533	
320-78891-24	BH20210914-3S-25	Total/NA	Water	533	
320-78891-25	BH20210914-3S-50	Total/NA	Water	533	
320-78891-26	BH20210914-3S-75	Total/NA	Water	533	
320-78891-27	BH20210914-3POST	Total/NA	Water	533	
320-78891-28	BH20210914-1RAW	Total/NA	Water	533	
320-78891-30	BH20210914-3RAW	Total/NA	Water	533	
MB 320-527737/1-A	Method Blank	Total/NA	Water	533	
LCS 320-527737/2-A	Lab Control Sample	Total/NA	Water	533	
LCSD 320-527737/3-A	Lab Control Sample Dup	Total/NA	Water	533	

Analysis Batch: 527927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78891-17	BH20210914-2S-50	Total/NA	Water	533	527737
320-78891-18	BH20210914-2S-75	Total/NA	Water	533	527737
320-78891-19	BH20210914-2POST	Total/NA	Water	533	527737
320-78891-20	BH20210914-3N-25	Total/NA	Water	533	527737
320-78891-21	BH20210914-3N-50	Total/NA	Water	533	527737
320-78891-22	BH20210914-3N-75	Total/NA	Water	533	527737
320-78891-23	BH20210914-3MID	Total/NA	Water	533	527737
320-78891-24	BH20210914-3S-25	Total/NA	Water	533	527737
320-78891-25	BH20210914-3S-50	Total/NA	Water	533	527737
320-78891-26	BH20210914-3S-75	Total/NA	Water	533	527737
320-78891-27	BH20210914-3POST	Total/NA	Water	533	527737
320-78891-28	BH20210914-1RAW	Total/NA	Water	533	527737
320-78891-30	BH20210914-3RAW	Total/NA	Water	533	527737
MB 320-527737/1-A	Method Blank	Total/NA	Water	533	527737
LCS 320-527737/2-A	Lab Control Sample	Total/NA	Water	533	527737
LCSD 320-527737/3-A	Lab Control Sample Dup	Total/NA	Water	533	527737

Prep Batch: 528084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78891-1	BH20210914PRE-GAC	Total/NA	Water	533	
320-78891-2	BH20210914POST-GAC	Total/NA	Water	533	
320-78891-3	BH20210914POST-GAC DUP	Total/NA	Water	533	
320-78891-4	BH20210914-1N-25	Total/NA	Water	533	
320-78891-5	BH20210914-1N-50	Total/NA	Water	533	
320-78891-6	BH20210914-1N-75	Total/NA	Water	533	
320-78891-7	BH20210914-1MID	Total/NA	Water	533	
320-78891-8	BH20210914-1S-25	Total/NA	Water	533	
320-78891-9	BH20210914-1S-50	Total/NA	Water	533	
320-78891-10	BH20210914-1S-75	Total/NA	Water	533	
320-78891-11	BH20210914-1POST	Total/NA	Water	533	
320-78891-12	BH20210914-2N-25	Total/NA	Water	533	
320-78891-13	BH20210914-2N-50	Total/NA	Water	533	

LCMS (Continued)

Prep Batch: 528084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78891-14	BH20210914-2N-75	Total/NA	Water	533	
320-78891-15	BH20210914-2MID	Total/NA	Water	533	
320-78891-16	BH20210914-2S-25	Total/NA	Water	533	
MB 320-528084/1-A	Method Blank	Total/NA	Water	533	
LCS 320-528084/2-A	Lab Control Sample	Total/NA	Water	533	
320-78891-2 MS	BH20210914POST-GAC	Total/NA	Water	533	
320-78891-2 MSD	BH20210914POST-GAC	Total/NA	Water	533	

Analysis Batch: 528434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-78891-1	BH20210914PRE-GAC	Total/NA	Water	533	528084
320-78891-2	BH20210914POST-GAC	Total/NA	Water	533	528084
320-78891-3	BH20210914POST-GAC DUP	Total/NA	Water	533	528084
320-78891-4	BH20210914-1N-25	Total/NA	Water	533	528084
320-78891-5	BH20210914-1N-50	Total/NA	Water	533	528084
320-78891-6	BH20210914-1N-75	Total/NA	Water	533	528084
320-78891-7	BH20210914-1MID	Total/NA	Water	533	528084
320-78891-8	BH20210914-1S-25	Total/NA	Water	533	528084
320-78891-9	BH20210914-1S-50	Total/NA	Water	533	528084
320-78891-10	BH20210914-1S-75	Total/NA	Water	533	528084
320-78891-11	BH20210914-1POST	Total/NA	Water	533	528084
320-78891-12	BH20210914-2N-25	Total/NA	Water	533	528084
320-78891-13	BH20210914-2N-50	Total/NA	Water	533	528084
320-78891-14	BH20210914-2N-75	Total/NA	Water	533	528084
320-78891-15	BH20210914-2MID	Total/NA	Water	533	528084
320-78891-16	BH20210914-2S-25	Total/NA	Water	533	528084
MB 320-528084/1-A	Method Blank	Total/NA	Water	533	528084
LCS 320-528084/2-A	Lab Control Sample	Total/NA	Water	533	528084
320-78891-2 MS	BH20210914POST-GAC	Total/NA	Water	533	528084
320-78891-2 MSD	BH20210914POST-GAC	Total/NA	Water	533	528084

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914PRE-GAC
Lab Sample ID: 320-78891-1
Date Collected: 09/14/21 10:40
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			283.6 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 10:12	D1R	TAL SAC

Client Sample ID: BH20210914POST-GAC
Lab Sample ID: 320-78891-2
Date Collected: 09/14/21 10:42
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			284.2 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 10:58	D1R	TAL SAC

Client Sample ID: BH20210914POST-GAC DUP
Lab Sample ID: 320-78891-3
Date Collected: 09/14/21 10:44
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			287.4 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 10:21	D1R	TAL SAC

Client Sample ID: BH20210914-1N-25
Lab Sample ID: 320-78891-4
Date Collected: 09/14/21 11:32
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			288.1 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 10:30	D1R	TAL SAC

Client Sample ID: BH20210914-1N-50
Lab Sample ID: 320-78891-5
Date Collected: 09/14/21 11:33
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			274.4 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 10:39	D1R	TAL SAC

Client Sample ID: BH20210914-1N-75
Lab Sample ID: 320-78891-6
Date Collected: 09/14/21 11:34
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			296 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 10:48	D1R	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-1MID
Lab Sample ID: 320-78891-7
Date Collected: 09/14/21 11:35
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			282.5 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 11:52	D1R	TAL SAC

Client Sample ID: BH20210914-1S-25
Lab Sample ID: 320-78891-8
Date Collected: 09/14/21 11:37
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			285.1 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 12:02	D1R	TAL SAC

Client Sample ID: BH20210914-1S-50
Lab Sample ID: 320-78891-9
Date Collected: 09/14/21 11:38
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			297.2 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 12:11	D1R	TAL SAC

Client Sample ID: BH20210914-1S-75
Lab Sample ID: 320-78891-10
Date Collected: 09/14/21 11:40
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			287.7 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 12:20	D1R	TAL SAC

Client Sample ID: BH20210914-1POST
Lab Sample ID: 320-78891-11
Date Collected: 09/14/21 11:41
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			287.9 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 12:29	D1R	TAL SAC

Client Sample ID: BH20210914-2N-25
Lab Sample ID: 320-78891-12
Date Collected: 09/14/21 11:17
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			284.7 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 12:38	D1R	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Client Sample ID: BH20210914-2N-50
Lab Sample ID: 320-78891-13
Date Collected: 09/14/21 11:18
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			284.3 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 12:47	D1R	TAL SAC

Client Sample ID: BH20210914-2N-75
Lab Sample ID: 320-78891-14
Date Collected: 09/14/21 11:21
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			288.2 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 12:56	D1R	TAL SAC

Client Sample ID: BH20210914-2MID
Lab Sample ID: 320-78891-15
Date Collected: 09/14/21 11:23
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			289.8 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 13:06	D1R	TAL SAC

Client Sample ID: BH20210914-2S-25
Lab Sample ID: 320-78891-16
Date Collected: 09/14/21 11:24
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			280.6 mL	1.0 mL	528084	09/24/21 11:32	AP	TAL SAC
Total/NA	Analysis	533		1			528434	09/25/21 13:15	D1R	TAL SAC

Client Sample ID: BH20210914-2S-50
Lab Sample ID: 320-78891-17
Date Collected: 09/14/21 11:25
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			261.9 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 07:41	AF	TAL SAC

Client Sample ID: BH20210914-2S-75
Lab Sample ID: 320-78891-18
Date Collected: 09/14/21 11:27
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			257.8 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 07:51	AF	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-2POST
Lab Sample ID: 320-78891-19
Date Collected: 09/14/21 11:29
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			266.4 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 08:00	AF	TAL SAC

Client Sample ID: BH20210914-3N-25
Lab Sample ID: 320-78891-20
Date Collected: 09/14/21 10:59
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			259.2 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 08:09	AF	TAL SAC

Client Sample ID: BH20210914-3N-50
Lab Sample ID: 320-78891-21
Date Collected: 09/14/21 11:00
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			261.2 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 08:18	AF	TAL SAC

Client Sample ID: BH20210914-3N-75
Lab Sample ID: 320-78891-22
Date Collected: 09/14/21 11:01
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			267.9 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 08:27	AF	TAL SAC

Client Sample ID: BH20210914-3MID
Lab Sample ID: 320-78891-23
Date Collected: 09/14/21 11:04
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			257.1 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 08:36	AF	TAL SAC

Client Sample ID: BH20210914-3S-25
Lab Sample ID: 320-78891-24
Date Collected: 09/14/21 11:07
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			266.3 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 09:22	AF	TAL SAC

Lab Chronicle

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Client Sample ID: BH20210914-3S-50
Lab Sample ID: 320-78891-25
Date Collected: 09/14/21 11:09
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			263.5 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 09:31	AF	TAL SAC

Client Sample ID: BH20210914-3S-75
Lab Sample ID: 320-78891-26
Date Collected: 09/14/21 11:10
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			259.8 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 09:41	AF	TAL SAC

Client Sample ID: BH20210914-3POST
Lab Sample ID: 320-78891-27
Date Collected: 09/14/21 11:13
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			264.5 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 09:50	AF	TAL SAC

Client Sample ID: BH20210914-1RAW
Lab Sample ID: 320-78891-28
Date Collected: 09/14/21 12:00
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			258.3 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 09:59	AF	TAL SAC

Client Sample ID: BH20210914-3RAW
Lab Sample ID: 320-78891-30
Date Collected: 09/14/21 12:34
Matrix: Water
Date Received: 09/14/21 17:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	533			260.7 mL	1.0 mL	527737	09/23/21 12:07	EH	TAL SAC
Total/NA	Analysis	533		1			527927	09/24/21 11:03	AF	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 320-78891-1
Project/Site: Stewart ANGB - Butterhill #336089

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11666	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
533	533	Water	11Cl-PF3OUdS
533	533	Water	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
533	533	Water	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
533	533	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
533	533	Water	4:2 FTS
533	533	Water	9Cl-PF3ONS
533	533	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
533	533	Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
533	533	Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)
533	533	Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
533	533	Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
533	533	Water	Perfluorobutanesulfonic acid (PFBS)
533	533	Water	Perfluorobutanoic acid (PFBA)
533	533	Water	Perfluorodecanoic acid (PFDA)
533	533	Water	Perfluorododecanoic acid (PFDoA)
533	533	Water	Perfluoroheptanesulfonic Acid (PFHpS)
533	533	Water	Perfluoroheptanoic acid (PFHpA)
533	533	Water	Perfluorohexanesulfonic acid (PFHxS)
533	533	Water	Perfluorohexanoic acid (PFHxA)
533	533	Water	Perfluorononanoic acid (PFNA)
533	533	Water	Perfluoropentanesulfonic acid (PFPeS)
533	533	Water	Perfluoropentanoic acid (PFPeA)
533	533	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	TAL SAC
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-78891-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-78891-1	BH20210914PRE-GAC	Water	09/14/21 10:40	09/14/21 17:35
320-78891-2	BH20210914POST-GAC	Water	09/14/21 10:42	09/14/21 17:35
320-78891-3	BH20210914POST-GAC DUP	Water	09/14/21 10:44	09/14/21 17:35
320-78891-4	BH20210914-1N-25	Water	09/14/21 11:32	09/14/21 17:35
320-78891-5	BH20210914-1N-50	Water	09/14/21 11:33	09/14/21 17:35
320-78891-6	BH20210914-1N-75	Water	09/14/21 11:34	09/14/21 17:35
320-78891-7	BH20210914-1MID	Water	09/14/21 11:35	09/14/21 17:35
320-78891-8	BH20210914-1S-25	Water	09/14/21 11:37	09/14/21 17:35
320-78891-9	BH20210914-1S-50	Water	09/14/21 11:38	09/14/21 17:35
320-78891-10	BH20210914-1S-75	Water	09/14/21 11:40	09/14/21 17:35
320-78891-11	BH20210914-1POST	Water	09/14/21 11:41	09/14/21 17:35
320-78891-12	BH20210914-2N-25	Water	09/14/21 11:17	09/14/21 17:35
320-78891-13	BH20210914-2N-50	Water	09/14/21 11:18	09/14/21 17:35
320-78891-14	BH20210914-2N-75	Water	09/14/21 11:21	09/14/21 17:35
320-78891-15	BH20210914-2MID	Water	09/14/21 11:23	09/14/21 17:35
320-78891-16	BH20210914-2S-25	Water	09/14/21 11:24	09/14/21 17:35
320-78891-17	BH20210914-2S-50	Water	09/14/21 11:25	09/14/21 17:35
320-78891-18	BH20210914-2S-75	Water	09/14/21 11:27	09/14/21 17:35
320-78891-19	BH20210914-2POST	Water	09/14/21 11:29	09/14/21 17:35
320-78891-20	BH20210914-3N-25	Water	09/14/21 10:59	09/14/21 17:35
320-78891-21	BH20210914-3N-50	Water	09/14/21 11:00	09/14/21 17:35
320-78891-22	BH20210914-3N-75	Water	09/14/21 11:01	09/14/21 17:35
320-78891-23	BH20210914-3MID	Water	09/14/21 11:04	09/14/21 17:35
320-78891-24	BH20210914-3S-25	Water	09/14/21 11:07	09/14/21 17:35
320-78891-25	BH20210914-3S-50	Water	09/14/21 11:09	09/14/21 17:35
320-78891-26	BH20210914-3S-75	Water	09/14/21 11:10	09/14/21 17:35
320-78891-27	BH20210914-3POST	Water	09/14/21 11:13	09/14/21 17:35
320-78891-28	BH20210914-1RAW	Water	09/14/21 12:00	09/14/21 17:35
320-78891-30	BH20210914-3RAW	Water	09/14/21 12:34	09/14/21 17:35

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

Albany #224

eurofins Environment Testing America

Client Information	Sampler: Casey Radomski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-165126-36223.1
Client Contact: Dana Bryant	Phone: 716-504-7472	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 4
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone: 518-402-9813(Tel)	PO #: Callout ID: 137349			
Email: dana.bryant@arcadis.com	WO #:			
Project Name: Stewart ANGB - Butterhill #336089 - 533	Project #: 48020960			
Site:	SSOW#:			

320-78891 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	533 - Method 533 Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH20210914PRE-GAC	9/14/21	10:40	G	Water	N	N	2	2	
BH20210914POST-GAC		10:42	G	Water	N	N	2	2	
BH20210914POST-GACDUP		10:44	G	Water	N	N	2	2	
BH20210914POST-GAC-MS		10:45	G	Water	N	Y	2	2	
BH20210914POST-GAC-MSD		10:47	G	Water	N	Y	2	2	
BH20210914-1N-25		11:32	G	Water	N	N	2	2	
BH20210914-1N-50		11:33	G	Water	N	N	2	2	
BH20210914-1N-75		11:34	G	Water	N	N	2	2	
BH20210914-1MID		11:35	G	Water	N	N	2	2	
BH20210914-1S-25		11:37	G	Water	N	N	2	2	
BH20210914-1S-50		11:38	G	Water	N	N	2	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Casey Radomski	9/14/21 15:16	Arcadis	Tim Kubler	9-14-21 1516	FEDEX
2	Tim Kubler	9-14-2021 1700	FEDEX		9-15-21 09:45	ETASAI
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 1632465, 1632466

Cooler Temperature(s) °C and Other Remarks: 0.8, 1.0

• No time so 9/15/21

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10/5/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

Albany #224

eurofins | Environment Testing America

Client Information	Sampler: Casey Radomski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-165126-36223.2
Client Contact: Dana Bryant	Phone: 716-504-7472	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 2 of 4
Company: ARCADIS U.S., Inc.	PWSID:	Analysis Requested		Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone: 518-402-9813(Tel)	PO #: Callout ID: 137349			Other:
Email: dana.bryant@arcadis.com	WO #:			
Project Name: Stewart ANGB - Butterhill #336089 - 533	Project #: 48020960			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	533 - Method 533 Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH20210914-1S-75	9/14/21	11:40	G	Water	N	N	2	2	
BH20210914-1POST		11:41	G	Water	N	N	2	2	
BH20210914-2N-25		11:17	G	Water	N	N	2	2	
BH20210914-2N-50		11:18	G	Water	N	N	2	2	
BH20210914-2N-75		11:21	G	Water	N	N	2	2	
BH20210914-2MID		11:23	G	Water	N	N	2	2	
BH20210914-2S-25		11:24	G	Water	N	N	2	2	
BH20210914-2S-50		11:25	G	Water	N	N	2	2	
BH20210914-2S-75		11:27	G	Water	N	N	2	2	
BH20210914-2POST		11:29	G	Water	N	N	2	2	
BH20210914-3N-25		10:59	G	Water	N	N	2	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Casey Radomski	9/14/21 15:16	Arcadis	[signature]	9-14-21 1516	EEA
2	[signature]	9-14-2021 1700	EEA	[signature]	9-15-21 09:45	EHASAC
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 1632465, 1632466

Cooler Temperature(s) °C and Other Remarks: 0.8, 1.0

Ver: 06/08/2021

* 10f2 no time & 9/14/21

10/5/2021

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

Albany #224

eurofins Environment Testing America

Client Information	Sampler: Casey Radomski	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-165126-36223 3
Client Contact: Dana Bryant	Phone: 716-504-7472	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: ARCADIS U.S., Inc.	PWSID:			Job #:
Address: 855 Route 146 Suite 210	Due Date Requested:			
City: Clifton Park	TAT Requested (days): Standard			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone: 518-402-9813(Tel)	PO #: Callout ID: 137349			
Email: dana.bryant@arcadis.com	WO #:			
Project Name: Stewart ANGB - Butterhill #336089 - 533	Project #: 48020960			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	533 - Method 533 Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BH20210914-3N-50	9/14/21	11:00	G	Water	N	N	2	2	
BH20210914-3N-75		11:01	G	Water	N	N	2	2	
BH20210914-3MID		11:04	G	Water	N	N	2	2	
BH20210914-3S-25		11:07	G	Water	N	N	2	2	
BH20210914-3S-50		11:09	G	Water	N	N	2	2	
BH20210914-3S-75		11:10	G	Water	N	N	2	2	
BH20210914-3POST		11:13	G	Water	N	N	2	2	
BH20210914-1RAW		12:00	G	Water	N	N	2	2	
BH20210914-2RAW		N/A	G	Water	N	N	2	2	
BH20210914-3RAW		12:34	G	Water	N	N	2	2	
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Casey Radomski	9/14/21 15:16	Arcadis	[signature]	9-14-21 1516	EEA
2	[signature]	9-14-2021 1700	EEA	[signature]	9-15-21 09:45	ETASAC
3						

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 1632465, 1632466

Cooler Temperature(s) °C and Other Remarks: 0.8, 1.0

DNOT Filled (Empty) JD 9/15/21

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10/5/2021

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 320-78891-1

Login Number: 78891 **List Source: Eurofins TestAmerica, Sacramento**
List Number: 1
Creator: Nelson, Kym D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	1632465, 1632466
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	Refer to job narrative for details
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	