

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## Division of Environmental Remediation

625 Broadway, 12th Floor, Albany, New York 12233-7011  
P: (518) 402-9706 | F: (518) 402-9020  
[www.dec.ny.gov](http://www.dec.ny.gov)

April 7, 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 **March 17, 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 21 locations.

- pre-treatment (raw untreated water), which has a "BH20210317PRE-GAC" identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 1), which has a "BH20210317-1North-25" identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 1), which has a "BH20210317-1North-50" identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 1), which has a "BH20210317-1North-75" identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 2), which has a "BH20210317-2North-25" identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 2), which has a "BH20210317-2North-50" identifier in the Client Sample ID;



Department of  
Environmental  
Conservation



- 75 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20210317-2North-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20210317-3North-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20210317-3North-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20210317-3North-75” identifier in the Client Sample ID;
- Butterhill Well No.3 raw untreated water; which has a “BH20210317-3RAW” identifier in the Client Sample ID;
- Post-treatment (treated water after all GAC trains), which has a “BH20210317POST-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 “BH20210317-1 MID” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 1), which has a “BH20210317-1 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 “BH20210317-2 MID” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 2), which has a “BH20210317-2 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 “BH20210317-3 MID” identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 3), which has a “BH20210317-3 POST” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20210317-1S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20210317-1S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 1), which has a “BH20210317-1S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20210317-2S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20210317-2S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 2), which has a “BH20210317-2S-75” identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20210317-3S-25” identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20210317-3S-50” identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 3), which has a “BH20210317-3S-75” identifier in the Client Sample ID;

The 27 locations sampled (and their associated identifiers) are depicted in Figure 1. Please also note the following:

1. Two Pre-GAC (after filtration) samples were collected (one analyzed using certified method WS-LC-0025 Att1and other analyzed by method 537 (modified). Only results using method WS-LC0025 Att 1 reported in the attached table.
2. Two Post-GAC samples were collected (one analyzed using certified method WS-LC-0025 Att 1 and other analyzed by method 537 (modified). Only results using method WS-LC0025 Att 1 reported in the attached table.

Please note that, with New York State Department of Health concurrence, GAC treatment system sample frequency moving forward has become quarterly. Therefore, the next sampling event will be scheduled around June 2021.

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](mailto: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](mailto:steven.gladding@health.ny.gov) .

Sincerely,



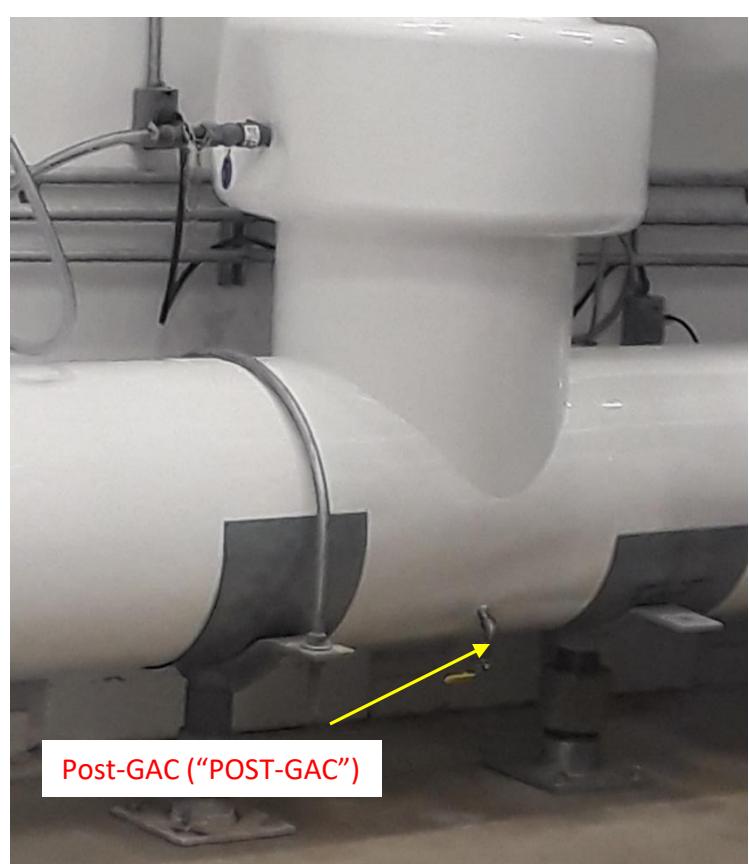
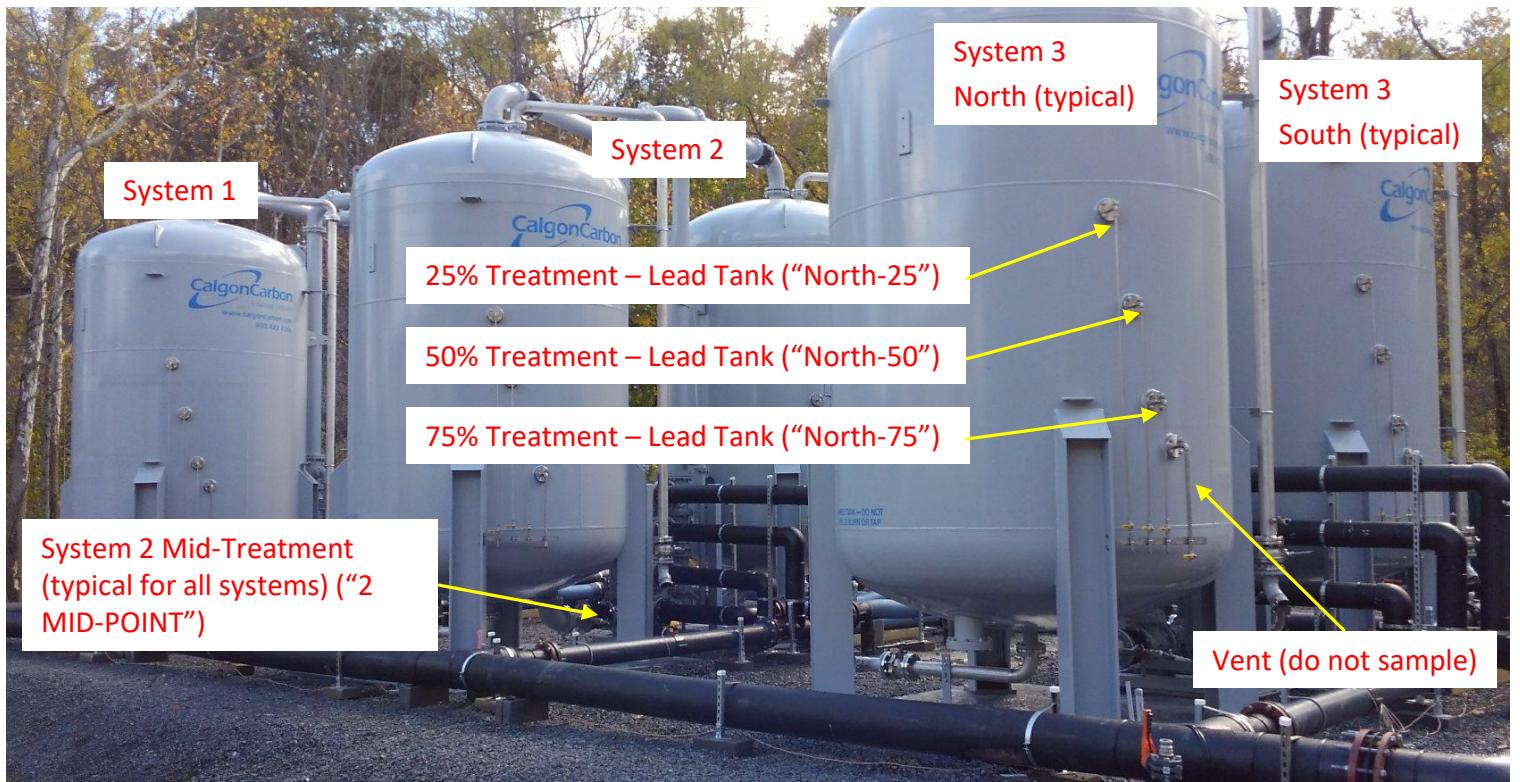
David J. Chiusano  
Environmental Engineer/Project Manager  
Remedial Section A, Remedial Bureau E  
Division of Environmental Remediation

Enclosures

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

**Figure 1**  
**Sampling Locations**

Butterhill Plant Temporary GAC Treatment System



- 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.

**Town of New Windsor**

**Butterhill Wellfield Temporary GAC Operation and Maintenance PFOA and PFOS Sampling Results \* (Parts Per Trillion (PPT))<sup>1</sup>**

Date	Analyte	Well 1 Raw Water	Well 2 Raw Water	Well 3 Raw Water	Pre GAC Raw Water (Combined)	GAC Pair 1 Lead 25%(North)	GAC Pair 1 Lead 50%(North)	GAC Pair 1 Lead 75%(North)	GAC Pair 2 Lead 25% (North)	GAC Pair 2 Lead 50%(North)	GAC Pair 2 Lead 75%(North)	GAC Pair 3 Lead 25%(North)	GAC Pair 3 Lead 50%(North)	GAC Pair 3 Lead 75%(North)	Post GAC Treated Effluent	NYS MCLs <sup>4</sup>
December 2019 (Well 3)	PFOA	2.6	3.5	5.0	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
	PFOS	3.7	2.4	8.9	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
January 2020 (Well 2)	PFOA	2.4	3.5	3.9	3.3	ND	ND	ND	2.2	ND	ND	1.8	ND	ND	ND	10 <sup>4</sup>
	PFOS	3.3	2.4	7.7	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
February 2020 (Well 2)	PFOA	3.1	3.9	3.6	3.3	ND	ND	ND	2.7	ND	ND	2.3	ND	ND	ND	10 <sup>4</sup>
	PFOS	3.6	2.7	6.0	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
March 2020 (Well 1)	PFOA	2.5	2.9	2.9	2.5	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
	PFOS	3.6	2.8	5.4	3.3	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
April 2020 (Well 1)	PFOA	3.0	3.1	2.8	2.8	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
	PFOS	3.4	2.2	4.5	3.0	ND	ND	ND	2.0	ND	ND	ND	ND	ND	ND	10 <sup>4</sup>
May 2020 (Well 3)	PFOA	3.3	NS	3.7	3.1	2.3	ND	ND	2.7	1.8	ND	2.4	ND	ND	ND	10 <sup>4</sup>
	PFOS	3.8	NS	5.9	5.0	2.9	ND	ND	3.5	1.9	ND	3.0	ND	ND	ND	10 <sup>4</sup>
August 2020 (Well 3)	PFOA	2.5	2.7	4.3	4.4	4.1	2.8	ND	3.9	3.1	1.8	4.1	2.6	ND	ND	10 <sup>4</sup>
	PFOS	3.2	2.2	8.1	8.5	6.1	3.0	ND	6.2	3.5	ND	6.6	2.7	ND	ND	10 <sup>4</sup>
December 2020 (Well 3**)	PFOA	NS <sup>4</sup>	3.2	4.5	4.4	ND <sup>2</sup>	ND	ND	1.8	ND	ND	2.0	ND	ND	ND	10 <sup>4</sup>
	PFOS	NS <sup>4</sup>	2.5	8.5	7.5	ND <sup>2</sup>	ND	ND	1.8	ND	ND	2.1	ND	ND	ND	10 <sup>4</sup>
March 2021 (Well 3)	PFOA	NS <sup>4</sup>	NS <sup>4</sup>	2.9	3.1	5.6	ND	ND	3.6	2.1	ND	2.5	ND	ND	ND	10 <sup>4</sup>
	PFOS	NS <sup>4</sup>	NS <sup>4</sup>	5.3	5.0	12.0	ND	ND	6.6	2.2	ND	4.3	2.1	ND	ND	10 <sup>4</sup>

Notes:

1. Lag Vessels (i.e. 25/50/75 sample locations)
2. Two Pre-GAC (after filtration) samples were collected (one analyzed using certified method WS-LC-0025 Att1and other analyzed by method 537 (modified). Only results using method WS-LC0025 Att 1 reported in table.
3. Two Post-GAC (combined flow) samples were collected (one analyzed using certified method WS-LC-0025 Att1and other analyzed by method 537 (modified). Only results using method WS-LC0025 Att 1 reported in table.

**Town of New Windsor**  
**Butterhill Wellfield Temporary GAC Operation and Maintenance PFOA and PFOS Sampling Results \* (Parts Per Trillion (PPT))Continued**

Date	Analyte	GAC Pair 1 Mid-Point	GAC Pair 1 Post	GAC Pair 1 Lag 25%(South)	GAC Pair 1 Lag 50% (South)	GAC Pair 1 Lag 75%(South)	GAC Pair 2 Mid-Point	GAC Pair 2 Post	GAC Pair 2 Lag 25% (South)	GAC Pair 2 Lag 50%(South)	GAC Pair 2 Lag 75%(South)	GAC Pair 3 Mid-Point	GAC Pair 3 Post	GAC Pair 3 Lag 25%(South)	GAC Pair 3 Lag 50%(South)	GAC Pair 3 Lag 75%(South)	NYS MCLs <sup>3</sup>
<b>February 2020 (Well 2)</b>	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
<b>March 2020 (Well 1)</b>	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
<b>April 2020 (Well 1)</b>	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
<b>May 2020 (Well 3)</b>	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
<b>August 2020 (Well 3)</b>	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
<b>December 2020 (Well 3**)</b>	PFOA	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	<b>10<sup>3</sup></b>
	PFOS	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	<b>10<sup>3</sup></b>
<b>March 2021 (Well 3)</b>	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>10<sup>3</sup></b>

**Notes:**

\* 21 PFAS List Analysis.

\*\* At time of sampling Production Well No. 3 was in operation.

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. The NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.
4. NS: Not Sampled

## How to Read Your Laboratory Reports

### PFOA and PFOS Results:

- Analyte is the term used to describe what the laboratory was testing for, in this case PFOS and PFOA.
- Conc. (ng/l) is your result for PFOS and PFOA. In your case, no PFOS and PFOA were detected, thus ND or “non-detect” or <2.0 ng/l was reported. (ng/l = ppt)
- RL = reporting limit or RDL = reportable detection limit is the lowest level at which this specific testing protocol and laboratory has confidence in measuring the given analyte.
- Qualifiers are added information to help understand the quality of the data. Often, if something about the results or the calibration of the testing equipment was irregular, it would be reported here.

All other columns represent laboratory quality control information. The laboratory calibrates its equipment against a precise quantity of the chemical in order to ensure that the equipment is functioning properly. Some laboratory reports may not have all this information.

- Labeled Standard or Surrogate is the lab’s specific name for an individual control sample.
- %R is the percent of the control sample that was detected by the equipment. A 100% reading represents perfect equipment alignment.
- LCL-UCL is the lower concentration limit (LCL) and upper concentration limit (UCL). The LCL represents the lowest acceptable %R value and the UCL represent the highest acceptable %R value required to ensure your result is accurate.
- Qualifiers: If a result quality control variance is noted or if the %R value of any of the control samples were outside the allowable range that would have been noted in this last column. This gives the analyst less confidence in the measured value.

The analysis for PFOS and PFOA is performed using modified EPA Method 537. The laboratory may report a detection of PFOS and PFOA down to approximately 2.0 nanograms per liter (ng/l) or parts per trillion (ppt).

Sec Goal is the EPA nomenclature for all contaminants that have regulatory levels set based on aesthetics (for example, taste or color). DOH recognizes these EPA secondary goals as primary standards and enforces its drinking water quality program accordingly.

- Date/Time represents the date and time of the analysis at the lab.
- By refers to the technician who ran the test.
- Reference indicates the EPA method used in the test.



## Environment Testing America



### ANALYTICAL REPORT

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

Laboratory Job ID: 320-71415-2

Client Project/Site: Stewart ANGB - Butterhill #336089

For:

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

Attn: Mr. Dave Chiusano

Authorized for release by:

3/27/2021 6:14:35 PM

Judy Stone, Senior Project Manager  
(484)685-0868

[Judy.Stone@Eurofinset.com](mailto:Judy.Stone@Eurofinset.com)

#### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15

# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Definitions/Glossary .....	3
Case Narrative .....	4
Detection Summary .....	6
Client Sample Results .....	9
Isotope Dilution Summary .....	30
QC Sample Results .....	33
QC Association Summary .....	40
Lab Chronicle .....	42
Certification Summary .....	46
Method Summary .....	47
Sample Summary .....	48
Chain of Custody .....	49
Receipt Checklists .....	53

# Definitions/Glossary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

## 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

# Case Narrative

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

Job ID: 320-71415-2

## Job ID: 320-71415-2

### Laboratory: Eurofins TestAmerica, Sacramento

#### Narrative

#### Job Narrative 320-71415-2

#### Comments

This report includes the data for samples analyzed for PFC\_IDA for the full list of 21 analytes. The data for samples analyzed for the short list by method PFAS\_DI\_DW were reported in job series -1.

#### Receipt

The samples were received on 3/18/2021 9:50 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 0.5° C and 0.7° C.

#### Receipt Exceptions

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Samples 13 - 30, have part of ID abbreviated. North is abbreviated as N on container IDs. South is abbreviated as S on container IDs. Also sample 22, 1 of 2 containers did not have time on it. COC has time as 1004.

All samples were logged in and labeled according to COC.

BH20210317-PRE GAC (320-71415-1), BH20210317-1 Mid (320-71415-2), BH20210317-1 POST (320-71415-3), BH20210317-2 MID (320-71415-4), BH20210317-2 POST (320-71415-5), BH20210317-3 MID (320-71415-6), BH20210317-3 POST (320-71415-7), BH20210317- POST GAC (320-71415-8), BH20210317- POST GAC (320-71415-8[MS]), BH20210317- POST GAC (320-71415-8[MSD]), BH20210317-POST GAC (DUP) (320-71415-9), BH20210317-3RAW (320-71415-10), BH20210317-PRE-GAC (320-71415-11), BH20210317-POST GAC (320-71415-12), BH20210317-1 NORTH-25 (320-71415-13), BH20210317-2 NORTH-50 (320-71415-14), BH20210317-1 NORTH-75 (320-71415-15), BH20210317-1 SOUTH-25 (320-71415-16), BH20210317-1 SOUTH-50 (320-71415-17), BH20210317-2 SOUTH 75 (320-71415-18), BH20210317-2 NORTH 25 (320-71415-19), BH20210317-2 NORTH 50 (320-71415-20), BH20210317-2 NORTH 75 (320-71415-21), BH20210317-2 SOUTH 25 (320-71415-22), BH20210317-2 SOUTH 50 (320-71415-23), BH20210317-2 SOUTH 75 (320-71415-24), BH20210317-3 NORTH 25 (320-71415-25), BH20210317-3 NORTH 50 (320-71415-26), BH20210317-3 NORTH 75 (320-71415-27), BH20210317-3 SOUTH 25 (320-71415-28), BH20210317-3 SOUTH 50 (320-71415-29) and BH20210317-3 SOUTH 75 (320-71415-30).

Two Trizma Lot numbers SLCD7801 & 19510079. No field blanks. The following samples had Trizma Lot # SLCD7801: Samples 4-10 (8 MS/MSD), 12 & 21-30. Also samples 1 & 11

The following samples had Trizma Lot # 19510079: Samples 2, 3 & 13-20

#### LCMS

Method 537 (modified): The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-472921 and 320-472921 and analytical batch 320-473959 recovered outside control limits for the following analytes: Perfluorotridecanoic acid (PFTriA).

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

#### Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-472921 and 320-472921.

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-472925 and 320-472925.

Method 3535: The following sample contained black sediments prior to extraction: BH20210317-2 SOUTH 25 (320-71415-22)

Method 3535: The following sample contained sediments which clogged the cartridge during extraction: BH20210317-2 SOUTH 25 (320-71415-22)

Method 3535: The following samples were preserved with trizma: BH20210317-3RAW (320-71415-10), BH20210317-PRE-GAC (320-71415-11), BH20210317-POST GAC (320-71415-12), BH20210317-1 NORTH-25 (320-71415-13), BH20210317-2 NORTH-50

## Case Narrative

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

Job ID: 320-71415-2

### Job ID: 320-71415-2 (Continued)

#### Laboratory: Eurofins TestAmerica, Sacramento (Continued)

(320-71415-14), BH20210317-1 NORTH-75 (320-71415-15), BH20210317-1 SOUTH-25 (320-71415-16), BH20210317-1 SOUTH-50 (320-71415-17), BH20210317-2 SOUTH 75 (320-71415-18), BH20210317-2 NORTH 25 (320-71415-19), BH20210317-2 NORTH 50 (320-71415-20), BH20210317-2 NORTH 75 (320-71415-21), BH20210317-2 SOUTH 25 (320-71415-22), BH20210317-2 SOUTH 50 (320-71415-23), BH20210317-2 SOUTH 75 (320-71415-24), BH20210317-3 NORTH 25 (320-71415-25), BH20210317-3 NORTH 50 (320-71415-26), BH20210317-3 NORTH 75 (320-71415-27), BH20210317-3 SOUTH 25 (320-71415-28), BH20210317-3 SOUTH 50 (320-71415-29) and BH20210317-3 SOUTH 75 (320-71415-30).

Thus, the MB, LCS and LCSD also contain trizma.

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: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Client Sample ID: BH20210317-3RAW

## Lab Sample ID: 320-71415-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	5.3		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.9		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoroctanoic acid (PFOA)	2.9		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	2.6		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorotridecanoic acid (PFTriA)	2.9 *1		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	2.4		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexamersulfonic acid (PFHxS)	3.5		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.3		1.9		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20210317-PRE-GAC

## Lab Sample ID: 320-71415-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	5.1		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.7		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoroctanoic acid (PFOA)	3.0		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexamersulfonic acid (PFHxS)	3.6		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.9		1.9		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20210317-POST GAC

## Lab Sample ID: 320-71415-12

No Detections.

## Client Sample ID: BH20210317-1 NORTH-25

## Lab Sample ID: 320-71415-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	5.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroctanoic acid (PFOA)	5.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexamersulfonic acid (PFHxS)	6.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	12		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20210317-1 NORTH-50

## Lab Sample ID: 320-71415-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	4.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20210317-1 NORTH-75

## Lab Sample ID: 320-71415-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	3.0		1.8		ng/L	1		537 (modified)	Total/NA

## Client Sample ID: BH20210317-1 SOUTH-25

## Lab Sample ID: 320-71415-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	1.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	2.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	4.1		1.8		ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

## Detection Summary

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

Job ID: 320-71415-2

### **Client Sample ID: BH20210317-1 SOUTH-50**

### **Lab Sample ID: 320-71415-17**

No Detections.

### **Client Sample ID: BH20210317-1 SOUTH 75**

### **Lab Sample ID: 320-71415-18**

No Detections.

### **Client Sample ID: BH20210317-2 NORTH 25**

### **Lab Sample ID: 320-71415-19**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	5.4		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.5		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.8		1.8		ng/L	1		537 (modified)	Total/NA

### **Client Sample ID: BH20210317-2 NORTH 50**

### **Lab Sample ID: 320-71415-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	4.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2		1.8		ng/L	1		537 (modified)	Total/NA

### **Client Sample ID: BH20210317-2 NORTH 75**

### **Lab Sample ID: 320-71415-21**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	3.0		1.8		ng/L	1		537 (modified)	Total/NA

### **Client Sample ID: BH20210317-2 SOUTH 25**

### **Lab Sample ID: 320-71415-22**

No Detections.

### **Client Sample ID: BH20210317-2 SOUTH 50**

### **Lab Sample ID: 320-71415-23**

No Detections.

### **Client Sample ID: BH20210317-2 SOUTH 75**

### **Lab Sample ID: 320-71415-24**

No Detections.

### **Client Sample ID: BH20210317-3 NORTH 25**

### **Lab Sample ID: 320-71415-25**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	4.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.2		1.8		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.3		1.8		ng/L	1		537 (modified)	Total/NA

### **Client Sample ID: BH20210317-3 NORTH 50**

### **Lab Sample ID: 320-71415-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	4.3		1.8		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		1.8		ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

## Detection Summary

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

### **Client Sample ID: BH20210317-3 NORTH 50 (Continued)**

**Lab Sample ID: 320-71415-26**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	2.1		1.8		ng/L	1		537 (modified)	Total/NA

### **Client Sample ID: BH20210317-3 NORTH 75**

**Lab Sample ID: 320-71415-27**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	3.0		1.8		ng/L	1		537 (modified)	Total/NA

### **Client Sample ID: BH20210317-3 SOUTH 25**

**Lab Sample ID: 320-71415-28**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	2.0		1.8		ng/L	1		537 (modified)	Total/NA

### **Client Sample ID: BH20210317-3 SOUTH 50**

**Lab Sample ID: 320-71415-29**

No Detections.

### **Client Sample ID: BH20210317-3 SOUTH 75**

**Lab Sample ID: 320-71415-30**

No Detections.

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-3RAW**

**Lab Sample ID: 320-71415-10**

**Matrix: Water**

Date Collected: 03/17/21 09:25

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.8		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>5.3</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>3.9</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>2.1</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.9</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluorododecanoic acid (PFDoA)</b>	<b>2.6</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluorotridecanoic acid (PFTriA)</b>	<b>2.9 *1</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluorotetradecanoic acid (PFTeA)</b>	<b>2.4</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>3.5</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>5.3</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Perfluorooctanesulfonamide (FOSA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8		ng/L	03/22/21 18:55	03/25/21 03:21		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8		ng/L	03/22/21 18:55	03/25/21 03:21		1
6:2 FTS	ND		4.8		ng/L	03/22/21 18:55	03/25/21 03:21		1
8:2 FTS	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:21		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C5 PFPeA	111		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C2 PFHxA	117		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C4 PFHpA	115		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C4 PFOA	120		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C5 PFNA	124		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C2 PFDA	100		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C2 PFUnA	95		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C2 PFDoA	88		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C2 PFTeDA	95		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C3 PFBS	113		25 - 150				03/22/21 18:55	03/25/21 03:21	1
18O2 PFHxS	112		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C4 PFOS	103		25 - 150				03/22/21 18:55	03/25/21 03:21	1
13C8 FOSA	101		25 - 150				03/22/21 18:55	03/25/21 03:21	1
d3-NMeFOSAA	92		25 - 150				03/22/21 18:55	03/25/21 03:21	1
d5-NEtFOSAA	92		25 - 150				03/22/21 18:55	03/25/21 03:21	1
M2-6:2 FTS	115		25 - 150				03/22/21 18:55	03/25/21 03:21	1
M2-8:2 FTS	101		25 - 150				03/22/21 18:55	03/25/21 03:21	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-PRE-GAC**

**Lab Sample ID: 320-71415-11**

**Matrix: Water**

Date Collected: 03/17/21 08:55

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.7		ng/L	03/22/21 18:55	03/25/21 03:30		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>5.1</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>3.7</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>2.0</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>3.0</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>3.6</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>4.9</b>		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Perfluoroctanesulfonamide (FOSA)	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7		ng/L	03/22/21 18:55	03/25/21 03:30		1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7		ng/L	03/22/21 18:55	03/25/21 03:30		1
6:2 FTS	ND		4.7		ng/L	03/22/21 18:55	03/25/21 03:30		1
8:2 FTS	ND		1.9		ng/L	03/22/21 18:55	03/25/21 03:30		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C5 PFPeA	103		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C2 PFHxA	109		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C4 PFHpA	109		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C4 PFOA	112		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C5 PFNA	110		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C2 PFDA	102		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C2 PFUnA	105		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C2 PFDoA	84		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C2 PFTeDA	85		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C3 PFBS	106		25 - 150				03/22/21 18:55	03/25/21 03:30	1
18O2 PFHxS	105		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C4 PFOS	103		25 - 150				03/22/21 18:55	03/25/21 03:30	1
13C8 FOSA	99		25 - 150				03/22/21 18:55	03/25/21 03:30	1
d3-NMeFOSAA	92		25 - 150				03/22/21 18:55	03/25/21 03:30	1
d5-NEtFOSAA	94		25 - 150				03/22/21 18:55	03/25/21 03:30	1
M2-6:2 FTS	103		25 - 150				03/22/21 18:55	03/25/21 03:30	1
M2-8:2 FTS	102		25 - 150				03/22/21 18:55	03/25/21 03:30	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-POST GAC**

**Lab Sample ID: 320-71415-12**

**Matrix: Water**

Date Collected: 03/17/21 09:09

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:40		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:40		1
6:2 FTS	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:40		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:40		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	113		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C5 PFPeA	113		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C2 PFHxA	112		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C4 PFHpA	110		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C4 PFOA	112		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C5 PFNA	117		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C2 PFDA	105		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C2 PFUnA	99		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C2 PFDoA	103		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C2 PFTeDA	90		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C3 PFBS	111		25 - 150				03/22/21 18:55	03/25/21 03:40	1
18O2 PFHxS	109		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C4 PFOS	101		25 - 150				03/22/21 18:55	03/25/21 03:40	1
13C8 FOSA	104		25 - 150				03/22/21 18:55	03/25/21 03:40	1
d3-NMeFOSAA	93		25 - 150				03/22/21 18:55	03/25/21 03:40	1
d5-NEtFOSAA	95		25 - 150				03/22/21 18:55	03/25/21 03:40	1
M2-6:2 FTS	112		25 - 150				03/22/21 18:55	03/25/21 03:40	1
M2-8:2 FTS	107		25 - 150				03/22/21 18:55	03/25/21 03:40	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-1 NORTH-25**

**Lab Sample ID: 320-71415-13**

**Matrix: Water**

Date Collected: 03/17/21 09:34

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:49		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>5.5</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>4.6</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>3.3</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>5.6</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.9</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>6.2</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>12</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:49		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:49		1
6:2 FTS	ND		4.5		ng/L	03/22/21 18:55	03/25/21 03:49		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:49		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C5 PFPeA	103		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C2 PFHxA	110		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C4 PFHpA	114		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C4 PFOA	121		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C5 PFNA	111		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C2 PFDA	111		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C2 PFUnA	103		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C2 PFDoA	100		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C2 PFTeDA	106		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C3 PFBS	109		25 - 150				03/22/21 18:55	03/25/21 03:49	1
18O2 PFHxS	114		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C4 PFOS	110		25 - 150				03/22/21 18:55	03/25/21 03:49	1
13C8 FOSA	105		25 - 150				03/22/21 18:55	03/25/21 03:49	1
d3-NMeFOSAA	107		25 - 150				03/22/21 18:55	03/25/21 03:49	1
d5-NEtFOSAA	111		25 - 150				03/22/21 18:55	03/25/21 03:49	1
M2-6:2 FTS	117		25 - 150				03/22/21 18:55	03/25/21 03:49	1
M2-8:2 FTS	117		25 - 150				03/22/21 18:55	03/25/21 03:49	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-1 NORTH-50**

**Lab Sample ID: 320-71415-14**

**Matrix: Water**

Date Collected: 03/17/21 09:36

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6		ng/L	03/22/21 18:55	03/25/21 03:58		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>4.3</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>2.5</b>		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluoroctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluoroctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
Perfluoroctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6		ng/L	03/22/21 18:55	03/25/21 03:58		1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6		ng/L	03/22/21 18:55	03/25/21 03:58		1
6:2 FTS	ND		4.6		ng/L	03/22/21 18:55	03/25/21 03:58		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 03:58		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C5 PFPeA	109		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C2 PFHxA	112		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C4 PFHpA	114		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C4 PFOA	117		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C5 PFNA	125		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C2 PFDA	104		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C2 PFUnA	110		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C2 PFDoA	106		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C2 PFTeDA	94		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C3 PFBS	116		25 - 150	03/22/21 18:55	03/25/21 03:58	1
18O2 PFHxS	114		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C4 PFOS	112		25 - 150	03/22/21 18:55	03/25/21 03:58	1
13C8 FOSA	109		25 - 150	03/22/21 18:55	03/25/21 03:58	1
d3-NMeFOSAA	102		25 - 150	03/22/21 18:55	03/25/21 03:58	1
d5-NEtFOSAA	103		25 - 150	03/22/21 18:55	03/25/21 03:58	1
M2-6:2 FTS	116		25 - 150	03/22/21 18:55	03/25/21 03:58	1
M2-8:2 FTS	109		25 - 150	03/22/21 18:55	03/25/21 03:58	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-1 NORTH-75**

**Lab Sample ID: 320-71415-15**

**Matrix: Water**

Date Collected: 03/17/21 09:37

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:07		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>3.0</b>		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorododecanoic acid (PFDa)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluoroctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Perfluoroctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:07		1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:07		1
6:2 FTS	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:07		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:07		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	111		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C5 PFPeA	112		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C2 PFHxA	113		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C4 PFHpA	111		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C4 PFOA	120		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C5 PFNA	123		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C2 PFDA	105		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C2 PFUnA	118		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C2 PFDa	107		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C2 PFTeDA	105		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C3 PFBS	111		25 - 150				03/22/21 18:55	03/25/21 04:07	1
18O2 PFHxS	112		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C4 PFOS	109		25 - 150				03/22/21 18:55	03/25/21 04:07	1
13C8 FOSA	107		25 - 150				03/22/21 18:55	03/25/21 04:07	1
d3-NMeFOSAA	97		25 - 150				03/22/21 18:55	03/25/21 04:07	1
d5-NEtFOSAA	104		25 - 150				03/22/21 18:55	03/25/21 04:07	1
M2-6:2 FTS	120		25 - 150				03/22/21 18:55	03/25/21 04:07	1
M2-8:2 FTS	110		25 - 150				03/22/21 18:55	03/25/21 04:07	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-1 SOUTH-25**

**Lab Sample ID: 320-71415-16**

**Matrix: Water**

Date Collected: 03/17/21 09:43

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 04:16		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>1.8</b>		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorotridecanoic acid (PFTriA)	ND	*1	1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
<b>Perfluorotetradecanoic acid (PFTeA)</b>	<b>2.2</b>		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluoroctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
<b>Perfluorooctanesulfonamide (FOSA)</b>	<b>4.1</b>		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 04:16		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 04:16		1
6:2 FTS	ND		4.5		ng/L	03/22/21 18:55	03/25/21 04:16		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:16		1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
13C4 PFBA	118		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C5 PFPeA	114		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C2 PFHxA	119		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C4 PFHpA	118		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C4 PFOA	117		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C5 PFNA	126		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C2 PFDA	116		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C2 PFUnA	117		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C2 PFDoA	115		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C2 PFTeDA	104		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C3 PFBS	119		25 - 150			03/22/21 18:55	03/25/21 04:16		1
18O2 PFHxS	114		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C4 PFOS	109		25 - 150			03/22/21 18:55	03/25/21 04:16		1
13C8 FOSA	101		25 - 150			03/22/21 18:55	03/25/21 04:16		1
d3-NMeFOSAA	86		25 - 150			03/22/21 18:55	03/25/21 04:16		1
d5-NEtFOSAA	102		25 - 150			03/22/21 18:55	03/25/21 04:16		1
M2-6:2 FTS	113		25 - 150			03/22/21 18:55	03/25/21 04:16		1
M2-8:2 FTS	107		25 - 150			03/22/21 18:55	03/25/21 04:16		1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-1 SOUTH-50**

**Lab Sample ID: 320-71415-17**

**Matrix: Water**

Date Collected: 03/17/21 09:45

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorododecanoic acid (PFDa)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:43		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:43		1
6:2 FTS	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:43		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:43		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	114		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C5 PFPeA	112		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C2 PFHxA	114		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C4 PFHpA	111		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C4 PFOA	116		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C5 PFNA	120		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C2 PFDA	111		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C2 PFUnA	116		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C2 PFDa	110		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C2 PFTeDA	104		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C3 PFBS	111		25 - 150	03/22/21 18:55	03/25/21 04:43	1
18O2 PFHxS	113		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C4 PFOS	111		25 - 150	03/22/21 18:55	03/25/21 04:43	1
13C8 FOSA	109		25 - 150	03/22/21 18:55	03/25/21 04:43	1
d3-NMeFOSAA	103		25 - 150	03/22/21 18:55	03/25/21 04:43	1
d5-NEtFOSAA	106		25 - 150	03/22/21 18:55	03/25/21 04:43	1
M2-6:2 FTS	118		25 - 150	03/22/21 18:55	03/25/21 04:43	1
M2-8:2 FTS	117		25 - 150	03/22/21 18:55	03/25/21 04:43	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-1 SOUTH 75**

**Lab Sample ID: 320-71415-18**

**Matrix: Water**

Date Collected: 03/17/21 09:46

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:53		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:53		1
6:2 FTS	ND		4.4		ng/L	03/22/21 18:55	03/25/21 04:53		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 04:53		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	112		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C5 PFPeA	114		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C2 PFHxA	114		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C4 PFHpA	116		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C4 PFOA	115		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C5 PFNA	116		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C2 PFDA	114		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C2 PFUnA	105		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C2 PFDoA	120		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C2 PFTeDA	114		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C3 PFBS	113		25 - 150	03/22/21 18:55	03/25/21 04:53	1
18O2 PFHxS	112		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C4 PFOS	109		25 - 150	03/22/21 18:55	03/25/21 04:53	1
13C8 FOSA	105		25 - 150	03/22/21 18:55	03/25/21 04:53	1
d3-NMeFOSAA	105		25 - 150	03/22/21 18:55	03/25/21 04:53	1
d5-NEtFOSAA	104		25 - 150	03/22/21 18:55	03/25/21 04:53	1
M2-6:2 FTS	114		25 - 150	03/22/21 18:55	03/25/21 04:53	1
M2-8:2 FTS	112		25 - 150	03/22/21 18:55	03/25/21 04:53	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-2 NORTH 25**

**Lab Sample ID: 320-71415-19**

**Matrix: Water**

Date Collected: 03/17/21 09:53

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:02		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>5.4</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>3.9</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>2.3</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>3.5</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>3.9</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>6.6</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
<b>Perfluorooctanesulfonamide (FOSA)</b>	<b>1.8</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:02		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:02		1
6:2 FTS	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:02		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:02		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	84		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C5 PFPeA	96		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C2 PFHxA	104		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C4 PFHpA	110		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C4 PFOA	111		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C5 PFNA	107		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C2 PFDA	96		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C2 PFUnA	105		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C2 PFDoA	96		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C2 PFTeDA	96		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C3 PFBS	103		25 - 150				03/22/21 18:55	03/25/21 05:02	1
18O2 PFHxS	101		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C4 PFOS	95		25 - 150				03/22/21 18:55	03/25/21 05:02	1
13C8 FOSA	95		25 - 150				03/22/21 18:55	03/25/21 05:02	1
d3-NMeFOSAA	87		25 - 150				03/22/21 18:55	03/25/21 05:02	1
d5-NEtFOSAA	87		25 - 150				03/22/21 18:55	03/25/21 05:02	1
M2-6:2 FTS	106		25 - 150				03/22/21 18:55	03/25/21 05:02	1
M2-8:2 FTS	99		25 - 150				03/22/21 18:55	03/25/21 05:02	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-2 NORTH 50**

**Lab Sample ID: 320-71415-20**

**Matrix: Water**

Date Collected: 03/17/21 09:53

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:11		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>4.6</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>2.9</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.1</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>1.9</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.2</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:11		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:11		1
6:2 FTS	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:11		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:11		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C5 PFPeA	106		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C2 PFHxA	119		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C4 PFHpA	115		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C4 PFOA	113		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C5 PFNA	116		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C2 PFDA	102		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C2 PFUnA	118		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C2 PFDoA	107		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C2 PFTeDA	96		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C3 PFBS	106		25 - 150				03/22/21 18:55	03/25/21 05:11	1
18O2 PFHxS	108		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C4 PFOS	102		25 - 150				03/22/21 18:55	03/25/21 05:11	1
13C8 FOSA	104		25 - 150				03/22/21 18:55	03/25/21 05:11	1
d3-NMeFOSAA	82		25 - 150				03/22/21 18:55	03/25/21 05:11	1
d5-NEtFOSAA	80		25 - 150				03/22/21 18:55	03/25/21 05:11	1
M2-6:2 FTS	117		25 - 150				03/22/21 18:55	03/25/21 05:11	1
M2-8:2 FTS	104		25 - 150				03/22/21 18:55	03/25/21 05:11	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-2 NORTH 75**

**Lab Sample ID: 320-71415-21**

**Matrix: Water**

Date Collected: 03/17/21 09:56

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:20		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>3.0</b>		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluoroctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorododecanoic acid (PFDa)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluoroctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
Perfluoroctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:20		1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:20		1
6:2 FTS	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:20		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:20		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	105		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C5 PFPeA	112		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C2 PFHxA	115		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C4 PFHpA	116		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C4 PFOA	115		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C5 PFNA	115		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C2 PFDA	107		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C2 PFUnA	103		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C2 PFDa	105		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C2 PFTeDA	99		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C3 PFBS	113		25 - 150	03/22/21 18:55	03/25/21 05:20	1
18O2 PFHxS	112		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C4 PFOS	106		25 - 150	03/22/21 18:55	03/25/21 05:20	1
13C8 FOSA	102		25 - 150	03/22/21 18:55	03/25/21 05:20	1
d3-NMeFOSAA	96		25 - 150	03/22/21 18:55	03/25/21 05:20	1
d5-NEtFOSAA	98		25 - 150	03/22/21 18:55	03/25/21 05:20	1
M2-6:2 FTS	114		25 - 150	03/22/21 18:55	03/25/21 05:20	1
M2-8:2 FTS	107		25 - 150	03/22/21 18:55	03/25/21 05:20	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-2 SOUTH 25**

**Lab Sample ID: 320-71415-22**

**Matrix: Water**

Date Collected: 03/17/21 10:04

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:29		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:29		1
6:2 FTS	ND		4.4		ng/L	03/22/21 18:55	03/25/21 05:29		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:29		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	92		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C5 PFPeA	90		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C2 PFHxA	89		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C4 PFHpA	88		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C4 PFOA	87		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C5 PFNA	88		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C2 PFDA	75		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C2 PFUnA	78		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C2 PFDoA	78		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C2 PFTeDA	73		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C3 PFBS	88		25 - 150	03/22/21 18:55	03/25/21 05:29	1
18O2 PFHxS	81		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C4 PFOS	77		25 - 150	03/22/21 18:55	03/25/21 05:29	1
13C8 FOSA	57		25 - 150	03/22/21 18:55	03/25/21 05:29	1
d3-NMeFOSAA	75		25 - 150	03/22/21 18:55	03/25/21 05:29	1
d5-NEtFOSAA	77		25 - 150	03/22/21 18:55	03/25/21 05:29	1
M2-6:2 FTS	88		25 - 150	03/22/21 18:55	03/25/21 05:29	1
M2-8:2 FTS	79		25 - 150	03/22/21 18:55	03/25/21 05:29	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-2 SOUTH 50**

**Lab Sample ID: 320-71415-23**

**Matrix: Water**

Date Collected: 03/17/21 10:05

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorododecanoic acid (PFDa)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:38		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:38		1
6:2 FTS	ND		4.5		ng/L	03/22/21 18:55	03/25/21 05:38		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:38		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	115		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C5 PFPeA	115		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C2 PFHxA	117		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C4 PFHpA	118		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C4 PFOA	110		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C5 PFNA	126		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C2 PFDA	109		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C2 PFUnA	114		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C2 PFDa	108		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C2 PFTeDA	105		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C3 PFBS	119		25 - 150	03/22/21 18:55	03/25/21 05:38	1
18O2 PFHxS	116		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C4 PFOS	110		25 - 150	03/22/21 18:55	03/25/21 05:38	1
13C8 FOSA	105		25 - 150	03/22/21 18:55	03/25/21 05:38	1
d3-NMeFOSAA	107		25 - 150	03/22/21 18:55	03/25/21 05:38	1
d5-NEtFOSAA	101		25 - 150	03/22/21 18:55	03/25/21 05:38	1
M2-6:2 FTS	114		25 - 150	03/22/21 18:55	03/25/21 05:38	1
M2-8:2 FTS	111		25 - 150	03/22/21 18:55	03/25/21 05:38	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-2 SOUTH 75**

**Lab Sample ID: 320-71415-24**

**Matrix: Water**

Date Collected: 03/17/21 10:08

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorododecanoic acid (PFDa)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorotridecanoic acid (PFTriA)	ND *1		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6		ng/L	03/22/21 18:55	03/25/21 05:47		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6		ng/L	03/22/21 18:55	03/25/21 05:47		1
6:2 FTS	ND		4.6		ng/L	03/22/21 18:55	03/25/21 05:47		1
8:2 FTS	ND		1.8		ng/L	03/22/21 18:55	03/25/21 05:47		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	111		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C5 PFPeA	111		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C2 PFHxA	111		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C4 PFHpA	111		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C4 PFOA	113		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C5 PFNA	118		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C2 PFDA	107		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C2 PFUnA	106		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C2 PFDa	103		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C2 PFTeDA	99		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C3 PFBS	112		25 - 150	03/22/21 18:55	03/25/21 05:47	1
18O2 PFHxS	111		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C4 PFOS	106		25 - 150	03/22/21 18:55	03/25/21 05:47	1
13C8 FOSA	106		25 - 150	03/22/21 18:55	03/25/21 05:47	1
d3-NMeFOSAA	100		25 - 150	03/22/21 18:55	03/25/21 05:47	1
d5-NEtFOSAA	101		25 - 150	03/22/21 18:55	03/25/21 05:47	1
M2-6:2 FTS	112		25 - 150	03/22/21 18:55	03/25/21 05:47	1
M2-8:2 FTS	110		25 - 150	03/22/21 18:55	03/25/21 05:47	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-3 NORTH 25**

**Lab Sample ID: 320-71415-25**

**Matrix: Water**

Date Collected: 03/17/21 10:15

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:09		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>4.8</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>3.2</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>1.8</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.6</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>2.9</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>4.3</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Perfluoroctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:09		1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:09		1
6:2 FTS	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:09		1
8:2 FTS	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:09		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C5 PFPeA	109		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C2 PFHxA	115		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C4 PFHpA	114		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C4 PFOA	115		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C5 PFNA	123		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C2 PFDA	113		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C2 PFUnA	115		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C2 PFDoA	91		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C2 PFTeDA	98		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C3 PFBS	111		25 - 150				03/22/21 19:23	03/24/21 22:09	1
18O2 PFHxS	110		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C4 PFOS	105		25 - 150				03/22/21 19:23	03/24/21 22:09	1
13C8 FOSA	101		25 - 150				03/22/21 19:23	03/24/21 22:09	1
d3-NMeFOSAA	97		25 - 150				03/22/21 19:23	03/24/21 22:09	1
d5-NEtFOSAA	97		25 - 150				03/22/21 19:23	03/24/21 22:09	1
M2-6:2 FTS	115		25 - 150				03/22/21 19:23	03/24/21 22:09	1
M2-8:2 FTS	112		25 - 150				03/22/21 19:23	03/24/21 22:09	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-3 NORTH 50**

**Lab Sample ID: 320-71415-26**

**Matrix: Water**

Date Collected: 03/17/21 10:16

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:19		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>4.3</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>2.6</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluoroctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.1</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:19		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:19		1
6:2 FTS	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:19		1
8:2 FTS	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:19		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C5 PFPeA	108		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C2 PFHxA	118		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C4 PFHpA	109		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C4 PFOA	114		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C5 PFNA	114		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C2 PFDA	104		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C2 PFUnA	93		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C2 PFDoA	87		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C2 PFTeDA	79		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C3 PFBS	107		25 - 150				03/22/21 19:23	03/24/21 22:19	1
18O2 PFHxS	108		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C4 PFOS	97		25 - 150				03/22/21 19:23	03/24/21 22:19	1
13C8 FOSA	101		25 - 150				03/22/21 19:23	03/24/21 22:19	1
d3-NMeFOSAA	71		25 - 150				03/22/21 19:23	03/24/21 22:19	1
d5-NEtFOSAA	69		25 - 150				03/22/21 19:23	03/24/21 22:19	1
M2-6:2 FTS	115		25 - 150				03/22/21 19:23	03/24/21 22:19	1
M2-8:2 FTS	102		25 - 150				03/22/21 19:23	03/24/21 22:19	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-3 NORTH 75**

**Lab Sample ID: 320-71415-27**

**Matrix: Water**

Date Collected: 03/17/21 10:18

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.6		ng/L	03/22/21 19:23	03/24/21 22:28		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>3.0</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluoroctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorododecanoic acid (PFDa)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6		ng/L	03/22/21 19:23	03/24/21 22:28		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6		ng/L	03/22/21 19:23	03/24/21 22:28		1
6:2 FTS	ND		4.6		ng/L	03/22/21 19:23	03/24/21 22:28		1
8:2 FTS	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:28		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	106		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C5 PFPeA	109		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C2 PFHxA	112		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C4 PFHpA	114		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C4 PFOA	111		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C5 PFNA	116		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C2 PFDA	99		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C2 PFUnA	110		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C2 PFDa	110		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C2 PFTeDA	98		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C3 PFBS	108		25 - 150				03/22/21 19:23	03/24/21 22:28	1
18O2 PFHxS	111		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C4 PFOS	105		25 - 150				03/22/21 19:23	03/24/21 22:28	1
13C8 FOSA	100		25 - 150				03/22/21 19:23	03/24/21 22:28	1
d3-NMeFOSAA	93		25 - 150				03/22/21 19:23	03/24/21 22:28	1
d5-NEtFOSAA	96		25 - 150				03/22/21 19:23	03/24/21 22:28	1
M2-6:2 FTS	112		25 - 150				03/22/21 19:23	03/24/21 22:28	1
M2-8:2 FTS	105		25 - 150				03/22/21 19:23	03/24/21 22:28	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-3 SOUTH 25****Lab Sample ID: 320-71415-28****Matrix: Water**

Date Collected: 03/17/21 10:38

Date Received: 03/18/21 09:50

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:37		1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>2.0</b>		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorododecanoic acid (PFDa)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:37		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:37		1
6:2 FTS	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:37		1
8:2 FTS	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:37		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	111		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C5 PFPeA	109		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C2 PFHxA	111		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C4 PFHpA	110		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C4 PFOA	116		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C5 PFNA	120		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C2 PFDA	108		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C2 PFUnA	103		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C2 PFDa	96		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C2 PFTeDA	98		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C3 PFBS	108		25 - 150				03/22/21 19:23	03/24/21 22:37	1
18O2 PFHxS	109		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C4 PFOS	106		25 - 150				03/22/21 19:23	03/24/21 22:37	1
13C8 FOSA	99		25 - 150				03/22/21 19:23	03/24/21 22:37	1
d3-NMeFOSAA	94		25 - 150				03/22/21 19:23	03/24/21 22:37	1
d5-NEtFOSAA	97		25 - 150				03/22/21 19:23	03/24/21 22:37	1
M2-6:2 FTS	108		25 - 150				03/22/21 19:23	03/24/21 22:37	1
M2-8:2 FTS	107		25 - 150				03/22/21 19:23	03/24/21 22:37	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-3 SOUTH 50**

**Lab Sample ID: 320-71415-29**

**Matrix: Water**

Date Collected: 03/17/21 10:39

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorododecanoic acid (PFDaO)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4		ng/L	03/22/21 19:23	03/24/21 22:46		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4		ng/L	03/22/21 19:23	03/24/21 22:46		1
6:2 FTS	ND		4.4		ng/L	03/22/21 19:23	03/24/21 22:46		1
8:2 FTS	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:46		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	112		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C5 PFPeA	110		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C2 PFHxA	108		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C4 PFHpA	113		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C4 PFOA	107		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C5 PFNA	116		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C2 PFDA	102		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C2 PFUnA	102		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C2 PFDaO	107		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C2 PFTeDA	93		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C3 PFBS	109		25 - 150	03/22/21 19:23	03/24/21 22:46	1
18O2 PFHxS	110		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C4 PFOS	101		25 - 150	03/22/21 19:23	03/24/21 22:46	1
13C8 FOSA	101		25 - 150	03/22/21 19:23	03/24/21 22:46	1
d3-NMeFOSAA	91		25 - 150	03/22/21 19:23	03/24/21 22:46	1
d5-NEtFOSAA	96		25 - 150	03/22/21 19:23	03/24/21 22:46	1
M2-6:2 FTS	109		25 - 150	03/22/21 19:23	03/24/21 22:46	1
M2-8:2 FTS	104		25 - 150	03/22/21 19:23	03/24/21 22:46	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-3 SOUTH 75**

**Lab Sample ID: 320-71415-30**

**Matrix: Water**

Date Collected: 03/17/21 10:40

Date Received: 03/18/21 09:50

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
Perfluorooctanesulfonamide (FOSA)	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:55		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:55		1
6:2 FTS	ND		4.5		ng/L	03/22/21 19:23	03/24/21 22:55		1
8:2 FTS	ND		1.8		ng/L	03/22/21 19:23	03/24/21 22:55		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	117		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C5 PFPeA	117		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C2 PFHxA	115		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C4 PFHpA	112		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C4 PFOA	114		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C5 PFNA	115		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C2 PFDA	112		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C2 PFUnA	110		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C2 PFDoA	125		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C2 PFTeDA	90		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C3 PFBS	116		25 - 150	03/22/21 19:23	03/24/21 22:55	1
18O2 PFHxS	109		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C4 PFOS	110		25 - 150	03/22/21 19:23	03/24/21 22:55	1
13C8 FOSA	110		25 - 150	03/22/21 19:23	03/24/21 22:55	1
d3-NMeFOSAA	103		25 - 150	03/22/21 19:23	03/24/21 22:55	1
d5-NEtFOSAA	104		25 - 150	03/22/21 19:23	03/24/21 22:55	1
M2-6:2 FTS	110		25 - 150	03/22/21 19:23	03/24/21 22:55	1
M2-8:2 FTS	109		25 - 150	03/22/21 19:23	03/24/21 22:55	1

Eurofins TestAmerica, Sacramento

# Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-71415-10	BH20210317-3RAW	97	111	117	115	120	124	100	95
320-71415-11	BH20210317-PRE-GAC	90	103	109	109	112	110	102	105
320-71415-12	BH20210317-POST GAC	113	113	112	110	112	117	105	99
320-71415-13	BH20210317-1 NORTH-25	91	103	110	114	121	111	111	103
320-71415-14	BH20210317-1 NORTH-50	102	109	112	114	117	125	104	110
320-71415-15	BH20210317-1 NORTH-75	111	112	113	111	120	123	105	118
320-71415-16	BH20210317-1 SOUTH-25	118	114	119	118	117	126	116	117
320-71415-17	BH20210317-1 SOUTH-50	114	112	114	111	116	120	111	116
320-71415-18	BH20210317-1 SOUTH 75	112	114	114	116	115	116	114	105
320-71415-19	BH20210317-2 NORTH 25	84	96	104	110	111	107	96	105
320-71415-20	BH20210317-2 NORTH 50	95	106	119	115	113	116	102	118
320-71415-21	BH20210317-2 NORTH 75	105	112	115	116	115	115	107	103
320-71415-22	BH20210317-2 SOUTH 25	92	90	89	88	87	88	75	78
320-71415-23	BH20210317-2 SOUTH 50	115	115	117	118	110	126	109	114
320-71415-24	BH20210317-2 SOUTH 75	111	111	111	111	113	118	107	106
320-71415-25	BH20210317-3 NORTH 25	95	109	115	114	115	123	113	115
320-71415-26	BH20210317-3 NORTH 50	97	108	118	109	114	114	104	93
320-71415-27	BH20210317-3 NORTH 75	106	109	112	114	111	116	99	110
320-71415-28	BH20210317-3 SOUTH 25	111	109	111	110	116	120	108	103
320-71415-29	BH20210317-3 SOUTH 50	112	110	108	113	107	116	102	102
320-71415-30	BH20210317-3 SOUTH 75	117	117	115	112	114	115	112	110
LCS 320-472921/2-A	Lab Control Sample	111	110	110	108	117	117	101	98
LCS 320-472925/2-A	Lab Control Sample	119	117	119	114	124	124	115	116
LCSD 320-472921/3-A	Lab Control Sample Dup	115	115	114	113	118	113	103	116
LCSD 320-472925/3-A	Lab Control Sample Dup	107	102	104	105	107	113	95	105
MB 320-472921/1-A	Method Blank	114	112	113	109	117	113	112	106
MB 320-472925/1-A	Method Blank	134	136	140	137	143	143	142	141

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-71415-10	BH20210317-3RAW	88	95	113	112	103	101	92	92
320-71415-11	BH20210317-PRE-GAC	84	85	106	105	103	99	92	94
320-71415-12	BH20210317-POST GAC	103	90	111	109	101	104	93	95
320-71415-13	BH20210317-1 NORTH-25	100	106	109	114	110	105	107	111
320-71415-14	BH20210317-1 NORTH-50	106	94	116	114	112	109	102	103
320-71415-15	BH20210317-1 NORTH-75	107	105	111	112	109	107	97	104
320-71415-16	BH20210317-1 SOUTH-25	115	104	119	114	109	101	86	102
320-71415-17	BH20210317-1 SOUTH-50	110	104	111	113	111	109	103	106
320-71415-18	BH20210317-1 SOUTH 75	120	114	113	112	109	105	105	104
320-71415-19	BH20210317-2 NORTH 25	96	96	103	101	95	95	87	87
320-71415-20	BH20210317-2 NORTH 50	107	96	106	108	102	104	82	80
320-71415-21	BH20210317-2 NORTH 75	105	99	113	112	106	102	96	98
320-71415-22	BH20210317-2 SOUTH 25	78	73	88	81	77	57	75	77
320-71415-23	BH20210317-2 SOUTH 50	108	105	119	116	110	105	107	101
320-71415-24	BH20210317-2 SOUTH 75	103	99	112	111	106	106	100	101
320-71415-25	BH20210317-3 NORTH 25	91	98	111	110	105	101	97	97
320-71415-26	BH20210317-3 NORTH 50	87	79	107	108	97	101	71	69
320-71415-27	BH20210317-3 NORTH 75	110	98	108	111	105	100	93	96
320-71415-28	BH20210317-3 SOUTH 25	96	98	108	109	106	99	94	97

Eurofins TestAmerica, Sacramento

# Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOs (25-150)	d5NEFOS (25-150)
320-71415-29	BH20210317-3 SOUTH 50	107	93	109	110	101	101	91	96
320-71415-30	BH20210317-3 SOUTH 75	125	90	116	109	110	110	103	104
LCS 320-472921/2-A	Lab Control Sample	123	106	113	111	107	102	105	107
LCS 320-472925/2-A	Lab Control Sample	111	94	117	115	111	109	102	109
LCSD 320-472921/3-A	Lab Control Sample Dup	114	103	115	112	111	104	105	109
LCSD 320-472925/3-A	Lab Control Sample Dup	98	98	104	98	99	95	97	100
MB 320-472921/1-A	Method Blank	112	105	112	108	105	103	106	108
MB 320-472925/1-A	Method Blank	127	109	141	133	131	130	125	130
Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
		115	101						
320-71415-10	BH20210317-3RAW	103	102						
320-71415-11	BH20210317-PRE-GAC	112	107						
320-71415-12	BH20210317-POST GAC	117	117						
320-71415-13	BH20210317-1 NORTH-25	116	109						
320-71415-14	BH20210317-1 NORTH-50	120	110						
320-71415-15	BH20210317-1 NORTH-75	113	107						
320-71415-16	BH20210317-1 SOUTH-25	118	117						
320-71415-17	BH20210317-1 SOUTH-50	114	112						
320-71415-18	BH20210317-1 SOUTH 75	106	99						
320-71415-19	BH20210317-2 NORTH 25	117	104						
320-71415-20	BH20210317-2 NORTH 50	114	107						
320-71415-21	BH20210317-2 NORTH 75	88	79						
320-71415-22	BH20210317-2 SOUTH 25	112	111						
320-71415-23	BH20210317-2 SOUTH 50	115	110						
320-71415-24	BH20210317-3 NORTH 25	115	112						
320-71415-25	BH20210317-3 NORTH 50	112	105						
320-71415-26	BH20210317-3 NORTH 75	108	107						
320-71415-27	BH20210317-3 SOUTH 25	109	104						
320-71415-28	BH20210317-3 SOUTH 50	110	109						
320-71415-29	BH20210317-3 SOUTH 75	111	104						
320-71415-30	BH20210317-3 RAW	117	101						
LCS 320-472921/2-A	Lab Control Sample	110	108						
LCS 320-472925/2-A	Lab Control Sample	102	101						
LCSD 320-472921/3-A	Lab Control Sample Dup	116	112						
LCSD 320-472925/3-A	Lab Control Sample Dup	114	111						
MB 320-472921/1-A	Method Blank	112	105						
MB 320-472925/1-A	Method Blank	138	130						

### Surrogate Legend

PFBA = 13C4 PFBA  
 PFPeA = 13C5 PFPeA  
 PFHxA = 13C2 PFHxA  
 C4PFHA = 13C4 PFHpA  
 PFOA = 13C4 PFOA  
 PFNA = 13C5 PFNA  
 PFDA = 13C2 PFDA  
 PFUnA = 13C2 PFUnA  
 PFDoA = 13C2 PFDoA  
 PFTDA = 13C2 PFTeDA

# Isotope Dilution Summary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

C3PFBS = 13C3 PFBS

PFHxS = 18O2 PFHxS

PFOS = 13C4 PFOS

PFOSA = 13C8 FOSA

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID:** MB 320-472921/1-A

**Matrix:** Water

**Analysis Batch:** 473959

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 472921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorotridecanoic acid (PFTriA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
6:2 FTS	ND		5.0		ng/L	03/22/21 18:55	03/25/21 02:54		1
8:2 FTS	ND		2.0		ng/L	03/22/21 18:55	03/25/21 02:54		1

Isotope Dilution	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	114		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C5 PFPeA	112		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C2 PFHxA	113		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C4 PFHpA	109		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C4 PFOA	117		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C5 PFNA	113		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C2 PFDA	112		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C2 PFUnA	106		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C2 PFDoA	112		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C2 PFTeDA	105		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C3 PFBS	112		25 - 150	03/22/21 18:55	03/25/21 02:54	1
18O2 PFHxS	108		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C4 PFOS	105		25 - 150	03/22/21 18:55	03/25/21 02:54	1
13C8 FOSA	103		25 - 150	03/22/21 18:55	03/25/21 02:54	1
d3-NMeFOSAA	106		25 - 150	03/22/21 18:55	03/25/21 02:54	1
d5-NEtFOSAA	108		25 - 150	03/22/21 18:55	03/25/21 02:54	1
M2-6:2 FTS	116		25 - 150	03/22/21 18:55	03/25/21 02:54	1
M2-8:2 FTS	112		25 - 150	03/22/21 18:55	03/25/21 02:54	1

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 320-472921/2-A**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 473959**

**Prep Batch: 472921**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Perfluorobutanoic acid (PFBA)	40.0	40.6		ng/L		102	76 - 136	
Perfluoropentanoic acid (PFPeA)	40.0	38.0		ng/L		95	71 - 131	
Perfluorohexanoic acid (PFHxA)	40.0	39.2		ng/L		98	73 - 133	
Perfluoroheptanoic acid (PFHpA)	40.0	39.2		ng/L		98	72 - 132	
Perfluorooctanoic acid (PFOA)	40.0	35.3		ng/L		88	70 - 130	
Perfluorononanoic acid (PFNA)	40.0	37.0		ng/L		93	75 - 135	
Perfluorodecanoic acid (PFDA)	40.0	37.4		ng/L		93	76 - 136	
Perfluoroundecanoic acid (PFUnA)	40.0	36.8		ng/L		92	68 - 128	
Perfluorododecanoic acid (PFDa)	40.0	36.0		ng/L		90	71 - 131	
Perfluorotridecanoic acid (PFTriA)	40.0	28.5		ng/L		71	71 - 131	
Perfluorotetradecanoic acid (PFTeA)	40.0	40.8		ng/L		102	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	35.4	32.9		ng/L		93	67 - 127	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.3		ng/L		89	59 - 119	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.7		ng/L		99	76 - 136	
Perfluorooctanesulfonic acid (PFOS)	37.1	38.0		ng/L		102	70 - 130	
Perfluorodecanesulfonic acid (PFDS)	38.6	35.4		ng/L		92	71 - 131	
Perfluorooctanesulfonamide (FOSA)	40.0	41.4		ng/L		103	73 - 133	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	40.0	39.2		ng/L		98	76 - 136	
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	40.0	38.0		ng/L		95	76 - 136	
6:2 FTS		37.9		ng/L		90	59 - 175	
8:2 FTS		38.3		ng/L		96	75 - 135	

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	111		25 - 150
13C5 PFPeA	110		25 - 150
13C2 PFHxA	110		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	117		25 - 150
13C5 PFNA	117		25 - 150
13C2 PFDA	101		25 - 150
13C2 PFUnA	98		25 - 150
13C2 PFDoA	123		25 - 150
13C2 PFTeDA	106		25 - 150
13C3 PFBS	113		25 - 150
18O2 PFHxS	111		25 - 150
13C4 PFOS	107		25 - 150
13C8 FOSA	102		25 - 150
d3-NMeFOSAA	105		25 - 150
d5-NEtFOSAA	107		25 - 150

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 320-472921/2-A**

**Matrix: Water**

**Analysis Batch: 473959**

<b>Isotope Dilution</b>	<b>LCS</b>	<b>LCS</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
M2-6:2 FTS			111		25 - 150
M2-8:2 FTS			104		25 - 150

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 472921**

**Lab Sample ID: LCSD 320-472921/3-A**

**Matrix: Water**

**Analysis Batch: 473959**

<b>Analyte</b>	<b>Spike Added</b>	<b>LCSD</b>	<b>LCSD</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec.</b>	<b>RPD</b>	<b>Limit</b>
		<b>Result</b>	<b>Qualifier</b>				<b>Limits</b>		
Perfluorobutanoic acid (PFBA)	40.0	39.1		ng/L		98	76 - 136	4	30
Perfluoropentanoic acid (PFPeA)	40.0	37.7		ng/L		94	71 - 131	1	30
Perfluorohexanoic acid (PFHxA)	40.0	39.2		ng/L		98	73 - 133	0	30
Perfluoroheptanoic acid (PFHpA)	40.0	36.8		ng/L		92	72 - 132	6	30
Perfluoroctanoic acid (PFOA)	40.0	36.4		ng/L		91	70 - 130	3	30
Perfluorononanoic acid (PFNA)	40.0	37.4		ng/L		94	75 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	42.7		ng/L		107	76 - 136	13	30
Perfluoroundecanoic acid (PFUnA)	40.0	33.4		ng/L		84	68 - 128	10	30
Perfluorododecanoic acid (PFDa)	40.0	37.4		ng/L		94	71 - 131	4	30
Perfluorotridecanoic acid (PFTriA)	40.0	39.9	*1	ng/L		100	71 - 131	33	30
Perfluorotetradecanoic acid (PFTeA)	40.0	37.2		ng/L		93	70 - 130	9	30
Perfluorobutanesulfonic acid (PFBS)	35.4	32.2		ng/L		91	67 - 127	2	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.5		ng/L		89	59 - 119	1	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.7		ng/L		96	76 - 136	3	30
Perfluoroctanesulfonic acid (PFOS)	37.1	35.9		ng/L		97	70 - 130	6	30
Perfluorodecanesulfonic acid (PFDs)	38.6	34.7		ng/L		90	71 - 131	2	30
Perfluoroctanesulfonamide (FOSA)	40.0	40.8		ng/L		102	73 - 133	1	30
N-methylperfluorooctanesulfonic acid (NMeFOSAA)	40.0	39.1		ng/L		98	76 - 136	0	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.9		ng/L		95	76 - 136	0	30
6:2 FTS		37.9		ng/L		92	59 - 175	3	30
8:2 FTS		38.3		ng/L		96	75 - 135	0	30

<b>Isotope Dilution</b>	<b>LCS</b>	<b>LCS</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
13C4 PFBA			115		25 - 150
13C5 PFPeA			115		25 - 150
13C2 PFHxA			114		25 - 150
13C4 PFHpA			113		25 - 150
13C4 PFOA			118		25 - 150
13C5 PFNA			113		25 - 150
13C2 PFDA			103		25 - 150
13C2 PFUnA			116		25 - 150
13C2 PFDa			114		25 - 150

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID:** LCSD 320-472921/3-A

**Client Sample ID:** Lab Control Sample Dup

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 473959

**Prep Batch:** 472921

Isotope Dilution	LCSD	LCSD	
	%Recovery	Qualifier	Limits
13C2 PFTeDA	103		25 - 150
13C3 PFBS	115		25 - 150
18O2 PFHxA	112		25 - 150
13C4 PFOS	111		25 - 150
13C8 FOSA	104		25 - 150
d3-NMeFOSAA	105		25 - 150
d5-NEtFOSAA	109		25 - 150
M2-6:2 FTS	110		25 - 150
M2-8:2 FTS	108		25 - 150

**Lab Sample ID:** MB 320-472925/1-A

**Client Sample ID:** Method Blank

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 473944

**Prep Batch:** 472925

Analyte	MB	MB	Dil Fac						
	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed
Perfluorobutanoic acid (PFBA)	ND		1	5.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluoropentanoic acid (PFPeA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorohexanoic acid (PFHxA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluoroheptanoic acid (PFHpA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorooctanoic acid (PFOA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorononanoic acid (PFNA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorodecanoic acid (PFDA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluoroundecanoic acid (PFUnA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorododecanoic acid (PFDoA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorotridecanoic acid (PFTriA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorotetradecanoic acid (PFTeA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorobutanesulfonic acid (PFBS)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorohexanesulfonic acid (PFHxS)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorooctanesulfonic acid (PFOS)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluorodecanesulfonic acid (PFDS)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
Perfluoroctanesulfonamide (FOSA)	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1	5.0		ng/L	03/22/21 19:23	03/24/21 21:42	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1	5.0		ng/L	03/22/21 19:23	03/24/21 21:42	
6:2 FTS	ND		1	5.0		ng/L	03/22/21 19:23	03/24/21 21:42	
8:2 FTS	ND		1	2.0		ng/L	03/22/21 19:23	03/24/21 21:42	

Isotope Dilution	MB	MB	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits		
13C4 PFBA	134		25 - 150		1
13C5 PFPeA	136		25 - 150		1
13C2 PFHxA	140		25 - 150		1
13C4 PFHpA	137		25 - 150		1
13C4 PFOA	143		25 - 150		1
13C5 PFNA	143		25 - 150		1
13C2 PFDA	142		25 - 150		1
13C2 PFUnA	141		25 - 150		1
13C2 PFDoA	127		25 - 150		1

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID:** MB 320-472925/1-A

**Matrix:** Water

**Analysis Batch:** 473944

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 472925

Isotope Dilution	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFTeDA	109		25 - 150			03/22/21 19:23	03/24/21 21:42	1
13C3 PFBS	141		25 - 150			03/22/21 19:23	03/24/21 21:42	1
18O2 PFHxS	133		25 - 150			03/22/21 19:23	03/24/21 21:42	1
13C4 PFOS	131		25 - 150			03/22/21 19:23	03/24/21 21:42	1
13C8 FOSA	130		25 - 150			03/22/21 19:23	03/24/21 21:42	1
d3-NMeFOSAA	125		25 - 150			03/22/21 19:23	03/24/21 21:42	1
d5-NEtFOSAA	130		25 - 150			03/22/21 19:23	03/24/21 21:42	1
M2-6:2 FTS	138		25 - 150			03/22/21 19:23	03/24/21 21:42	1
M2-8:2 FTS	130		25 - 150			03/22/21 19:23	03/24/21 21:42	1

**Lab Sample ID:** LCS 320-472925/2-A

**Matrix:** Water

**Analysis Batch:** 473944

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 472925

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Perfluorobutanoic acid (PFBA)	40.0	39.4		ng/L	99	76 - 136		
Perfluoropentanoic acid (PFPeA)	40.0	37.3		ng/L	93	71 - 131		
Perfluorohexanoic acid (PFHxA)	40.0	37.9		ng/L	95	73 - 133		
Perfluoroheptanoic acid (PFHpA)	40.0	38.0		ng/L	95	72 - 132		
Perfluorooctanoic acid (PFOA)	40.0	31.6		ng/L	79	70 - 130		
Perfluorononanoic acid (PFNA)	40.0	37.5		ng/L	94	75 - 135		
Perfluorodecanoic acid (PFDA)	40.0	36.8		ng/L	92	76 - 136		
Perfluoroundecanoic acid (PFUnA)	40.0	33.0		ng/L	82	68 - 128		
Perfluorododecanoic acid (PFDa)	40.0	41.3		ng/L	103	71 - 131		
Perfluorotridecanoic acid (PFTriA)	40.0	39.4		ng/L	99	71 - 131		
Perfluorotetradecanoic acid (PFTeA)	40.0	41.4		ng/L	103	70 - 130		
Perfluorobutanesulfonic acid (PFBS)	35.4	33.3		ng/L	94	67 - 127		
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.4		ng/L	89	59 - 119		
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.6		ng/L	99	76 - 136		
Perfluorooctanesulfonic acid (PFOS)	37.1	37.9		ng/L	102	70 - 130		
Perfluorodecanesulfonic acid (PFDS)	38.6	35.6		ng/L	92	71 - 131		
Perfluorooctanesulfonamide (FOSA)	40.0	40.8		ng/L	102	73 - 133		
N-methylperfluorooctanesulfonic acid (NMeFOSAA)	40.0	40.7		ng/L	102	76 - 136		
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.6		ng/L	96	76 - 136		
6:2 FTS	37.9	34.5		ng/L	91	59 - 175		
8:2 FTS	38.3	36.3		ng/L	95	75 - 135		

Isotope Dilution	LCS	LCS	%Recovery	Qualifier	Limits
13C4 PFBA	119		25 - 150		
13C5 PFPeA	117		25 - 150		

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID:** LCS 320-472925/2-A

**Matrix:** Water

**Analysis Batch:** 473944

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 472925

Isotope Dilution	LCS	LCS	
	%Recovery	Qualifier	Limits
13C2 PFHxA	119		25 - 150
13C4 PFHpA	114		25 - 150
13C4 PFOA	124		25 - 150
13C5 PFNA	124		25 - 150
13C2 PFDA	115		25 - 150
13C2 PFUnA	116		25 - 150
13C2 PFDoA	111		25 - 150
13C2 PFTeDA	94		25 - 150
13C3 PFBS	117		25 - 150
18O2 PFHxS	115		25 - 150
13C4 PFOS	111		25 - 150
13C8 FOSA	109		25 - 150
d3-NMeFOSAA	102		25 - 150
d5-NEtFOSAA	109		25 - 150
M2-6:2 FTS	117		25 - 150
M2-8:2 FTS	111		25 - 150

**Lab Sample ID:** LCSD 320-472925/3-A

**Matrix:** Water

**Analysis Batch:** 473944

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Total/NA

**Prep Batch:** 472925

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	38.9		ng/L		97	76 - 136	1	30
Perfluoropentanoic acid (PFPeA)	40.0	37.0		ng/L		93	71 - 131	1	30
Perfluorohexanoic acid (PFHxA)	40.0	38.4		ng/L		96	73 - 133	1	30
Perfluoroheptanoic acid (PFHpA)	40.0	37.0		ng/L		92	72 - 132	3	30
Perfluorooctanoic acid (PFOA)	40.0	36.5		ng/L		91	70 - 130	14	30
Perfluorononanoic acid (PFNA)	40.0	34.8		ng/L		87	75 - 135	7	30
Perfluorodecanoic acid (PFDA)	40.0	40.1		ng/L		100	76 - 136	9	30
Perfluoroundecanoic acid (PFUnA)	40.0	34.6		ng/L		87	68 - 128	5	30
Perfluorododecanoic acid (PFDoA)	40.0	39.8		ng/L		99	71 - 131	4	30
Perfluorotridecanoic acid (PFTriA)	40.0	35.0		ng/L		87	71 - 131	12	30
Perfluorotetradecanoic acid (PFTeA)	40.0	38.9		ng/L		97	70 - 130	6	30
Perfluorobutanesulfonic acid (PFBS)	35.4	32.4		ng/L		92	67 - 127	3	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.3		ng/L		91	59 - 119	3	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.0		ng/L		97	76 - 136	2	30
Perfluorooctanesulfonic acid (PFOS)	37.1	37.0		ng/L		100	70 - 130	3	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.0		ng/L		91	71 - 131	2	30
Perfluorooctanesulfonamide (FOSA)	40.0	41.4		ng/L		103	73 - 133	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	38.3		ng/L		96	76 - 136	6	30

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID:** LCSD 320-472925/3-A

**Client Sample ID:** Lab Control Sample Dup

**Matrix:** Water

**Prep Type:** Total/NA

**Analysis Batch:** 473944

**Prep Batch:** 472925

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	Limit
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	38.6		ng/L	97	76 - 136	0	30
6:2 FTS		37.9	36.5	ng/L	96	59 - 175	6	30
8:2 FTS		38.3	36.8	ng/L	96	75 - 135	1	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits					
13C4 PFBA	107		25 - 150					
13C5 PFPeA	102		25 - 150					
13C2 PFHxA	104		25 - 150					
13C4 PFHpA	105		25 - 150					
13C4 PFOA	107		25 - 150					
13C5 PFNA	113		25 - 150					
13C2 PFDA	95		25 - 150					
13C2 PFUnA	105		25 - 150					
13C2 PFDaO	98		25 - 150					
13C2 PFTeDA	98		25 - 150					
13C3 PFBS	104		25 - 150					
18O2 PFHxS	98		25 - 150					
13C4 PFOS	99		25 - 150					
13C8 FOSA	95		25 - 150					
d3-NMeFOSAA	97		25 - 150					
d5-NEtFOSAA	100		25 - 150					
M2-6:2 FTS	102		25 - 150					
M2-8:2 FTS	101		25 - 150					

# QC Association Summary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

## LCMS

### Prep Batch: 472921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-71415-10	BH20210317-3RAW	Total/NA	Water	3535	1
320-71415-11	BH20210317-PRE-GAC	Total/NA	Water	3535	2
320-71415-12	BH20210317-POST GAC	Total/NA	Water	3535	3
320-71415-13	BH20210317-1 NORTH-25	Total/NA	Water	3535	4
320-71415-14	BH20210317-1 NORTH-50	Total/NA	Water	3535	5
320-71415-15	BH20210317-1 NORTH-75	Total/NA	Water	3535	6
320-71415-16	BH20210317-1 SOUTH-25	Total/NA	Water	3535	7
320-71415-17	BH20210317-1 SOUTH-50	Total/NA	Water	3535	8
320-71415-18	BH20210317-1 SOUTH 75	Total/NA	Water	3535	9
320-71415-19	BH20210317-2 NORTH 25	Total/NA	Water	3535	10
320-71415-20	BH20210317-2 NORTH 50	Total/NA	Water	3535	11
320-71415-21	BH20210317-2 NORTH 75	Total/NA	Water	3535	12
320-71415-22	BH20210317-2 SOUTH 25	Total/NA	Water	3535	13
320-71415-23	BH20210317-2 SOUTH 50	Total/NA	Water	3535	14
320-71415-24	BH20210317-2 SOUTH 75	Total/NA	Water	3535	15
MB 320-472921/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-472921/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-472921/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Prep Batch: 472925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-71415-25	BH20210317-3 NORTH 25	Total/NA	Water	3535	14
320-71415-26	BH20210317-3 NORTH 50	Total/NA	Water	3535	15
320-71415-27	BH20210317-3 NORTH 75	Total/NA	Water	3535	
320-71415-28	BH20210317-3 SOUTH 25	Total/NA	Water	3535	
320-71415-29	BH20210317-3 SOUTH 50	Total/NA	Water	3535	
320-71415-30	BH20210317-3 SOUTH 75	Total/NA	Water	3535	
MB 320-472925/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-472925/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-472925/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 473944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-71415-25	BH20210317-3 NORTH 25	Total/NA	Water	537 (modified)	472925
320-71415-26	BH20210317-3 NORTH 50	Total/NA	Water	537 (modified)	472925
320-71415-27	BH20210317-3 NORTH 75	Total/NA	Water	537 (modified)	472925
320-71415-28	BH20210317-3 SOUTH 25	Total/NA	Water	537 (modified)	472925
320-71415-29	BH20210317-3 SOUTH 50	Total/NA	Water	537 (modified)	472925
320-71415-30	BH20210317-3 SOUTH 75	Total/NA	Water	537 (modified)	472925
MB 320-472925/1-A	Method Blank	Total/NA	Water	537 (modified)	472925
LCS 320-472925/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	472925
LCSD 320-472925/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	472925

### Analysis Batch: 473959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-71415-10	BH20210317-3RAW	Total/NA	Water	537 (modified)	472921
320-71415-11	BH20210317-PRE-GAC	Total/NA	Water	537 (modified)	472921
320-71415-12	BH20210317-POST GAC	Total/NA	Water	537 (modified)	472921
320-71415-13	BH20210317-1 NORTH-25	Total/NA	Water	537 (modified)	472921
320-71415-14	BH20210317-1 NORTH-50	Total/NA	Water	537 (modified)	472921
320-71415-15	BH20210317-1 NORTH-75	Total/NA	Water	537 (modified)	472921

Eurofins TestAmerica, Sacramento

# QC Association Summary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

## LCMS (Continued)

### Analysis Batch: 473959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-71415-16	BH20210317-1 SOUTH-25	Total/NA	Water	537 (modified)	472921
320-71415-17	BH20210317-1 SOUTH-50	Total/NA	Water	537 (modified)	472921
320-71415-18	BH20210317-1 SOUTH 75	Total/NA	Water	537 (modified)	472921
320-71415-19	BH20210317-2 NORTH 25	Total/NA	Water	537 (modified)	472921
320-71415-20	BH20210317-2 NORTH 50	Total/NA	Water	537 (modified)	472921
320-71415-21	BH20210317-2 NORTH 75	Total/NA	Water	537 (modified)	472921
320-71415-22	BH20210317-2 SOUTH 25	Total/NA	Water	537 (modified)	472921
320-71415-23	BH20210317-2 SOUTH 50	Total/NA	Water	537 (modified)	472921
320-71415-24	BH20210317-2 SOUTH 75	Total/NA	Water	537 (modified)	472921
MB 320-472921/1-A	Method Blank	Total/NA	Water	537 (modified)	472921
LCS 320-472921/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	472921
LCSD 320-472921/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	472921

# Lab Chronicle

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-3RAW**

**Lab Sample ID: 320-71415-10**

Matrix: Water

Date Collected: 03/17/21 09:25

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			262.8 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 03:21	RS1	TAL SAC

**Client Sample ID: BH20210317-PRE-GAC**

**Lab Sample ID: 320-71415-11**

Matrix: Water

Date Collected: 03/17/21 08:55

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			267.1 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 03:30	RS1	TAL SAC

**Client Sample ID: BH20210317-POST GAC**

**Lab Sample ID: 320-71415-12**

Matrix: Water

Date Collected: 03/17/21 09:09

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.7 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 03:40	RS1	TAL SAC

**Client Sample ID: BH20210317-1 NORTH-25**

**Lab Sample ID: 320-71415-13**

Matrix: Water

Date Collected: 03/17/21 09:34

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274.9 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 03:49	RS1	TAL SAC

**Client Sample ID: BH20210317-1 NORTH-50**

**Lab Sample ID: 320-71415-14**

Matrix: Water

Date Collected: 03/17/21 09:36

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.9 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 03:58	RS1	TAL SAC

**Client Sample ID: BH20210317-1 NORTH-75**

**Lab Sample ID: 320-71415-15**

Matrix: Water

Date Collected: 03/17/21 09:37

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.8 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 04:07	RS1	TAL SAC

Eurofins TestAmerica, Sacramento

# Lab Chronicle

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-1 SOUTH-25**

**Lab Sample ID: 320-71415-16**

Matrix: Water

Date Collected: 03/17/21 09:43

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			280.2 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 04:16	RS1	TAL SAC

**Client Sample ID: BH20210317-1 SOUTH-50**

**Lab Sample ID: 320-71415-17**

Matrix: Water

Date Collected: 03/17/21 09:45

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.4 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 04:43	RS1	TAL SAC

**Client Sample ID: BH20210317-1 SOUTH 75**

**Lab Sample ID: 320-71415-18**

Matrix: Water

Date Collected: 03/17/21 09:46

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 04:53	RS1	TAL SAC

**Client Sample ID: BH20210317-2 NORTH 25**

**Lab Sample ID: 320-71415-19**

Matrix: Water

Date Collected: 03/17/21 09:53

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			283 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 05:02	RS1	TAL SAC

**Client Sample ID: BH20210317-2 NORTH 50**

**Lab Sample ID: 320-71415-20**

Matrix: Water

Date Collected: 03/17/21 09:53

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			285.7 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 05:11	RS1	TAL SAC

**Client Sample ID: BH20210317-2 NORTH 75**

**Lab Sample ID: 320-71415-21**

Matrix: Water

Date Collected: 03/17/21 09:56

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			276.1 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 05:20	RS1	TAL SAC

Eurofins TestAmerica, Sacramento

# Lab Chronicle

Client: New York State D.E.C.

Job ID: 320-71415-2

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-2 SOUTH 25**

**Lab Sample ID: 320-71415-22**

**Matrix: Water**

Date Collected: 03/17/21 10:04

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.3 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 05:29	RS1	TAL SAC

**Client Sample ID: BH20210317-2 SOUTH 50**

**Lab Sample ID: 320-71415-23**

**Matrix: Water**

Date Collected: 03/17/21 10:05

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.3 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 05:38	RS1	TAL SAC

**Client Sample ID: BH20210317-2 SOUTH 75**

**Lab Sample ID: 320-71415-24**

**Matrix: Water**

Date Collected: 03/17/21 10:08

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.7 mL	10.00 mL	472921	03/22/21 18:55	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473959	03/25/21 05:47	RS1	TAL SAC

**Client Sample ID: BH20210317-3 NORTH 25**

**Lab Sample ID: 320-71415-25**

**Matrix: Water**

Date Collected: 03/17/21 10:15

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			275.2 mL	10.00 mL	472925	03/22/21 19:23	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473944	03/24/21 22:09	K1S	TAL SAC

**Client Sample ID: BH20210317-3 NORTH 50**

**Lab Sample ID: 320-71415-26**

**Matrix: Water**

Date Collected: 03/17/21 10:16

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			279.7 mL	10.00 mL	472925	03/22/21 19:23	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473944	03/24/21 22:19	K1S	TAL SAC

**Client Sample ID: BH20210317-3 NORTH 75**

**Lab Sample ID: 320-71415-27**

**Matrix: Water**

Date Collected: 03/17/21 10:18

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			273.3 mL	10.00 mL	472925	03/22/21 19:23	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473944	03/24/21 22:28	K1S	TAL SAC

Eurofins TestAmerica, Sacramento

# Lab Chronicle

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

**Client Sample ID: BH20210317-3 SOUTH 25**

**Lab Sample ID: 320-71415-28**

**Matrix: Water**

Date Collected: 03/17/21 10:38

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.9 mL	10.00 mL	472925	03/22/21 19:23	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473944	03/24/21 22:37	K1S	TAL SAC

**Client Sample ID: BH20210317-3 SOUTH 50**

**Lab Sample ID: 320-71415-29**

**Matrix: Water**

Date Collected: 03/17/21 10:39

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			281.3 mL	10.00 mL	472925	03/22/21 19:23	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473944	03/24/21 22:46	K1S	TAL SAC

**Client Sample ID: BH20210317-3 SOUTH 75**

**Lab Sample ID: 320-71415-30**

**Matrix: Water**

Date Collected: 03/17/21 10:40

Date Received: 03/18/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			277.3 mL	10.00 mL	472925	03/22/21 19:23	VP	TAL SAC
Total/NA	Analysis	537 (modified)		1			473944	03/24/21 22:55	K1S	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: 320-71415-2

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	04-01-21

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
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

## Method Summary

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

Job ID: 320-71415-2

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Sample Summary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-71415-10	BH20210317-3RAW	Water	03/17/21 09:25	03/18/21 09:50	
320-71415-11	BH20210317-PRE-GAC	Water	03/17/21 08:55	03/18/21 09:50	
320-71415-12	BH20210317-POST GAC	Water	03/17/21 09:09	03/18/21 09:50	
320-71415-13	BH20210317-1 NORTH-25	Water	03/17/21 09:34	03/18/21 09:50	
320-71415-14	BH20210317-1 NORTH-50	Water	03/17/21 09:36	03/18/21 09:50	
320-71415-15	BH20210317-1 NORTH-75	Water	03/17/21 09:37	03/18/21 09:50	
320-71415-16	BH20210317-1 SOUTH-25	Water	03/17/21 09:43	03/18/21 09:50	
320-71415-17	BH20210317-1 SOUTH-50	Water	03/17/21 09:45	03/18/21 09:50	
320-71415-18	BH20210317-1 SOUTH 75	Water	03/17/21 09:46	03/18/21 09:50	
320-71415-19	BH20210317-2 NORTH 25	Water	03/17/21 09:53	03/18/21 09:50	
320-71415-20	BH20210317-2 NORTH 50	Water	03/17/21 09:53	03/18/21 09:50	
320-71415-21	BH20210317-2 NORTH 75	Water	03/17/21 09:56	03/18/21 09:50	
320-71415-22	BH20210317-2 SOUTH 25	Water	03/17/21 10:04	03/18/21 09:50	
320-71415-23	BH20210317-2 SOUTH 50	Water	03/17/21 10:05	03/18/21 09:50	
320-71415-24	BH20210317-2 SOUTH 75	Water	03/17/21 10:08	03/18/21 09:50	
320-71415-25	BH20210317-3 NORTH 25	Water	03/17/21 10:15	03/18/21 09:50	
320-71415-26	BH20210317-3 NORTH 50	Water	03/17/21 10:16	03/18/21 09:50	
320-71415-27	BH20210317-3 NORTH 75	Water	03/17/21 10:18	03/18/21 09:50	
320-71415-28	BH20210317-3 SOUTH 25	Water	03/17/21 10:38	03/18/21 09:50	
320-71415-29	BH20210317-3 SOUTH 50	Water	03/17/21 10:39	03/18/21 09:50	
320-71415-30	BH20210317-3 SOUTH 75	Water	03/17/21 10:40	03/18/21 09:50	

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

## Albany

### Chain of Custody Record

**#224**

<b>Client Information</b>		Analysis Requested										
Client Contact: Benjamin Powers Company: ARCADIS U.S. Inc.	Sampler: <i>Ben Powers</i> Phone: 315 - 412 - 3474 PWSID:	Lab PM: Stone, Judy L E-Mail: Judy.Stone@Eurofinset.com	Carrier Tracking No(s): State of Origin		COC No: Page:							
Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-402-9813(Tel) Email: benjamin.powers@arcadis.com Project Name: Stewart ANGB - Butterhill #336889 Site:	TAT Requested (days): <i>5-7 days</i>	Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	PO #	Callout ID: 137349	WO #	Total Number of Contaminants	Preservation Codes:					
						320-71415 Chain of Custody	<ul style="list-style-type: none"> <li>- HCl M - Hexane</li> <li>- NaOH N - None</li> <li>- Zn Oxalate O - NaOAO2</li> <li>- Nitric Acid P - NaHSO4</li> <li>- NaHSO3 Q - Na2SO3</li> <li>- MeOH R - Na2S2O3</li> <li>- Ammonium S - H2SO4</li> <li>- Ascorbic Acid T - TSP Dodecahydrate</li> <li>- Acetone U - Acetone</li> <li>- Di-Water V - MCAA</li> <li>- EDTA W - pH 4.5</li> <li>- EDA Z - other (specify)</li> <li>Other:</li> </ul>					
							Special Instructions/Note:					
Field Filtered Sample (Yes or No)												
Perform MSD/MSD (Yes or No)												
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab, B=Tissue, A=Air)	Matrix (W=water, S=solid, C=cassette), B=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)		Perform MSD/MSD (Yes or No)		Special Instructions/Note:	
Bit 20210317 - PRE GRAC		3/17	0655	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - 1 Mid		3/17	0934	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - 1 POST		3/17	0948	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - 2 MID		3/17	0957	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - 2 POST		3/17	1009	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - 3 MID		3/17	1020	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - 3 POST GRAC		3/17	1042	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - POST GRAC (Drip)		3/17	0403	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - POST GRAC MS		3/17	0905	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Bit 20210317 - POST GRAC MSD		3/17	0907	G	Water	NN	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Possible Hazard Identification												
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological												
Deliverable Requested: I, II, III, IV. Other (specify)												
Empty Kit Relinquished by:												
Relinquished by:		Date:	Time:	Method of Shipment:		Date/Time:		Company:		Date/Time:		
<i>Benjamin Powers</i>		3/17/2021	12:40	Arrived:		3/17/21		Company		3/17/21		
Relinquished by:		Date/Time:	Date/Time:	Received by:		Received by:		Company:		Company:		
<i>Ben Zoeh</i>		3/17/21	17:00	<i>Ben Zoeh</i>		<i>Ben Zoeh</i>		Company		Company		
Custody Seals intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <i>1449762</i>		Cooler Temperature(s) °C and Other Remarks: <i>1449762</i>		Archive For Months:						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab												
Special Instructions/QC Requirements:												

**Aldany** #224 Chain of Custody Record

Client Information		Sampler	Ben Powers	Lab PM	Carrier Tracking No(s)	CCG No	
Client Contact:	Benjamin Powers	Phone:	315-412-3474	E-Mail:	Judy Stone@EurofinsTest.com	480-153251-34763.2	
Company:	ARCADIS U.S. Inc	PWSID	Analysis Requested			State of Origin	
Address:	855 Route 146 Suite 210	Due Date Requested:	TAT Requested (days): <i>Standard</i>				Page 2 of 4
City:	Clifton Park		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Job #
State, Zip:	NY, 12065		PO #:				
Phone:	518-402-9813(Tel)		Callout ID: 137349				
Email:	benjamin.powers@arcadis.com		WO #:				
Project Name:	Stewart ANGB - Butterhill #336089		Project #				
Site:			SSOW#:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grav, B=BS, A=Au)	Matrix (W=water, S=solid, O=organic, A=air)	Preservation Code:	Total Number of Contaminants
BH 20210317-1RAB	2/17	09:35	G	Water	W		2
BH 20210317-2RAB		08:55	G	Water	W		2
BH 20210317-3RAB		09:09	G	Water	W		2
BH 20210317-POST GAC		09:34	G	Water	W		2
BH 20210317-1 NORTH-25		09:36	G	Water	W		2
BH 20210317-1 NORTH-50		09:37	G	Water	W		2
BH 20210317-1 SOUTH-25		09:43	G	Water	W		2
BH 20210317-1 SOUTH-50		09:45	G	Water	W		2
BH 20210317-1 SOUTH-75		09:46	G	Water	W		2
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							<b>Sample Disposal / A fee may be assessed if samples are retained longer than 1 month)</b>
Deliverable Requested I, II, III, IV. Other (specify)							<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months
Empty Kit Relinquished by:							Method of Shipment
Relinquished by: <i>Judith Powers</i>	Date/Time 3/17/21 12:40	Company Arcadis Company	Received by: <i>John Loechler</i>	Date/Time 3/17/21 13:45	Company EPA Sac		
Custody Seals intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: 14499762	Delivery Date/Time 3/17/21 17:00	Received by: <i>John Loechler</i>	Date/Time 03/18/21 09:50	Company EPA Sac		
Special Instructions/QC Requirements							
							Cooler Temperature(s) °C and Other Remarks 0.5 o +

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

## #224 Chain of Custody Record

eurofins | Environment Testing America

<b>Client Information</b>		Analysis Requested												
Sampler	Ben Powers	Lab FM:	Stone, Judy L	Carrier Tracking No(s)	COC No: 480-158251-34763 3									
Client Contact	Phone: 215-412-3479	E-Mail:	Judy.Stone@EurofinsSet.com	State of Origin	Page: 3 of 4									
Company	PWSID	ARCADIS U.S. Inc	Job #											
Address:	855 Route 146 Suite 210	Due Date Requested:												
City:	Clifton Park	TAT Requested (days):												
State/Zip:	NY, 12065	Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
Phone:	518-402-9813 (Tel)	PO #												
Email:	benjamin.powers@arcadis.com	Callout ID: 137349												
Project Name	Stewart ANGB - Butterhill #336089	WO #												
Site:	SSOW#	Project #:												
Perform MSDS/Ves or No												Total Number of Containers		
PPC - IMA - PPA - Standard List (21 Analytes) - SAC												Preservation Codes:		
PFA - DL - DW - PFA - UCMR List (6)												A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - H2SO4 I - Ce J - DI Water K - EDIA L - EDA Other:		
Special Instructions/Note:														
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, B=tissue, A=air)	Field Filtered Sample (Yes or No)	Preservation Code:								
BH 20210317-2 NORTH 25	3/17	0953	G	Water	X								2	
BH 20210317-2 NORTH 50		0953	G	Water	X								2	
BH 20210317-2 NORTH 75		0456	G	Water	X								2	
BH 20210317-2 SOUTH 25		1004	G	Water	X								2	
BH 20210317-2 SOUTH 50		1005	G	Water	X								2	
BH 20210317-2 SOUTH 75		1006	G	Water	X								2	
BH 20210317-3 NORTH 25		1015	G	Water	X								2	
BH 20210317-3 NORTH 50		1016	G	Water	X								2	
BH 20210317-3 NORTH 75		1018	G	Water	X								2	
BH 20210317-3 SOUTH 25		1038	G	Water	X								2	
BH 20210317-3 SOUTH 50		1039	G	Water	X								2	
Possible Hazard Identification												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological												<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV. Other (specify)												Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Date:	Date:	Method of Shipment:										
Relinquished by:		Date/Time:	Company:	Received by	Date/Time:	Company:								
<i>Benjamin Powers</i>	3/17/2021 12:40	ARCADIS	<i>Randy Jackson</i>	3/17/21 12:45	Company									
Relinquished by:	Date/Time:	Company:	Received by	Date/Time:	Company:									
<i>Randy Jackson</i>	3/17/21 1700	Eurofins	<i>Ben Powers</i>	03/18/21 950	Company									
Custody Seal Infect:	Custody Seal No.:	Cooler Temperature(s)°C and Other Remarks												
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1449762	1449764		0.5 0.7										

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

**Albany #224 Chain of Custody Record**

eurofins | Environment Testing America

<b>Client Information</b>		Benn Powers		Carrier Tracking No(s): CCC No 480-158251-34763.4																																																					
Client Contact:	Phone: 315-412-3474	Lab PM: Stone, Judy L.	E-Mail: Judy.Stone@EurofinsSet.com	State of Origin:																																																					
Company: ARCADIS US, Inc	PWSID:			Page: 4 of 4																																																					
Address: 855 Route 146 Suite 210	Due Date Requested:			Job #:																																																					
City: Clifton Park	TAT Requested (days):																																																								
State, Zip: NY, 12065	Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																								
Phone: 518-402-9813(Tel)	PO #:																																																								
Email: benjamin.powers@arcadis.com	Callout ID: 137349																																																								
Project Name: Stewart ANGB - Butterhill #336089	WO #:																																																								
Site:	Project # 48020960																																																								
SSOW#:																																																									
Sample Identification																																																									
<table border="1"> <tr> <td>Sample Date: 3/17/2017</td> <td>Sample Time: 1040 G</td> <td>Sample Type: Water</td> <td>Matrix (Water, S-solid, oil/wax, oil/tissue, Aqueous):</td> <td>Field Filtered Sample (Yes or No):</td> </tr> <tr> <td colspan="2"></td> <td>Preservation Code: <i>WY</i></td> <td colspan="2">PFCs, DAs - PFAs, Standard List (21 Analytes) - SAC</td> </tr> <tr> <td colspan="2"></td> <td></td> <td colspan="2">PFAS, DL-DW - PFAs, UCMR List (6)</td> </tr> <tr> <td colspan="2"></td> <td></td> <td colspan="2">Total Number of Containers: 2</td> </tr> <tr> <td colspan="2"></td> <td></td> <td colspan="2">Special Instructions/Note: <i>100%</i></td> </tr> </table>					Sample Date: 3/17/2017	Sample Time: 1040 G	Sample Type: Water	Matrix (Water, S-solid, oil/wax, oil/tissue, Aqueous):	Field Filtered Sample (Yes or No):			Preservation Code: <i>WY</i>	PFCs, DAs - PFAs, Standard List (21 Analytes) - SAC					PFAS, DL-DW - PFAs, UCMR List (6)					Total Number of Containers: 2					Special Instructions/Note: <i>100%</i>																													
Sample Date: 3/17/2017	Sample Time: 1040 G	Sample Type: Water	Matrix (Water, S-solid, oil/wax, oil/tissue, Aqueous):	Field Filtered Sample (Yes or No):																																																					
		Preservation Code: <i>WY</i>	PFCs, DAs - PFAs, Standard List (21 Analytes) - SAC																																																						
			PFAS, DL-DW - PFAs, UCMR List (6)																																																						
			Total Number of Containers: 2																																																						
			Special Instructions/Note: <i>100%</i>																																																						
<table border="1"> <tr> <td>Possible Hazard Identification</td> <td><input type="checkbox"/> Non-Hazard</td> <td><input type="checkbox"/> Flammable</td> <td><input type="checkbox"/> Skin Irritant</td> <td><input type="checkbox"/> Poison B</td> <td><input type="checkbox"/> Unknown</td> <td><input type="checkbox"/> Radiological</td> <td><input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</td> </tr> <tr> <td>Deliverable Requested: I, II, III, IV, Other (specify)</td> <td colspan="6"></td> <td><input type="checkbox"/> Return To Client</td> <td><input type="checkbox"/> Disposal By Lab</td> </tr> <tr> <td>Empty Kit Relinquished by:</td> <td colspan="6"></td> <td colspan="2">Special Instructions/QC Requirements:</td> </tr> <tr> <td>Relinquished by: <i>Benn Powers</i></td> <td>Date/Time: 3/17/2017</td> <td>Company: <i>Arcadis</i></td> <td>Received by: <i>Judy Stone</i></td> <td>Date/Time: 3/17/2017</td> <td>Company: <i>Eurolabs</i></td> <td>Received by: <i>Judy Stone</i></td> <td>Date/Time: 3/17/2017</td> <td>Company: <i>Eurolabs</i></td> </tr> <tr> <td>Relinquished by: <i>Judy Stone</i></td> <td>Date/Time: 3/18/2017</td> <td>Company: <i>Arcadis</i></td> <td>Received by: <i>Benn Powers</i></td> <td>Date/Time: 3/18/2017</td> <td>Company: <i>Eurolabs</i></td> <td>Received by: <i>Benn Powers</i></td> <td>Date/Time: 3/18/2017</td> <td>Company: <i>Eurolabs</i></td> </tr> <tr> <td>Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> <td>Custody Seal No: 1449762</td> <td colspan="6"></td> <td>Cooler Temperature(s) °C and Other Remarks: 0.5 0.7</td> </tr> </table>					Possible Hazard Identification	<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Deliverable Requested: I, II, III, IV, Other (specify)							<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	Empty Kit Relinquished by:							Special Instructions/QC Requirements:		Relinquished by: <i>Benn Powers</i>	Date/Time: 3/17/2017	Company: <i>Arcadis</i>	Received by: <i>Judy Stone</i>	Date/Time: 3/17/2017	Company: <i>Eurolabs</i>	Received by: <i>Judy Stone</i>	Date/Time: 3/17/2017	Company: <i>Eurolabs</i>	Relinquished by: <i>Judy Stone</i>	Date/Time: 3/18/2017	Company: <i>Arcadis</i>	Received by: <i>Benn Powers</i>	Date/Time: 3/18/2017	Company: <i>Eurolabs</i>	Received by: <i>Benn Powers</i>	Date/Time: 3/18/2017	Company: <i>Eurolabs</i>	Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No: 1449762							Cooler Temperature(s) °C and Other Remarks: 0.5 0.7
Possible Hazard Identification	<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological	<input type="checkbox"/> Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																		
Deliverable Requested: I, II, III, IV, Other (specify)							<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab																																																	
Empty Kit Relinquished by:							Special Instructions/QC Requirements:																																																		
Relinquished by: <i>Benn Powers</i>	Date/Time: 3/17/2017	Company: <i>Arcadis</i>	Received by: <i>Judy Stone</i>	Date/Time: 3/17/2017	Company: <i>Eurolabs</i>	Received by: <i>Judy Stone</i>	Date/Time: 3/17/2017	Company: <i>Eurolabs</i>																																																	
Relinquished by: <i>Judy Stone</i>	Date/Time: 3/18/2017	Company: <i>Arcadis</i>	Received by: <i>Benn Powers</i>	Date/Time: 3/18/2017	Company: <i>Eurolabs</i>	Received by: <i>Benn Powers</i>	Date/Time: 3/18/2017	Company: <i>Eurolabs</i>																																																	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No: 1449762							Cooler Temperature(s) °C and Other Remarks: 0.5 0.7																																																	

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 320-71415-2

**Login Number: 71415**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Nuval, Mark-Anthony M**

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	True		1
The cooler's custody seal, if present, is intact.	True	1449762, 1449764	2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the sample IDs on the containers and the COC.	True		11
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		15
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		



## Environment Testing America



### ANALYTICAL REPORT

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

Laboratory Job ID: 320-71415-1

Client Project/Site: Stewart ANGB - Butterhill #336089

For:

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

Attn: Mr. Dave Chiusano

Authorized for release by:

3/26/2021 4:52:30 PM

Judy Stone, Senior Project Manager  
(484)685-0868

[Judy.Stone@Eurofinset.com](mailto:Judy.Stone@Eurofinset.com)

LINKS

Review your project  
results through

**TotalAccess**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15

# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Definitions/Glossary .....	3
Case Narrative .....	4
Detection Summary .....	5
Client Sample Results .....	6
Isotope Dilution Summary .....	10
QC Sample Results .....	11
QC Association Summary .....	13
Lab Chronicle .....	14
Certification Summary .....	16
Method Summary .....	17
Sample Summary .....	18
Chain of Custody .....	19
Receipt Checklists .....	23

# Definitions/Glossary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-1

## 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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Case Narrative

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-1

## Job ID: 320-71415-1

### Laboratory: Eurofins TestAmerica, Sacramento

#### Narrative

#### Job Narrative 320-71415-1

#### Comments

This report includes the data for samples analyzed for PFAS\_DI\_DW for 6 analytes. The data for samples analyzed for the full list PFC\_IDA method will be reported in job series -2.

#### Receipt

The samples were received on 3/18/2021 9:50 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 0.5° C and 0.7° C.

#### Receipt Exceptions

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Samples 13 - 30 have part of ID abbreviated. North is abbreviated as N on container IDs. South is abbreviated as S on container IDs.  
Also sample 22, 1 of 2 containers did not have time on it. COC has time as 1004.

All samples were logged in and labeled according to COC.

BH20210317-PRE GAC (320-71415-1), BH20210317-1 Mid (320-71415-2), BH20210317-1 POST (320-71415-3), BH20210317-2 MID (320-71415-4), BH20210317-2 POST (320-71415-5), BH20210317-3 MID (320-71415-6), BH20210317-3 POST (320-71415-7), BH20210317- POST GAC (320-71415-8), BH20210317- POST GAC (320-71415-8[MS]), BH20210317- POST GAC (320-71415-8[MSD]), BH20210317-POST GAC (DUP) (320-71415-9), BH20210317-3RAW (320-71415-10), BH20210317-PRE-GAC (320-71415-11), BH20210317-POST GAC (320-71415-12), BH20210317-1 NORTH-25 (320-71415-13), BH20210317-2 NORTH-50 (320-71415-14), BH20210317-1 NORTH-75 (320-71415-15), BH20210317-1 SOUTH-25 (320-71415-16), BH20210317-1 SOUTH-50 (320-71415-17), BH20210317-2 SOUTH 75 (320-71415-18), BH20210317-2 NORTH 25 (320-71415-19), BH20210317-2 NORTH 50 (320-71415-20), BH20210317-2 NORTH 75 (320-71415-21), BH20210317-2 SOUTH 25 (320-71415-22), BH20210317-2 SOUTH 50 (320-71415-23), BH20210317-2 SOUTH 75 (320-71415-24), BH20210317-3 NORTH 25 (320-71415-25), BH20210317-3 NORTH 50 (320-71415-26), BH20210317-3 NORTH 75 (320-71415-27), BH20210317-3 SOUTH 25 (320-71415-28), BH20210317-3 SOUTH 50 (320-71415-29) and BH20210317-3 SOUTH 75 (320-71415-30).

Two Trizma Lot numbers SLCD7801 & 19510079. No field blanks. The following samples had Trizma Lot # SLCD7801:  
Samples 4-10 (8 MS/MSD), 12 & 21-30. Also samples 1 & 11

The following samples had Trizma Lot # 19510079: Samples 2, 3 & 13-20

#### LCMS

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

#### Organic Prep

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

## Detection Summary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-1

### **Client Sample ID: BH20210317-PRE GAC**

### **Lab Sample ID: 320-71415-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	2.4		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.0		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		2.0		ng/L	1		WS-LC-0025 Att1	Total/NA

### **Client Sample ID: BH20210317-1 Mid**

### **Lab Sample ID: 320-71415-2**

No Detections.

### **Client Sample ID: BH20210317-1 POST**

### **Lab Sample ID: 320-71415-3**

No Detections.

### **Client Sample ID: BH20210317-2 MID**

### **Lab Sample ID: 320-71415-4**

No Detections.

### **Client Sample ID: BH20210317-2 POST**

### **Lab Sample ID: 320-71415-5**

No Detections.

### **Client Sample ID: BH20210317-3 MID**

### **Lab Sample ID: 320-71415-6**

No Detections.

### **Client Sample ID: BH20210317-3 POST**

### **Lab Sample ID: 320-71415-7**

No Detections.

### **Client Sample ID: BH20210317- POST GAC**

### **Lab Sample ID: 320-71415-8**

No Detections.

### **Client Sample ID: BH20210317-POST GAC (DUP)**

### **Lab Sample ID: 320-71415-9**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-1

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-PRE GAC**

**Lab Sample ID: 320-71415-1**

Matrix: Water

Date Collected: 03/17/21 08:55

Date Received: 03/18/21 09:50

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:07	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>2.4</b>		2.0		ng/L		03/24/21 13:47	03/25/21 14:07	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>3.9</b>		2.0		ng/L		03/24/21 13:47	03/25/21 14:07	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:07	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>5.0</b>		2.0		ng/L		03/24/21 13:47	03/25/21 14:07	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>3.1</b>		2.0		ng/L		03/24/21 13:47	03/25/21 14:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	92		25 - 150				03/24/21 13:47	03/25/21 14:07	1
13C5 PFNA	92		25 - 150				03/24/21 13:47	03/25/21 14:07	1
13C4 PFOA	98		70 - 130				03/24/21 13:47	03/25/21 14:07	1
13C4 PFOS	86		70 - 130				03/24/21 13:47	03/25/21 14:07	1
18O2 PFHxS	88		25 - 150				03/24/21 13:47	03/25/21 14:07	1
13C3 PFBS	69		25 - 150				03/24/21 13:47	03/25/21 14:07	1

**Client Sample ID: BH20210317-1 Mid**

**Lab Sample ID: 320-71415-2**

Matrix: Water

Date Collected: 03/17/21 09:39

Date Received: 03/18/21 09:50

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:26	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:26	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:26	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:26	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	101		25 - 150				03/24/21 13:47	03/25/21 14:26	1
13C5 PFNA	100		25 - 150				03/24/21 13:47	03/25/21 14:26	1
13C4 PFOA	101		70 - 130				03/24/21 13:47	03/25/21 14:26	1
13C4 PFOS	94		70 - 130				03/24/21 13:47	03/25/21 14:26	1
18O2 PFHxS	96		25 - 150				03/24/21 13:47	03/25/21 14:26	1
13C3 PFBS	75		25 - 150				03/24/21 13:47	03/25/21 14:26	1

**Client Sample ID: BH20210317-1 POST**

**Lab Sample ID: 320-71415-3**

Matrix: Water

Date Collected: 03/17/21 09:48

Date Received: 03/18/21 09:50

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:44	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:44	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:44	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:44	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		03/24/21 13:47	03/25/21 14:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	110		25 - 150				03/24/21 13:47	03/25/21 14:44	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-1

**Client Sample ID: BH20210317-1 POST**

Date Collected: 03/17/21 09:48

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-3**

Matrix: Water

**Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	107		25 - 150	03/24/21 13:47	03/25/21 14:44	1
13C4 PFOA	108		70 - 130	03/24/21 13:47	03/25/21 14:44	1
13C4 PFOS	99		70 - 130	03/24/21 13:47	03/25/21 14:44	1
18O2 PFHxS	99		25 - 150	03/24/21 13:47	03/25/21 14:44	1
13C3 PFBS	83		25 - 150	03/24/21 13:47	03/25/21 14:44	1

**Client Sample ID: BH20210317-2 MID**

Date Collected: 03/17/21 09:57

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-4**

Matrix: Water

**Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:03		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:03		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:03		1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:03		1
Perfluoroctanesulfonic acid (PFOS)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:03		1
Perfluoroctanoic acid (PFOA)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:03		1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFHpA	104		25 - 150	03/24/21 13:47	03/25/21 15:03	1			
13C5 PFNA	104		25 - 150	03/24/21 13:47	03/25/21 15:03	1			
13C4 PFOA	106		70 - 130	03/24/21 13:47	03/25/21 15:03	1			
13C4 PFOS	96		70 - 130	03/24/21 13:47	03/25/21 15:03	1			
18O2 PFHxS	95		25 - 150	03/24/21 13:47	03/25/21 15:03	1			
13C3 PFBS	81		25 - 150	03/24/21 13:47	03/25/21 15:03	1			

**Client Sample ID: BH20210317-2 POST**

Date Collected: 03/17/21 10:09

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-5**

Matrix: Water

**Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:21		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:21		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:21		1
Perfluorononanoic acid (PFNA)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:21		1
Perfluoroctanesulfonic acid (PFOS)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:21		1
Perfluoroctanoic acid (PFOA)	ND		2.0	ng/L		03/24/21 13:47	03/25/21 15:21		1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFHpA	109		25 - 150	03/24/21 13:47	03/25/21 15:21	1			
13C5 PFNA	105		25 - 150	03/24/21 13:47	03/25/21 15:21	1			
13C4 PFOA	103		70 - 130	03/24/21 13:47	03/25/21 15:21	1			
13C4 PFOS	99		70 - 130	03/24/21 13:47	03/25/21 15:21	1			
18O2 PFHxS	97		25 - 150	03/24/21 13:47	03/25/21 15:21	1			
13C3 PFBS	83		25 - 150	03/24/21 13:47	03/25/21 15:21	1			

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-1

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317-3 MID**

**Lab Sample ID: 320-71415-6**

Matrix: Water

Date Collected: 03/17/21 10:20

Date Received: 03/18/21 09:50

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:39		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:39		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:39		1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:39		1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:39		1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:39		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	109		25 - 150				03/24/21 13:47	03/25/21 15:39	
13C5 PFNA	102		25 - 150				03/24/21 13:47	03/25/21 15:39	
13C4 PFOA	106		70 - 130				03/24/21 13:47	03/25/21 15:39	
13C4 PFOS	96		70 - 130				03/24/21 13:47	03/25/21 15:39	
18O2 PFHxS	101		25 - 150				03/24/21 13:47	03/25/21 15:39	
13C3 PFBS	81		25 - 150				03/24/21 13:47	03/25/21 15:39	

**Client Sample ID: BH20210317-3 POST**

**Lab Sample ID: 320-71415-7**

Matrix: Water

Date Collected: 03/17/21 10:42

Date Received: 03/18/21 09:50

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:58		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:58		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:58		1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:58		1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:58		1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 15:58		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	114		25 - 150				03/24/21 13:47	03/25/21 15:58	
13C5 PFNA	115		25 - 150				03/24/21 13:47	03/25/21 15:58	
13C4 PFOA	119		70 - 130				03/24/21 13:47	03/25/21 15:58	
13C4 PFOS	108		70 - 130				03/24/21 13:47	03/25/21 15:58	
18O2 PFHxS	107		25 - 150				03/24/21 13:47	03/25/21 15:58	
13C3 PFBS	91		25 - 150				03/24/21 13:47	03/25/21 15:58	

**Client Sample ID: BH20210317- POST GAC**

**Lab Sample ID: 320-71415-8**

Matrix: Water

Date Collected: 03/17/21 09:03

Date Received: 03/18/21 09:50

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 16:35		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 16:35		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 16:35		1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 16:35		1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 16:35		1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 16:35		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFHpA	111		25 - 150				03/24/21 13:47	03/25/21 16:35	
13C5 PFNA	103		25 - 150				03/24/21 13:47	03/25/21 16:35	
13C4 PFOA	108		70 - 130				03/24/21 13:47	03/25/21 16:35	

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-1

Project/Site: Stewart ANGB - Butterhill #336089

**Client Sample ID: BH20210317- POST GAC**

**Lab Sample ID: 320-71415-8**

Date Collected: 03/17/21 09:03

Matrix: Water

Date Received: 03/18/21 09:50

**Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances (Continued)**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	101		70 - 130	03/24/21 13:47	03/25/21 16:35	1
18O2 PFHxS	101		25 - 150	03/24/21 13:47	03/25/21 16:35	1
13C3 PFBS	85		25 - 150	03/24/21 13:47	03/25/21 16:35	1

**Client Sample ID: BH20210317-POST GAC (DUP)**

**Lab Sample ID: 320-71415-9**

Date Collected: 03/17/21 09:02

Matrix: Water

Date Received: 03/18/21 09:50

**Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances**

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 17:30		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 17:30		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 17:30		1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 17:30		1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 17:30		1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 17:30		1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFHpA	106		25 - 150				03/24/21 13:47	03/25/21 17:30	1
13C5 PFNA	100		25 - 150				03/24/21 13:47	03/25/21 17:30	1
13C4 PFOA	103		70 - 130				03/24/21 13:47	03/25/21 17:30	1
13C4 PFOS	93		70 - 130				03/24/21 13:47	03/25/21 17:30	1
18O2 PFHxS	97		25 - 150				03/24/21 13:47	03/25/21 17:30	1
13C3 PFBS	78		25 - 150				03/24/21 13:47	03/25/21 17:30	1

# Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 320-71415-1

Project/Site: Stewart ANGB - Butterhill #336089

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)					
		C4PFHA (25-150)	PFNA (25-150)	PFOA (70-130)	PFOS (70-130)	PFHxS (25-150)	C3PFBS (25-150)
320-71415-1	BH20210317-PRE GAC	92	92	98	86	88	69
320-71415-2	BH20210317-1 Mid	101	100	101	94	96	75
320-71415-3	BH20210317-1 POST	110	107	108	99	99	83
320-71415-4	BH20210317-2 MID	104	104	106	96	95	81
320-71415-5	BH20210317-2 POST	109	105	103	99	97	83
320-71415-6	BH20210317-3 MID	109	102	106	96	101	81
320-71415-7	BH20210317-3 POST	114	115	119	108	107	91
320-71415-8	BH20210317- POST GAC	111	103	108	101	101	85
320-71415-8 MS	BH20210317- POST GAC	106	102	103	95	92	80
320-71415-8 MSD	BH20210317- POST GAC	105	102	99	94	97	80
320-71415-9	BH20210317-POST GAC (DUP)	106	100	103	93	97	78
LCS 320-473541/2-A	Lab Control Sample	100	95	98	91	92	81
MB 320-473541/1-A	Method Blank	89	89	95	82	88	77

### Surrogate Legend

C4PFHA = 13C4 PFHpA  
 PFNA = 13C5 PFNA  
 PFOA = 13C4 PFOA  
 PFOS = 13C4 PFOS  
 PFHxS = 18O2 PFHxS  
 C3PFBS = 13C3 PFBS

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-1

Project/Site: Stewart ANGB - Butterhill #336089

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances

**Lab Sample ID: MB 320-473541/1-A**

**Matrix: Water**

**Analysis Batch: 473758**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 473541**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 10:26		1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 10:26		1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 10:26		1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 10:26		1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 10:26		1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L	03/24/21 13:47	03/25/21 10:26		1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C4 PFHpA	89		25 - 150	03/24/21 13:47	03/25/21 10:26	1	03/24/21 13:47	03/25/21 10:26	1
13C5 PFNA	89		25 - 150	03/24/21 13:47	03/25/21 10:26	1	03/24/21 13:47	03/25/21 10:26	1
13C4 PFOA	95		70 - 130	03/24/21 13:47	03/25/21 10:26	1	03/24/21 13:47	03/25/21 10:26	1
13C4 PFOS	82		70 - 130	03/24/21 13:47	03/25/21 10:26	1	03/24/21 13:47	03/25/21 10:26	1
18O2 PFHxS	88		25 - 150	03/24/21 13:47	03/25/21 10:26	1	03/24/21 13:47	03/25/21 10:26	1
13C3 PFBS	77		25 - 150	03/24/21 13:47	03/25/21 10:26	1	03/24/21 13:47	03/25/21 10:26	1

**Lab Sample ID: LCS 320-473541/2-A**

**Matrix: Water**

**Analysis Batch: 473758**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 473541**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Perfluorobutanesulfonic acid (PFBS)	17.7	18.2		ng/L	103	72 - 151		
Perfluoroheptanoic acid (PFHpA)	20.0	19.5		ng/L	97	71 - 138		
Perfluorohexanesulfonic acid (PFHxS)	18.2	18.2		ng/L	100	73 - 157		
Perfluorononanoic acid (PFNA)	20.0	19.0		ng/L	95	73 - 147		
Perfluorooctanesulfonic acid (PFOS)	18.6	17.1		ng/L	92	70 - 130		
Perfluorooctanoic acid (PFOA)	20.0	19.1		ng/L	96	70 - 130		
Isotope Dilution	%Recovery	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac	Prepared
		Result	Qualifier					
13C4 PFHpA	100	25 - 150						
13C5 PFNA	95	25 - 150						
13C4 PFOA	98	70 - 130						
13C4 PFOS	91	70 - 130						
18O2 PFHxS	92	25 - 150						
13C3 PFBS	81	25 - 150						

**Lab Sample ID: 320-71415-8 MS**

**Matrix: Water**

**Analysis Batch: 473758**

**Client Sample ID: BH20210317- POST GAC**

**Prep Type: Total/NA**

**Prep Batch: 473541**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Perfluorobutanesulfonic acid (PFBS)	ND		15.8	15.3		ng/L	97	72 - 151	
Perfluoroheptanoic acid (PFHpA)	ND		17.9	16.1		ng/L	90	71 - 138	
Perfluorohexanesulfonic acid (PFHxS)	ND		16.3	14.9		ng/L	92	73 - 157	
Perfluorononanoic acid (PFNA)	ND		17.9	14.7		ng/L	82	73 - 147	

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: New York State D.E.C.

Job ID: 320-71415-1

Project/Site: Stewart ANGB - Butterhill #336089

## Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: 320-71415-8 MS**

**Client Sample ID: BH20210317- POST GAC**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 473758**

**Prep Batch: 473541**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	ND		16.6	12.6		ng/L	76	70 - 130	
Perfluorooctanoic acid (PFOA)	ND		17.9	14.9		ng/L	83	70 - 130	
<b>Isotope Dilution</b>									
<b>MS %Recovery</b>									
13C4 PFHpA	106			25 - 150					
13C5 PFNA	102			25 - 150					
13C4 PFOA	103			70 - 130					
13C4 PFOS	95			70 - 130					
18O2 PFHxS	92			25 - 150					
13C3 PFBS	80			25 - 150					

**Lab Sample ID: 320-71415-8 MSD**

**Client Sample ID: BH20210317- POST GAC**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 473758**

**Prep Batch: 473541**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid (PFBS)	ND		15.9	15.4		ng/L	97	72 - 151		0	30
Perfluoroheptanoic acid (PFHpA)	ND		18.0	15.9		ng/L	88	71 - 138		2	30
Perfluorohexanesulfonic acid (PFHxS)	ND		16.4	15.3		ng/L	93	73 - 157		2	30
Perfluorononanoic acid (PFNA)	ND		18.0	13.7		ng/L	76	73 - 147		7	30
Perfluorooctanesulfonic acid (PFOS)	ND		16.7	13.3		ng/L	79	70 - 130		5	20
Perfluorooctanoic acid (PFOA)	ND		18.0	15.2		ng/L	85	70 - 130		3	20
<b>Isotope Dilution</b>											
<b>MSD %Recovery</b>											
13C4 PFHpA	105			25 - 150							
13C5 PFNA	102			25 - 150							
13C4 PFOA	99			70 - 130							
13C4 PFOS	94			70 - 130							
18O2 PFHxS	97			25 - 150							
13C3 PFBS	80			25 - 150							

# QC Association Summary

Client: New York State D.E.C.

Job ID: 320-71415-1

Project/Site: Stewart ANGB - Butterhill #336089

## LCMS

### Prep Batch: 473541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-71415-1	BH20210317-PRE GAC	Total/NA	Water	PFAS Prep	
320-71415-2	BH20210317-1 Mid	Total/NA	Water	PFAS Prep	
320-71415-3	BH20210317-1 POST	Total/NA	Water	PFAS Prep	
320-71415-4	BH20210317-2 MID	Total/NA	Water	PFAS Prep	
320-71415-5	BH20210317-2 POST	Total/NA	Water	PFAS Prep	
320-71415-6	BH20210317-3 MID	Total/NA	Water	PFAS Prep	
320-71415-7	BH20210317-3 POST	Total/NA	Water	PFAS Prep	
320-71415-8	BH20210317- POST GAC	Total/NA	Water	PFAS Prep	
320-71415-9	BH20210317-POST GAC (DUP)	Total/NA	Water	PFAS Prep	
MB 320-473541/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-473541/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
320-71415-8 MS	BH20210317- POST GAC	Total/NA	Water	PFAS Prep	
320-71415-8 MSD	BH20210317- POST GAC	Total/NA	Water	PFAS Prep	

### Analysis Batch: 473758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-71415-1	BH20210317-PRE GAC	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-2	BH20210317-1 Mid	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-3	BH20210317-1 POST	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-4	BH20210317-2 MID	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-5	BH20210317-2 POST	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-6	BH20210317-3 MID	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-7	BH20210317-3 POST	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-8	BH20210317- POST GAC	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-9	BH20210317-POST GAC (DUP)	Total/NA	Water	WS-LC-0025 Att1	473541
MB 320-473541/1-A	Method Blank	Total/NA	Water	WS-LC-0025 Att1	473541
LCS 320-473541/2-A	Lab Control Sample	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-8 MS	BH20210317- POST GAC	Total/NA	Water	WS-LC-0025 Att1	473541
320-71415-8 MSD	BH20210317- POST GAC	Total/NA	Water	WS-LC-0025 Att1	473541

# Lab Chronicle

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-1

**Client Sample ID: BH20210317-PRE GAC**

Date Collected: 03/17/21 08:55

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 14:07	D1R	TAL SAC

**Client Sample ID: BH20210317-1 Mid**

Date Collected: 03/17/21 09:39

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 14:26	D1R	TAL SAC

**Client Sample ID: BH20210317-1 POST**

Date Collected: 03/17/21 09:48

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 14:44	D1R	TAL SAC

**Client Sample ID: BH20210317-2 MID**

Date Collected: 03/17/21 09:57

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 15:03	D1R	TAL SAC

**Client Sample ID: BH20210317-2 POST**

Date Collected: 03/17/21 10:09

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 15:21	D1R	TAL SAC

**Client Sample ID: BH20210317-3 MID**

Date Collected: 03/17/21 10:20

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-6**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 15:39	D1R	TAL SAC

Eurofins TestAmerica, Sacramento

# Lab Chronicle

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-1

**Client Sample ID: BH20210317-3 POST**

Date Collected: 03/17/21 10:42

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 15:58	D1R	TAL SAC

**Client Sample ID: BH20210317- POST GAC**

Date Collected: 03/17/21 09:03

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-8**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 16:35	D1R	TAL SAC

**Client Sample ID: BH20210317-POST GAC (DUP)**

Date Collected: 03/17/21 09:02

Date Received: 03/18/21 09:50

**Lab Sample ID: 320-71415-9**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	473541	03/24/21 13:47	SAD	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			473758	03/25/21 17:30	D1R	TAL SAC

## Laboratory References:

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Accreditation/Certification Summary

Client: New York State D.E.C.

Job ID: 320-71415-1

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	04-01-21

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
WS-LC-0025 Att1	PFAS Prep	Water	Perfluorobutanesulfonic acid (PFBS)
WS-LC-0025 Att1	PFAS Prep	Water	Perfluoroheptanoic acid (PFHpA)
WS-LC-0025 Att1	PFAS Prep	Water	Perfluorohexanesulfonic acid (PFHxS)
WS-LC-0025 Att1	PFAS Prep	Water	Perfluorononanoic acid (PFNA)

## Method Summary

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

Job ID: 320-71415-1

Method	Method Description	Protocol	Laboratory
WS-LC-0025 Att1	Fluorinated Alkyl Substances	TAL-SAC	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

**Protocol References:**

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

**Laboratory References:**

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

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15

# Sample Summary

Client: New York State D.E.C.

Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-71415-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-71415-1	BH20210317-PRE GAC	Water	03/17/21 08:55	03/18/21 09:50	
320-71415-2	BH20210317-1 Mid	Water	03/17/21 09:39	03/18/21 09:50	
320-71415-3	BH20210317-1 POST	Water	03/17/21 09:48	03/18/21 09:50	
320-71415-4	BH20210317-2 MID	Water	03/17/21 09:57	03/18/21 09:50	
320-71415-5	BH20210317-2 POST	Water	03/17/21 10:09	03/18/21 09:50	
320-71415-6	BH20210317-3 MID	Water	03/17/21 10:20	03/18/21 09:50	
320-71415-7	BH20210317-3 POST	Water	03/17/21 10:42	03/18/21 09:50	
320-71415-8	BH20210317- POST GAC	Water	03/17/21 09:03	03/18/21 09:50	
320-71415-9	BH20210317-POST GAC (DUP)	Water	03/17/21 09:02	03/18/21 09:50	

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

## Albany Chain of Custody Record

**#224**

<b>Client Information</b>		Analysis Requested											
Client Contact: Benjamin Powers Company: ARCADIS U.S. Inc.	Sampler: <i>Ben Powers</i> Phone: 315 - 412 - 3474 PWSID	Lab P/M: Stone, Judy L E-Mail: Judy.Stone@Eurofinset.com	Carrier Tracking No(s): State of Origin		COC No: Page:								
Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-402-9813(Tel) Email: benjamin.powers@arcadis.com Project Name: Stewart ANGB - Butterhill #336889 Site:	<input type="checkbox"/> Due Date Requested: TAT Requested (days): <i>5-7 days</i> <input type="checkbox"/> Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No PO# Callout ID: 137349 WO# Project #: 48020960 SSOW#:												
<b>Preservation Codes:</b>  320-71415 Chain of Custody													
<b>Total Number of Contaminants:</b> PFAS-DI-DW-PFAS, Standard List (21 Analytes) - SAC PFAS-DI-DA - PFAS, Standard List (yes or No)													
<b>Special Instructions/Note:</b> Perform MS/MSD (yes or No) Field Filtered Sample (yes or No) Preservation Codes: Matrix (W=water, S=solid, C=Coarse, G=Grab, B=Tissue, A=Air)													
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp., G=Grab)	Preservation Code:	Special Instructions/Note:							
Bit 20210317 - PRE GRAC		3/17/21	06:55	G	Water	N	N	Y					
Bit 20210317 - 1 Mid		3/17/21	09:34	G	Water	N	N	Y					
Bit 20210317 - 1 POST		3/17/21	09:48	G	Water	N	N	Y					
Bit 20210317 - 2 MID		3/17/21	09:57	G	Water	N	N	Y					
Bit 20210317 - 2 POST		3/17/21	10:09	G	Water	N	N	Y					
Bit 20210317 - 3 MID		3/17/21	10:20	G	Water	N	N	Y					
Bit 20210317 - 3 POST		3/17/21	10:43	G	Water	N	N	Y					
Bit 20210317 - POST GRAC		3/17/21	09:03	G	Water	N	N	Y					
Bit 20210317 - POST GRAC (Dip)		3/17/21	09:03	G	Water	N	N	Y					
Bit 20210317 - POST GRAC MS		3/17/21	09:05	G	Water	N	N	Y					
Bit 20210317 - POST GRAC MSD		3/17/21	09:07	G	Water	N	N	Y					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological													
Deliverable Requested: I, II, III, IV. Other (specify):													
Empty Kit Relinquished by: Relinquished by: <i>Megan McLean</i> Relinquished by: <i>Mark Zoch</i> Custody Seals intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 1449762													
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months													
Special Instructions/QC Requirements:													
Date:	Time:	Method of Shipment:											
Date/Time:	Company:	Received by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
3/17/21	12:40	<i>Mark Zoch</i>		3/17/21		13:45		<i>Mark Zoch</i>		3/18/21		9:50	
3/17/21	17:00			03/18/21						03/18/21		etc SAC	
Cooler Temperatures(°C) and Other Remarks: 0.5 0-7													

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15

**Aldany #224 Chain of Custody Record**

Client Information		Sampler		Carrier Tracking No(s)		Carrier		Analysis Requested		Preservation Codes:			
Client Contact: Benjamin Powers		Phone: 315-412-3474		E-Mail: Judy Stone@EurofinsTest.com		State of Origin				Total Number of Contaminants			
Company: ARCADIS U.S. Inc		PWSID								Page 2 of 4 Job #			
Address: 855 Route 146 Suite 210 City Clifton Park State, Zip NY, 12065 Phone 518-402-9813(Tel) Email benjamin.powers@arcadis.com Project Name: Stewart ANGB - Butterhill #336089 Site:	Due Date Requested: <i>Stewart</i>	TAT Requested (days): <i>4</i>	Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	PO#:	Callout ID: 137349	WO#:	PPAs-DLW - PFAs, Standard List (21 Analytes) - SAC	PFAs-DLW - PFAs, Standard List (21 Analytes) - SAC	Petroleum Sample (yes or No)	Field Filtered Sample (yes or No)	Special Instructions/Note:		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grav, B=BSA, A=ASU)	Matrix (W=water, S=solid, O=soil, T=tissue, A=Au)	Preservation Code:							
BH 20210317-1RAB	2/17	0935	G	Water	W								
BH 20210317-2RAB		0855	G	Water	W								
BH 20210317-3RAB		0909	G	Water	W								
BH 20210317-POST GAC		0934	G	Water	W								
BH 20210317-1 NORTH-25		0936	G	Water	W								
BH 20210317-1 NORTH-50		0937	G	Water	W								
BH 20210317-1 NORTH-75		0943	G	Water	W								
BH 20210317-1 SOUTH-25		0945	G	Water	W								
BH 20210317-1 SOUTH-50		0946	G	Water	W								
BH 20210317-1 SOUTH-75													
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
Deliverable Requested I, II, III, IV. Other (specify)												<input type="checkbox"/> Sample Disposal / A fee may be assessed if samples are retained longer than 1 month	
Deliverable Requested I, II, III, IV. Other (specify)												<input type="checkbox"/> Return To Client	
Deliverable Requested I, II, III, IV. Other (specify)												<input type="checkbox"/> Disposal By Lab	
Deliverable Requested I, II, III, IV. Other (specify)												<input type="checkbox"/> Archive For Months	
Empty Kit Relinquished by:		Date:	Time:	Company		Received by:	Date/Time:		Company		Method of Shipment:		
Relinquished by: <i>Judith Powers</i>		Date/Time: 3/17/21 12:40		Company: Arcadis Europe		Received by: <i>John Zoch</i>	Date/Time: 3/17/21 13:45		Company: Eurofins Europe				
Relinquished by: <i>John Zoch</i>		Date/Time: 3/17/21 17:00		Company: Eurofins Europe		Received by: <i>Judy Stone</i>	Date/Time: 03/18/21 09:50		Company: Eurofins Europe				
Custody Seals intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 1449162	1449164			Cooler Temperature(s) °C and Other Remarks: 0.5 0.7							

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

**Chain of Custody Record**  
**#224**

eurofins | Environment Testing America

<b>Client Information</b>		<b>Analysis Requested</b>													
Sampler	Ben Powers	Lab FM:	Stone, Judy L	Carrier Tracking No(s)	COC No: 480-158251-34763 3										
Phone	215-412-3479	E-Mail	Judy.Stone@EurofinsTest.com	Page: 3 of 4											
PWSID		State of Origin		Job #											
ARCADIS U.S. Inc															
Address:	855 Route 146 Suite 210	Due Date Requested:													
City:	Clifton Park	TAT Requested (days):													
State/Zip:	NY, 12065	Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													
Phone:	518-402-9813 (Tel)	PO #													
Email:	benjamin.powers@arcadis.com	Callout ID: 137349													
Project Name	Stewart ANGB - Butterhill #336089	WO #													
Site:	SSOW#	Project #:													
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, B=tissue, A=air)	Preservation Code:	Special Instructions/Note:								
BH 20210317-2 NORTH 25	3/17	0953	G	Water	NNY										
BH 20210317-2 NORTH 50		0953	G	Water	NNY										
BH 20210317-2 NORTH 75		0456	G	Water	NNY										
BH 20210317-2 SOUTH 25		1004	G	Water	NNY										
BH 20210317-2 SOUTH 50		1005	G	Water	NNY										
BH 20210317-2 SOUTH 75		1008	G	Water	NNY										
BH 20210317-3 NORTH 25		1015	G	Water	NNY										
BH 20210317-3 NORTH 50		1016	G	Water	NNY										
BH 20210317-3 NORTH 75		1018	G	Water	NNY										
BH 20210317-3 SOUTH 25		1038	G	Water	NNY										
BH 20210317-3 SOUTH 50		1039	G	Water	NNY										
<b>Possible Hazard Identification</b>												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological												<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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							
<i>Benjamin Powers</i>	3/17/2021 12:40			ARCADIS Company	<i>Randy Jackson</i>	3/17/21 12:45		Company							
Relinquished by:	Date/Time:			Company	Received by	Date/Time:		Company							
<i>Benjamin Powers</i>	3/17/21 1700			Eurofins Company	<i>John Jackson</i>	03/18/21 950		Company							
Custody Seal Infect:	Custody Seal No.:			1449762 1449764		Cooler Temperature(s)°C and Other Remarks		0.5 0.7							
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															

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

**Albany #224 Chain of Custody Record**

eurofins | Environment Testing America

<b>Client Information</b>		Benn Powers		Carrier Tracking No(s): CCC No 480-158251-34763.4															
Client Contact:	Phone: 315-412-3474	Lab PM: Stone, Judy L.	E-Mail: Judy.Stone@EurofinsSet.com	State of Origin:															
Company: ARCADIS US, Inc	PWSID:			Page: 4 of 4															
Address: 855 Route 146 Suite 210	Due Date Requested:			Job #:															
City: Clifton Park	TAT Requested (days):																		
State, Zip: NY, 12065	Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																		
Phone: 518-402-9813(Tel)	PO #:																		
Email: benjamin.powers@arcadis.com	Callout ID: 137349																		
Project Name: Stewart ANGB - Butterhill #336089	WO #:																		
Site:	Project # 48020960																		
SSOW#:																			
Sample Identification																			
<table border="1"> <tr> <td>Sample Date: 3/17/2017</td> <td>Sample Time: 1040 G</td> <td>Sample Type: Water</td> <td>Matrix: <input checked="" type="checkbox"/> Water, <input type="checkbox"/> S-solid, <input type="checkbox"/> Oil/wax, <input type="checkbox"/> Bi-tissue, <input type="checkbox"/> Avail</td> </tr> <tr> <td colspan="4">Preservation Code: <input checked="" type="checkbox"/> Field Filtered <input checked="" type="checkbox"/> Filtered Sample <input checked="" type="checkbox"/> Frozen <input checked="" type="checkbox"/> Other</td> </tr> </table>					Sample Date: 3/17/2017	Sample Time: 1040 G	Sample Type: Water	Matrix: <input checked="" type="checkbox"/> Water, <input type="checkbox"/> S-solid, <input type="checkbox"/> Oil/wax, <input type="checkbox"/> Bi-tissue, <input type="checkbox"/> Avail	Preservation Code: <input checked="" type="checkbox"/> Field Filtered <input checked="" type="checkbox"/> Filtered Sample <input checked="" type="checkbox"/> Frozen <input checked="" type="checkbox"/> Other										
Sample Date: 3/17/2017	Sample Time: 1040 G	Sample Type: Water	Matrix: <input checked="" type="checkbox"/> Water, <input type="checkbox"/> S-solid, <input type="checkbox"/> Oil/wax, <input type="checkbox"/> Bi-tissue, <input type="checkbox"/> Avail																
Preservation Code: <input checked="" type="checkbox"/> Field Filtered <input checked="" type="checkbox"/> Filtered Sample <input checked="" type="checkbox"/> Frozen <input checked="" type="checkbox"/> Other																			
<table border="1"> <tr> <td>3120210307-3SOUTH 75</td> <td>3/17/2017</td> <td>1040 G</td> <td>Water</td> <td>WY</td> </tr> </table>					3120210307-3SOUTH 75	3/17/2017	1040 G	Water	WY										
3120210307-3SOUTH 75	3/17/2017	1040 G	Water	WY															
<table border="1"> <tr> <td colspan="5">Special Instructions/Note: <input checked="" type="checkbox"/> Total Number of Containers: 2 <input checked="" type="checkbox"/> PFCs - D1-DW - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFCs - D1A - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFA - PFS, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFS - PFS, Standard List (21 Analytes) - SAC</td> </tr> </table>					Special Instructions/Note: <input checked="" type="checkbox"/> Total Number of Containers: 2 <input checked="" type="checkbox"/> PFCs - D1-DW - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFCs - D1A - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFA - PFS, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFS - PFS, Standard List (21 Analytes) - SAC														
Special Instructions/Note: <input checked="" type="checkbox"/> Total Number of Containers: 2 <input checked="" type="checkbox"/> PFCs - D1-DW - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFCs - D1A - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFA - PFS, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFS - PFS, Standard List (21 Analytes) - SAC																			
<table border="1"> <tr> <td colspan="5">Special Instructions/Note: <input checked="" type="checkbox"/> Total Number of Containers: 2 <input checked="" type="checkbox"/> PFCs - D1-DW - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFCs - D1A - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFA - PFS, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFS - PFS, Standard List (21 Analytes) - SAC</td> </tr> </table>					Special Instructions/Note: <input checked="" type="checkbox"/> Total Number of Containers: 2 <input checked="" type="checkbox"/> PFCs - D1-DW - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFCs - D1A - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFA - PFS, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFS - PFS, Standard List (21 Analytes) - SAC														
Special Instructions/Note: <input checked="" type="checkbox"/> Total Number of Containers: 2 <input checked="" type="checkbox"/> PFCs - D1-DW - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFCs - D1A - PFAs, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFA - PFS, Standard List (21 Analytes) - SAC <input checked="" type="checkbox"/> PFS - PFS, Standard List (21 Analytes) - SAC																			
<table border="1"> <tr> <td colspan="5">Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</td> </tr> </table>					Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological														
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological																			
<table border="1"> <tr> <td colspan="5">Deliverable Requested: I, II, III, IV, Other (specify)</td> </tr> </table>					Deliverable Requested: I, II, III, IV, Other (specify)														
Deliverable Requested: I, II, III, IV, Other (specify)																			
<table border="1"> <tr> <td colspan="5">Empty Kit Relinquished by: <input checked="" type="checkbox"/> Reinquished by: <input checked="" type="checkbox"/> Non-Hazard <input checked="" type="checkbox"/> Flammable <input checked="" type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological</td> </tr> </table>					Empty Kit Relinquished by: <input checked="" type="checkbox"/> Reinquished by: <input checked="" type="checkbox"/> Non-Hazard <input checked="" type="checkbox"/> Flammable <input checked="" type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological														
Empty Kit Relinquished by: <input checked="" type="checkbox"/> Reinquished by: <input checked="" type="checkbox"/> Non-Hazard <input checked="" type="checkbox"/> Flammable <input checked="" type="checkbox"/> Skin Irritant <input checked="" type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input checked="" type="checkbox"/> Radiological																			
<table border="1"> <tr> <td colspan="5">Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</td> </tr> </table>					Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			
<table border="1"> <tr> <td colspan="5">Custody Seal No: 1449762 1449764 Cooler Temperature(s) °C and Other Remarks: 0.5 0.7</td> </tr> </table>					Custody Seal No: 1449762 1449764 Cooler Temperature(s) °C and Other Remarks: 0.5 0.7														
Custody Seal No: 1449762 1449764 Cooler Temperature(s) °C and Other Remarks: 0.5 0.7																			
<table border="1"> <tr> <td>Date: 3/17/2017</td> <td>Time: 1040 G</td> <td>Received By: <i>Benn Powers</i></td> <td>Date/Time: 3/17/21 1045 AM</td> <td>Company: Eurofins</td> </tr> <tr> <td>Date/Time: 3/17/2017</td> <td>Time: 1040 G</td> <td>Received By: <i>Aileen J. Isen</i></td> <td>Date/Time: 3/18/21 950 AM</td> <td>Company: Eurofins</td> </tr> <tr> <td>Date/Time: 3/17/2017</td> <td>Time: 1040 G</td> <td>Received By: <i>Judy Stone</i></td> <td>Date/Time: 3/18/21 950 AM</td> <td>Company: Eurofins</td> </tr> </table>					Date: 3/17/2017	Time: 1040 G	Received By: <i>Benn Powers</i>	Date/Time: 3/17/21 1045 AM	Company: Eurofins	Date/Time: 3/17/2017	Time: 1040 G	Received By: <i>Aileen J. Isen</i>	Date/Time: 3/18/21 950 AM	Company: Eurofins	Date/Time: 3/17/2017	Time: 1040 G	Received By: <i>Judy Stone</i>	Date/Time: 3/18/21 950 AM	Company: Eurofins
Date: 3/17/2017	Time: 1040 G	Received By: <i>Benn Powers</i>	Date/Time: 3/17/21 1045 AM	Company: Eurofins															
Date/Time: 3/17/2017	Time: 1040 G	Received By: <i>Aileen J. Isen</i>	Date/Time: 3/18/21 950 AM	Company: Eurofins															
Date/Time: 3/17/2017	Time: 1040 G	Received By: <i>Judy Stone</i>	Date/Time: 3/18/21 950 AM	Company: Eurofins															
<table border="1"> <tr> <td colspan="5">Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</td> </tr> </table>					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months														
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months																			
<table border="1"> <tr> <td>Date: 3/17/2017</td> <td>Time: 1040 G</td> <td>Method of Shipment:</td> </tr> </table>					Date: 3/17/2017	Time: 1040 G	Method of Shipment:												
Date: 3/17/2017	Time: 1040 G	Method of Shipment:																	

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 320-71415-1

**Login Number: 71415**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Nuval, Mark-Anthony M**

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	1449762, 1449764
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.	True	
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	