

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## Division of Environmental Remediation

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www.dec.ny.gov

January 24, 2020

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

Re: New Windsor Public Water Supply Well 21 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 January 9, 2020 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. The U.S. Environmental Protection Agency (EPA) lifetime health advisory level (HAL) is 70 parts per trillion (ppt) for PFOA, PFOS, or the combination of PFOA and PFOS. The proposed NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.**

Specifically, the samples were analyzed for a total of six and twenty-one per- and polyfluoroalkyl substances (PFAS), including Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS). Data received for the 21 PFAS list analysis has been attached. Please note that the sampling data associated with the 6 PFAS list was recently provided to the Town under separate letter after receipt and review by DEC and the New York State Department of Health (DOH).

During this event, sampling for the 21 PFAS list was conducted at 14 locations:

- pre-treatment (raw untreated water), which has a “BH20191205PRE-GAC” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20191205-1A-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20191205-1A-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20191205-1A-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20191205-2A-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20191205-2A-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20191205-2A-75” identifier in the Client Sample ID;



Department of  
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Conservation



- 25 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20191205-3A-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20191205-3A-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 3), which has a “BH20191205-3A-75” identifier in the Client Sample ID;
- Butterhill Well No.1 raw untreated water; which has a “BH20191205-1RAW” identifier in the Client Sample ID;
- Butterhill Well No.2 raw untreated water; which has a “BH20191205-2RAW” identifier in the Client Sample ID;
- Butterhill Well No.3 raw untreated water; which has a “BH20191205-3RAW” identifier in the Client Sample ID;
- Post-treatment (treated water after all GAC trains), which has a “BH20191205POST-GAC” identifier in the Client Sample ID.

The 14 locations sampled (and their associated identifiers) are depicted in Figure 1.

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,



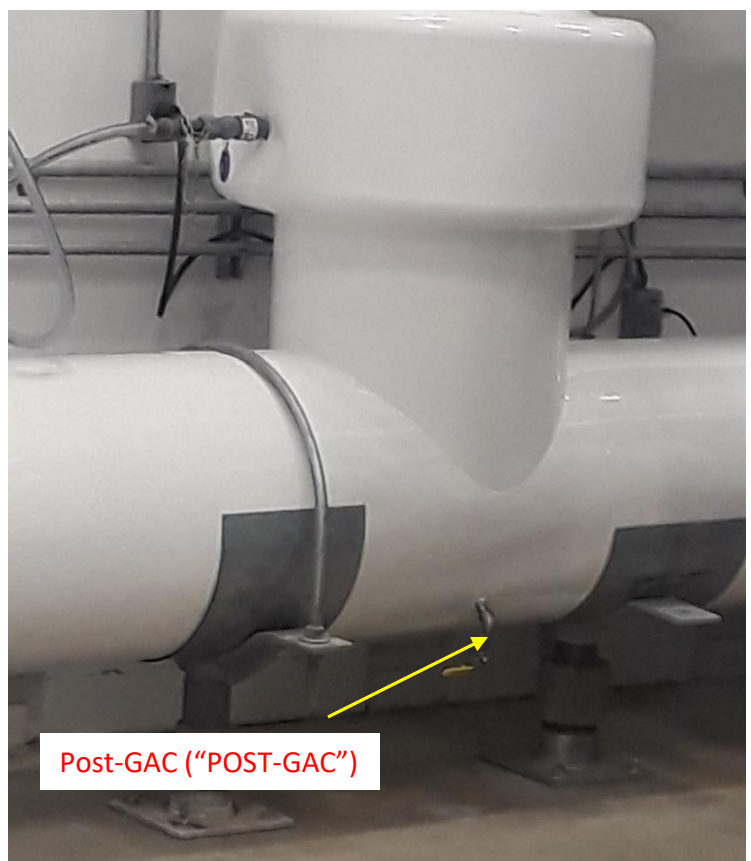
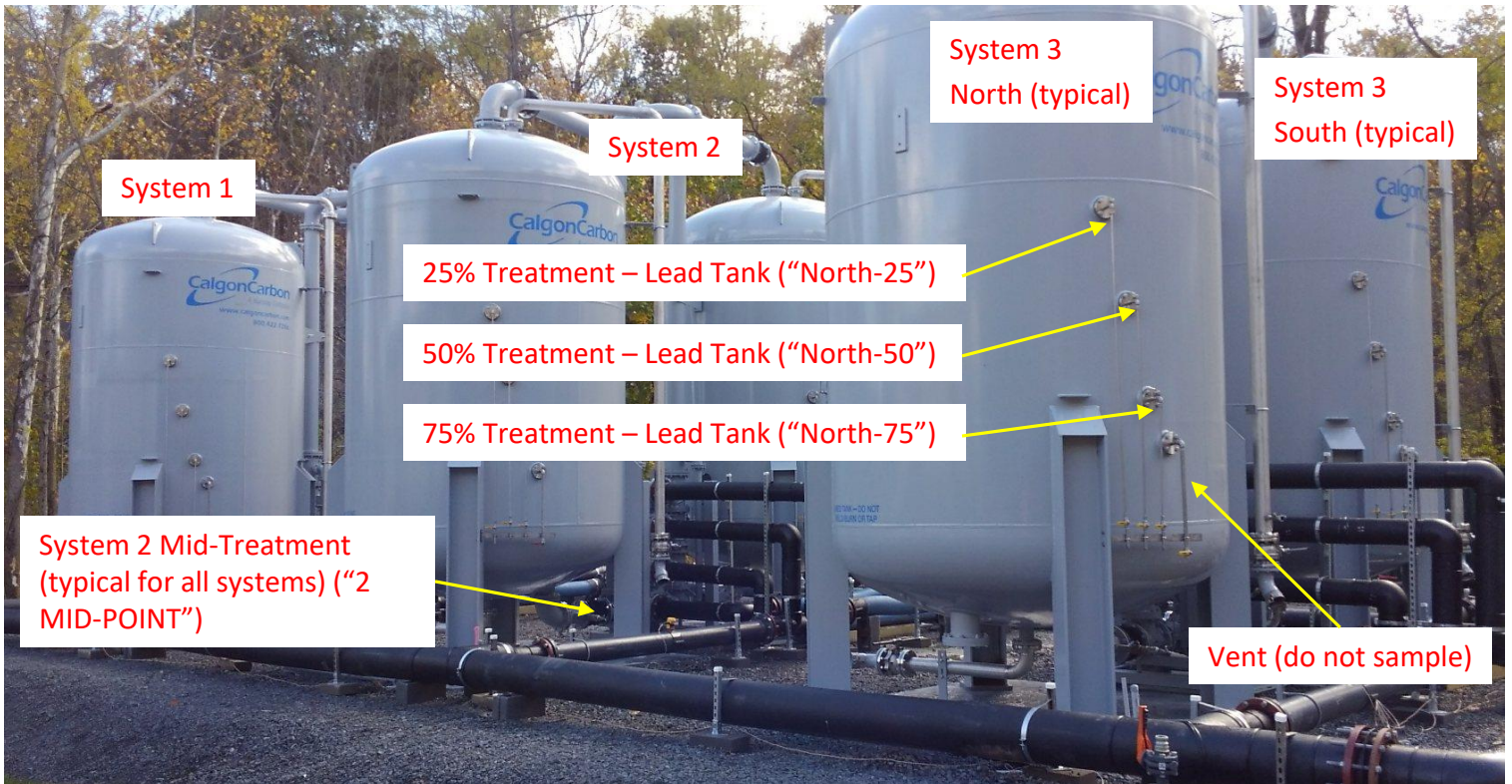
David J. Chiusano  
Environmental Engineer/Project Manager  
Remedial Section A, Remedial Bureau E  
Division of Environmental Remediation

#### Enclosures

ec: w/enclosures  
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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  
D. Harrington, NYSDEC

**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))**

| Date                                    | Analyte | Well 1 <sup>1</sup><br>Raw Water | Well 2<br>Raw Water | Well 3<br>Raw Water | Pre GAC<br>Raw Water | GAC Pair<br>1 Lead<br>25% | GAC Pair<br>1 Lead<br>50% | GAC Pair 1<br>Lead 75% | GAC Pair 2<br>Lead 25% | GAC Pair 2<br>Lead 50% | GAC Pair 2<br>Lead 75% | GAC Pair 3<br>Lead 25% | GAC Pair 3<br>Lead 50% | GAC Pair 3<br>Lead 75% | Treated<br>Effluent | USEPA<br>Drinking<br>Water<br>Health<br>Advisory<br>Guidance<br>Value <sup>3</sup> | Proposed<br>NYS MCLs <sup>4</sup> |
|---|---------|----------------------------------|---------------------|---------------------|----------------------|---------------------------|---------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|--|-----------------------------------|
| December<br>2019<br>(Well 3)            | PFOA    | 2.6                              | 3.5                 | 5.0                 | 2.5                  | ND <sup>2</sup>           | ND                        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                  | 70 <sup>3</sup>  | 10 <sup>4</sup>                   |
|   | PFOS    | 3.7                              | 2.4                 | 8.9                 | 3.1                  | ND                        | ND                        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                  | 70 <sup>3</sup>  | 10 <sup>4</sup>                   |
| January 2020<br>(Well 2 <sup>**</sup> ) | PFOA    | 2.4                              | 3.5                 | 3.9                 | 3.3                  | ND                        | ND                        | ND                     | 2.2                    | ND                     | ND                     | 1.8                    | ND                     | ND                     | ND                  | 70 <sup>3</sup>  | 10 <sup>4</sup>                   |
|   | PFOS    | 3.3                              | 2.4                 | 7.7                 | 2.5                  | ND                        | ND                        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                  | 70 <sup>3</sup>  | 10 <sup>4</sup>                   |

**Notes:**

\* 21 PFAS List Analysis.

\*\* At time of sampling Production Well No. 2 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. Guidance: USEPA Drinking Water Health Advisory guidance value is currently 70 ppt.
4. The proposed NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

## 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).

### Inorganic Results:

- Parameter is the same as “analyte” above – it is the chemical being tested.
- Result is the concentration of that chemical detected.
- RL/PQL is the lowest level at which the specific laboratory test can reliably quantify the concentration. Below that number, the result is considered unreliable.
- DIL is the number of times the sample was diluted (necessary because the test has a certain range that it is accurate for).
- Units: mg/l is milligrams per liter or parts per million; ug/l is micrograms per liter or parts per billion.
- DW MCL stands for drinking water (DW) and “maximum contaminant level” (MCL). All chemicals that have a “maximum contaminant level” (MCL) established for drinking water (DW) have a level reported in this column.

- 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.

## ANALYTICAL REPORT

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

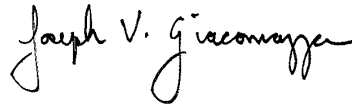
Laboratory Job ID: 320-57628-1

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:

1/24/2020 9:08:24 AM

Joe Giacomazza, Project Management Assistant II  
[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

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### LINKS

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Have a Question?



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[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 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.*



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## Definitions/Glossary

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

Job ID: 320-57628-1

### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| 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)   |
| MDA            | Minimum Detectable Activity (Radiochemistry)  |
| MDC            | Minimum Detectable Concentration (Radiochemistry)   |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| 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)   |

# Case Narrative

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

Job ID: 320-57628-1

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## Job ID: 320-57628-1

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### Laboratory: Eurofins TestAmerica, Sacramento

#### Narrative

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#### Job Narrative 320-57628-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 1/10/2020 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

#### Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): BH20200109POST-GAC (320-57628-2[MSD]). 1/2 MSD container lists time at 9:25, while COC lists time at 9:45. Logged in and labeled according to COC.

#### LCMS

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

#### Organic Prep

Method 3535: The following samples were observed to contain trizima: BH20200109PRE-GAC (320-57628-1), BH20200109POST-GAC (320-57628-2), BH20200109POST-GAC (320-57628-2[MS]), BH20200109POST-GAC (320-57628-2[MSD]), BH20200109POST-GACDUP (320-57628-3), BH20200109-1North-25 (320-57628-4), BH20200109-1North-75 (320-57628-5), BH20200109-1North-50 (320-57628-6), BH20200109-2North-25 (320-57628-7), BH20200109-2North-50 (320-57628-8), BH20200109-2North-75 (320-57628-9), BH20200109-3North-25 (320-57628-10), BH20200109-3North-50 (320-57628-11), BH20200109-1RAW (320-57628-12), BH20200109-2RAW (320-57628-13), BH20200109-3RAW (320-57628-14) and BH20200109-3North-75 (320-57628-15). Thus, the MB, and LCS also contain Trizma.

Method Code: 3535 PFC-W

preparation batch 320-351985 and 320-351985

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.  
Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-57628-1

## Client Sample ID: BH20200109PRE-GAC

Lab Sample ID: 320-57628-1

| Analyte                              | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 5.0    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 5.0    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 3.5    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 2.2    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 3.3    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 3.2    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)  | 2.5    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109POST-GAC

Lab Sample ID: 320-57628-2

No Detections.

## Client Sample ID: BH20200109POST-GACDUP

Lab Sample ID: 320-57628-3

No Detections.

## Client Sample ID: BH20200109-1North-25

Lab Sample ID: 320-57628-4

| Analyte                         | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)   | 5.3    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA) | 4.7    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)  | 2.5    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-1North-75

Lab Sample ID: 320-57628-5

| Analyte                            | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|------------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)      | 3.7    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorotridecanoic acid (PFTriA) | 2.3    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-1North-50

Lab Sample ID: 320-57628-6

| Analyte                         | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)   | 4.7    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA) | 3.3    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-2North-25

Lab Sample ID: 320-57628-7

| Analyte                              | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 4.9    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 4.6    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 2.9    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 1.9    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 2.2    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 2.2    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-2North-50

Lab Sample ID: 320-57628-8

| Analyte                         | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)   | 5.0    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA) | 3.9    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)  | 1.9    |           | 1.9 |     | 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: 320-57628-1

## Client Sample ID: BH20200109-2North-75

## Lab Sample ID: 320-57628-9

| Analyte                       | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|-------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA) | 4.0    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-3North-25

## Lab Sample ID: 320-57628-10

| Analyte                         | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)   | 4.8    |           | 1.8 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| 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  |
| Perfluorooctanoic acid (PFOA)   | 1.8    |           | 1.8 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-3North-50

## Lab Sample ID: 320-57628-11

| Analyte                         | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|---------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)   | 5.1    |           | 1.8 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA) | 3.3    |           | 1.8 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-1RAW

## Lab Sample ID: 320-57628-12

| Analyte                              | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 6.0    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 2.4    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorobutanesulfonic acid (PFBS)  | 2.7    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 2.9    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)  | 3.3    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-2RAW

## Lab Sample ID: 320-57628-13

| Analyte                              | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 5.2    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 5.1    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 3.4    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 2.2    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 3.5    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 3.4    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)  | 2.4    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-3RAW

## Lab Sample ID: 320-57628-14

| Analyte                              | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|--------------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA)        | 4.9    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoropentanoic acid (PFPeA)      | 7.8    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanoic acid (PFHxA)       | 5.6    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluoroheptanoic acid (PFHpA)      | 2.8    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanoic acid (PFOA)        | 3.9    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorohexanesulfonic acid (PFHxS) | 4.6    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |
| Perfluorooctanesulfonic acid (PFOS)  | 7.7    |           | 2.0 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

## Client Sample ID: BH20200109-3North-75

## Lab Sample ID: 320-57628-15

| Analyte                       | Result | Qualifier | RL  | MDL | Unit | Dil Fac | D | Method         | Prep Type |
|-------------------------------|--------|-----------|-----|-----|------|---------|---|----------------|-----------|
| Perfluorobutanoic acid (PFBA) | 3.6    |           | 1.9 |     | ng/L | 1       |   | 537 (modified) | Total/NA  |

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109PRE-GAC**

**Lab Sample ID: 320-57628-1**

Date Collected: 01/09/20 09:30

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 5.0    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 5.0    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 3.5    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 2.2    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 3.3    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 3.2    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 2.5    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:34 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 83        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C5 PFPeA       | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C2 PFHxA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C4 PFHpA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C4 PFOA        | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C5 PFNA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C2 PFDA        | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C2 PFUnA       | 106       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C2 PFDoA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C2 PFTeDA      | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C3 PFBS        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 18O2 PFHxS       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C4 PFOS        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| 13C8 FOSA        | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| d3-NMeFOSAA      | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| d5-NEtFOSAA      | 111       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| M2-6:2 FTS       | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |
| M2-8:2 FTS       | 111       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:34 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109POST-GAC**

**Lab Sample ID: 320-57628-2**

**Date Collected: 01/09/20 09:42**

**Matrix: Water**

**Date Received: 01/10/20 09:15**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:42 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C5 PFPeA       | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C2 PFHxA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C4 PFHpA       | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C4 PFOA        | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C5 PFNA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C2 PFDA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C2 PFUnA       | 105       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C2 PFDoA       | 105       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C2 PFTeDA      | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C3 PFBS        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 18O2 PFHxS       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C4 PFOS        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| 13C8 FOSA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| d3-NMeFOSAA      | 103       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| d5-NEtFOSAA      | 107       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| M2-6:2 FTS       | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |
| M2-8:2 FTS       | 107       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:42 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109POST-GACDUP**

**Lab Sample ID: 320-57628-3**

**Date Collected: 01/09/20 09:50**

**Matrix: Water**

**Date Received: 01/10/20 09:15**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:06 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 90        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C5 PFPeA       | 89        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C2 PFHxA       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C4 PFHpA       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C4 PFOA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C5 PFNA        | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C2 PFDA        | 90        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C2 PFUnA       | 103       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C2 PFDoA       | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C2 PFTeDA      | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C3 PFBS        | 92        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 18O2 PFHxS       | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C4 PFOS        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| 13C8 FOSA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| d3-NMeFOSAA      | 111       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| d5-NEtFOSAA      | 114       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| M2-6:2 FTS       | 116       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |
| M2-8:2 FTS       | 112       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:06 | 1       |

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-1North-25**

**Lab Sample ID: 320-57628-4**

Date Collected: 01/09/20 10:30

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 5.3    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 4.7    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 2.5    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:14 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 81        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C5 PFPeA       | 83        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C2 PFHxA       | 88        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C4 PFHpA       | 90        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C4 PFOA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C5 PFNA        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C2 PFDA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C2 PFUnA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C2 PFDoA       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C2 PFTeDA      | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C3 PFBS        | 86        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 18O2 PFHxS       | 87        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C4 PFOS        | 92        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| 13C8 FOSA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| d3-NMeFOSAA      | 104       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| d5-NEtFOSAA      | 115       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| M2-6:2 FTS       | 144       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |
| M2-8:2 FTS       | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:14 | 1       |



# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-1North-75**

**Lab Sample ID: 320-57628-5**

Date Collected: 01/09/20 10:37

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result     | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| <b>Perfluorobutanoic acid (PFBA)</b>                     | <b>3.7</b> |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| <b>Perfluorotridecanoic acid (PFTriA)</b>                | <b>2.3</b> |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND         |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND         |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND         |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 6:2 FTS  | ND         |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 8:2 FTS  | ND         |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:30 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C5 PFPeA       | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C2 PFHxA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C4 PFHpA       | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C4 PFOA        | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C5 PFNA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C2 PFDA        | 106       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C2 PFUnA       | 107       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C2 PFDoA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C2 PFTeDA      | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C3 PFBS        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 18O2 PFHxS       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C4 PFOS        | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| 13C8 FOSA        | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| d3-NMeFOSAA      | 113       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| d5-NEtFOSAA      | 113       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| M2-6:2 FTS       | 116       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |
| M2-8:2 FTS       | 120       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:30 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-1North-50**

**Lab Sample ID: 320-57628-6**

Date Collected: 01/09/20 10:35

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 4.7    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 3.3    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:38 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C5 PFPeA       | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C2 PFHxA       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C4 PFHpA       | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C4 PFOA        | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C5 PFNA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C2 PFDA        | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C2 PFUnA       | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C2 PFDoA       | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C2 PFTeDA      | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C3 PFBS        | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 18O2 PFHxS       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C4 PFOS        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| 13C8 FOSA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| d3-NMeFOSAA      | 105       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| d5-NEtFOSAA      | 109       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| M2-6:2 FTS       | 116       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |
| M2-8:2 FTS       | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:38 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-2North-25**

**Lab Sample ID: 320-57628-7**

Date Collected: 01/09/20 10:54

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 4.9    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 4.6    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 2.9    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 1.9    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 2.2    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 2.2    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:46 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 84        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C5 PFPeA       | 89        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C2 PFHxA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C4 PFHpA       | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C4 PFOA        | 103       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C5 PFNA        | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C2 PFDA        | 103       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C2 PFUnA       | 105       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C2 PFDoA       | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C2 PFTeDA      | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C3 PFBS        | 92        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 18O2 PFHxS       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C4 PFOS        | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| 13C8 FOSA        | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| d3-NMeFOSAA      | 115       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| d5-NEtFOSAA      | 121       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| M2-6:2 FTS       | 117       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |
| M2-8:2 FTS       | 116       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:46 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-2North-50**

**Lab Sample ID: 320-57628-8**

Date Collected: 01/09/20 11:00

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 5.0    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 3.9    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 1.9    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 14:54 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 88        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C5 PFPeA       | 87        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C2 PFHxA       | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C4 PFHpA       | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C4 PFOA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C5 PFNA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C2 PFDA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C2 PFUnA       | 107       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C2 PFDoA       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C2 PFTeDA      | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C3 PFBS        | 90        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 18O2 PFHxS       | 92        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C4 PFOS        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| 13C8 FOSA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| d3-NMeFOSAA      | 105       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| d5-NEtFOSAA      | 114       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| M2-6:2 FTS       | 119       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |
| M2-8:2 FTS       | 108       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 14:54 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-2North-75**

**Lab Sample ID: 320-57628-9**

Date Collected: 01/09/20 10:57

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result     | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| <b>Perfluorobutanoic acid (PFBA)</b>                     | <b>4.0</b> |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 6:2 FTS  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 8:2 FTS  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:02 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C5 PFPeA       | 90        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C2 PFHxA       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C4 PFHpA       | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C4 PFOA        | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C5 PFNA        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C2 PFDA        | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C2 PFUnA       | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C2 PFDoA       | 103       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C2 PFTeDA      | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C3 PFBS        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 18O2 PFHxS       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C4 PFOS        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| 13C8 FOSA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| d3-NMeFOSAA      | 109       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| d5-NEtFOSAA      | 116       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| M2-6:2 FTS       | 115       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |
| M2-8:2 FTS       | 119       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:02 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-3North-25**

**Lab Sample ID: 320-57628-10**

Date Collected: 01/09/20 11:25

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 4.8    |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 4.3    |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 2.6    |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 1.8    |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 6:2 FTS  | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 8:2 FTS  | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:10 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 84        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C5 PFPeA       | 85        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C2 PFHxA       | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C4 PFHpA       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C4 PFOA        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C5 PFNA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C2 PFDA        | 92        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C2 PFUnA       | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C2 PFDoA       | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C2 PFTeDA      | 106       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C3 PFBS        | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 18O2 PFHxS       | 89        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C4 PFOS        | 90        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| 13C8 FOSA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| d3-NMeFOSAA      | 105       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| d5-NEtFOSAA      | 111       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| M2-6:2 FTS       | 112       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |
| M2-8:2 FTS       | 109       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:10 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-3North-50**

**Lab Sample ID: 320-57628-11**

**Date Collected: 01/09/20 11:24**

**Matrix: Water**

**Date Received: 01/10/20 09:15**

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 5.1    |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 3.3    |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.8 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 6:2 FTS  | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 8:2 FTS  | ND     |           | 18  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:19 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 88        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C5 PFPeA       | 87        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C2 PFHxA       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C4 PFHpA       | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C4 PFOA        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C5 PFNA        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C2 PFDA        | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C2 PFUnA       | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C2 PFDoA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C2 PFTeDA      | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C3 PFBS        | 87        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 18O2 PFHxS       | 90        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C4 PFOS        | 91        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| 13C8 FOSA        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| d3-NMeFOSAA      | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| d5-NEtFOSAA      | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| M2-6:2 FTS       | 113       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |
| M2-8:2 FTS       | 107       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:19 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-1RAW**

**Lab Sample ID: 320-57628-12**

**Date Collected: 01/09/20 12:00**

**Matrix: Water**

**Date Received: 01/10/20 09:15**

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

| Analyte  | Result     | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| <b>Perfluorobutanoic acid (PFBA)</b>                     | <b>6.0</b> |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| <b>Perfluorooctanoic acid (PFOA)</b>                     | <b>2.4</b> |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| <b>Perfluorobutanesulfonic acid (PFBS)</b>               | <b>2.7</b> |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| <b>Perfluorohexanesulfonic acid (PFHxS)</b>              | <b>2.9</b> |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| <b>Perfluorooctanesulfonic acid (PFOS)</b>               | <b>3.3</b> |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 6:2 FTS  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 8:2 FTS  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:27 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 82        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C5 PFPeA       | 89        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C2 PFHxA       | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C4 PFHpA       | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C4 PFOA        | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C5 PFNA        | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C2 PFDA        | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C2 PFUnA       | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C2 PFDoA       | 106       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C2 PFTeDA      | 104       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C3 PFBS        | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 18O2 PFHxS       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C4 PFOS        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| 13C8 FOSA        | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| d3-NMeFOSAA      | 113       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| d5-NEtFOSAA      | 114       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| M2-6:2 FTS       | 111       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |
| M2-8:2 FTS       | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:27 | 1       |

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-2RAW**

**Lab Sample ID: 320-57628-13**

Date Collected: 01/09/20 12:08

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 5.2    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 5.1    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 3.4    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 2.2    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 3.5    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 3.4    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 2.4    |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 1.9 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 6:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 8:2 FTS  | ND     |           | 19  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 15:35 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 84        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C5 PFPeA       | 89        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C2 PFHxA       | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C4 PFHpA       | 98        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C4 PFOA        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C5 PFNA        | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C2 PFDA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C2 PFUnA       | 108       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C2 PFDoA       | 100       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C2 PFTeDA      | 103       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C3 PFBS        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 18O2 PFHxS       | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C4 PFOS        | 97        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| 13C8 FOSA        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| d3-NMeFOSAA      | 108       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| d5-NEtFOSAA      | 112       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| M2-6:2 FTS       | 117       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |
| M2-8:2 FTS       | 115       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 15:35 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-3RAW**

**Lab Sample ID: 320-57628-14**

Date Collected: 01/09/20 11:44

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
| Perfluorobutanoic acid (PFBA)                            | 4.9    |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | 7.8    |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | 5.6    |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | 2.8    |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorooctanoic acid (PFOA)                            | 3.9    |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | 4.6    |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | 7.7    |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 20  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 20  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 6:2 FTS  | ND     |           | 20  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 8:2 FTS  | ND     |           | 20  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:43 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 76        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C5 PFPeA       | 88        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C2 PFHxA       | 93        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C4 PFHpA       | 96        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C4 PFOA        | 94        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C5 PFNA        | 95        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C2 PFDA        | 95        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C2 PFUnA       | 96        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C2 PFDoA       | 91        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C2 PFTeDA      | 95        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C3 PFBS        | 91        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 18O2 PFHxS       | 92        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C4 PFOS        | 92        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| 13C8 FOSA        | 99        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| d3-NMeFOSAA      | 114       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| d5-NEtFOSAA      | 106       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| M2-6:2 FTS       | 122       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |
| M2-8:2 FTS       | 127       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:43 | 1       |

# Client Sample Results

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-3North-75**

**Lab Sample ID: 320-57628-15**

Date Collected: 01/09/20 11:26

Matrix: Water

Date Received: 01/10/20 09:15

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

| Analyte  | Result     | Qualifier | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|------------|-----------|-----|-----|------|---|----------------|----------------|---------|
| <b>Perfluorobutanoic acid (PFBA)</b>                     | <b>3.6</b> |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND         |           | 1.9 |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND         |           | 19  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 6:2 FTS  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 8:2 FTS  | ND         |           | 19  |     | ng/L |   | 01/21/20 06:06 | 01/22/20 15:59 | 1       |

| Isotope Dilution | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
| 13C4 PFBA        | 95        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C5 PFPeA       | 92        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C2 PFHxA       | 101       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C4 PFHpA       | 100       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C4 PFOA        | 99        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C5 PFNA        | 101       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C2 PFDA        | 99        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C2 PFUnA       | 107       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C2 PFDoA       | 98        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C2 PFTeDA      | 107       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C3 PFBS        | 97        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 18O2 PFHxS       | 96        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C4 PFOS        | 95        |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| 13C8 FOSA        | 102       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| d3-NMeFOSAA      | 114       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| d5-NEtFOSAA      | 117       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| M2-6:2 FTS       | 122       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |
| M2-8:2 FTS       | 120       |           | 25 - 150 | 01/21/20 06:06 | 01/22/20 15:59 | 1       |

# Isotope Dilution Summary

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

Job ID: 320-57628-1

## 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<br>(25-150)                                      | PFPeA<br>(25-150) | PFHxA<br>(25-150) | PFHpA<br>(25-150) | PFOA<br>(25-150) | PFNA<br>(25-150) | PFDA<br>(25-150) | PFUnA<br>(25-150) |
| 320-57628-1        | BH20200109PRE-GAC     | 83  | 91                | 98                | 98                | 101              | 98               | 99               | 106               |
| 320-57628-2        | BH20200109POST-GAC    | 95  | 91                | 98                | 96                | 99               | 97               | 98               | 105               |
| 320-57628-2 MS     | BH20200109POST-GAC    | 94  | 89                | 96                | 99                | 99               | 99               | 98               | 100               |
| 320-57628-2 MSD    | BH20200109POST-GAC    | 97  | 93                | 100               | 98                | 105              | 102              | 97               | 99                |
| 320-57628-3        | BH20200109POST-GACDUP | 90  | 89                | 94                | 94                | 98               | 94               | 90               | 103               |
| 320-57628-4        | BH20200109-1North-25  | 81  | 83                | 88                | 90                | 97               | 93               | 95               | 98                |
| 320-57628-5        | BH20200109-1North-75  | 98  | 93                | 98                | 102               | 99               | 97               | 106              | 107               |
| 320-57628-6        | BH20200109-1North-50  | 93  | 91                | 95                | 97                | 100              | 98               | 100              | 101               |
| 320-57628-7        | BH20200109-2North-25  | 84  | 89                | 98                | 97                | 103              | 100              | 103              | 105               |
| 320-57628-8        | BH20200109-2North-50  | 88  | 87                | 93                | 97                | 97               | 97               | 98               | 107               |
| 320-57628-9        | BH20200109-2North-75  | 94  | 90                | 95                | 99                | 102              | 96               | 98               | 100               |
| 320-57628-10       | BH20200109-3North-25  | 84  | 85                | 93                | 94                | 96               | 95               | 92               | 99                |
| 320-57628-11       | BH20200109-3North-50  | 88  | 87                | 94                | 93                | 96               | 97               | 91               | 96                |
| 320-57628-12       | BH20200109-1RAW       | 82  | 89                | 97                | 99                | 102              | 101              | 100              | 101               |
| 320-57628-13       | BH20200109-2RAW       | 84  | 89                | 96                | 98                | 96               | 94               | 95               | 108               |
| 320-57628-14       | BH20200109-3RAW       | 76  | 88                | 93                | 96                | 94               | 95               | 95               | 96                |
| 320-57628-15       | BH20200109-3North-75  | 95  | 92                | 101               | 100               | 99               | 101              | 99               | 107               |
| LCS 320-351985/2-A | Lab Control Sample    | 93  | 90                | 94                | 97                | 99               | 95               | 96               | 94                |
| MB 320-351985/1-A  | Method Blank          | 95  | 95                | 101               | 99                | 99               | 94               | 95               | 102               |

| Lab Sample ID      | Client Sample ID      | Percent Isotope Dilution Recovery (Acceptance Limits) |                   |                     |                   |                  |                   |                     |                     |
|--------------------|-----------------------|---|-------------------|---------------------|-------------------|------------------|-------------------|---------------------|---------------------|
|                    |                       | PFDaA<br>(25-150)                                     | PFTDA<br>(25-150) | 3C3-PFB<br>(25-150) | PFHxS<br>(25-150) | PFOS<br>(25-150) | PFOSA<br>(25-150) | -NMeFOS<br>(25-150) | -NEtFOS<br>(25-150) |
| 320-57628-1        | BH20200109PRE-GAC     | 98  | 101               | 95                  | 95                | 98               | 99                | 102                 | 111                 |
| 320-57628-2        | BH20200109POST-GAC    | 105   | 99                | 96                  | 94                | 97               | 98                | 103                 | 107                 |
| 320-57628-2 MS     | BH20200109POST-GAC    | 94  | 104               | 94                  | 94                | 94               | 97                | 103                 | 106                 |
| 320-57628-2 MSD    | BH20200109POST-GAC    | 103   | 102               | 93                  | 95                | 99               | 100               | 110                 | 115                 |
| 320-57628-3        | BH20200109POST-GACDUP | 96  | 97                | 92                  | 96                | 95               | 97                | 111                 | 114                 |
| 320-57628-4        | BH20200109-1North-25  | 95  | 94                | 86                  | 87                | 92               | 95                | 104                 | 115                 |
| 320-57628-5        | BH20200109-1North-75  | 98  | 101               | 96                  | 95                | 99               | 100               | 113                 | 113                 |
| 320-57628-6        | BH20200109-1North-50  | 99  | 101               | 91                  | 94                | 95               | 97                | 105                 | 109                 |
| 320-57628-7        | BH20200109-2North-25  | 102   | 110               | 92                  | 94                | 94               | 100               | 115                 | 121                 |
| 320-57628-8        | BH20200109-2North-50  | 95  | 95                | 90                  | 92                | 93               | 97                | 105                 | 114                 |
| 320-57628-9        | BH20200109-2North-75  | 103   | 100               | 93                  | 94                | 93               | 97                | 109                 | 116                 |
| 320-57628-10       | BH20200109-3North-25  | 93  | 106               | 91                  | 89                | 90               | 95                | 105                 | 111                 |
| 320-57628-11       | BH20200109-3North-50  | 98  | 91                | 87                  | 90                | 91               | 93                | 102                 | 110                 |
| 320-57628-12       | BH20200109-1RAW       | 106   | 104               | 94                  | 95                | 97               | 100               | 113                 | 114                 |
| 320-57628-13       | BH20200109-2RAW       | 100   | 103               | 93                  | 93                | 97               | 96                | 108                 | 112                 |
| 320-57628-14       | BH20200109-3RAW       | 91  | 95                | 91                  | 92                | 92               | 99                | 114                 | 106                 |
| 320-57628-15       | BH20200109-3North-75  | 98  | 107               | 97                  | 96                | 95               | 102               | 114                 | 117                 |
| LCS 320-351985/2-A | Lab Control Sample    | 92  | 100               | 92                  | 90                | 95               | 96                | 101                 | 108                 |
| MB 320-351985/1-A  | Method Blank          | 104   | 110               | 96                  | 94                | 93               | 99                | 102                 | 114                 |

| Lab Sample ID   | Client Sample ID      | Percent Isotope Dilution Recovery (Acceptance Limits) |                     |
|-----------------|-----------------------|---|---------------------|
|                 |                       | M262FTS<br>(25-150)                                   | M282FTS<br>(25-150) |
| 320-57628-1     | BH20200109PRE-GAC     | 110   | 111                 |
| 320-57628-2     | BH20200109POST-GAC    | 110   | 107                 |
| 320-57628-2 MS  | BH20200109POST-GAC    | 101   | 101                 |
| 320-57628-2 MSD | BH20200109POST-GAC    | 108   | 104                 |
| 320-57628-3     | BH20200109POST-GACDUP | 116   | 112                 |

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# Isotope Dilution Summary

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

Job ID: 320-57628-1

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

**Matrix: Water**

**Prep Type: Total/NA**

**Percent Isotope Dilution Recovery (Acceptance Limits)**

| Lab Sample ID      | Client Sample ID     | Percent Isotope Dilution Recovery (Acceptance Limits) |                     |
|--------------------|----------------------|---|---------------------|
|                    |                      | M262FTS<br>(25-150)                                   | M282FTS<br>(25-150) |
| 320-57628-4        | BH20200109-1North-25 | 144   | 110                 |
| 320-57628-5        | BH20200109-1North-75 | 116   | 120                 |
| 320-57628-6        | BH20200109-1North-50 | 116   | 110                 |
| 320-57628-7        | BH20200109-2North-25 | 117   | 116                 |
| 320-57628-8        | BH20200109-2North-50 | 119   | 108                 |
| 320-57628-9        | BH20200109-2North-75 | 115   | 119                 |
| 320-57628-10       | BH20200109-3North-25 | 112   | 109                 |
| 320-57628-11       | BH20200109-3North-50 | 113   | 107                 |
| 320-57628-12       | BH20200109-1RAW      | 111   | 110                 |
| 320-57628-13       | BH20200109-2RAW      | 117   | 115                 |
| 320-57628-14       | BH20200109-3RAW      | 122   | 127                 |
| 320-57628-15       | BH20200109-3North-75 | 122   | 120                 |
| LCS 320-351985/2-A | Lab Control Sample   | 103   | 106                 |
| MB 320-351985/1-A  | Method Blank         | 107   | 106                 |

**Surrogate Legend**

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- PFHpA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- 13C3-PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3-NMeFOSAA = d3-NMeFOSAA
- d5-NEtFOSAA = d5-NEtFOSAA
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS

# QC Sample Results

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

Job ID: 320-57628-1

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

**Lab Sample ID: MB 320-351985/1-A**  
**Matrix: Water**  
**Analysis Batch: 352387**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 351985**

| Analyte  | MB     | MB        | RL  | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|--|--------|-----------|-----|-----|------|---|----------------|----------------|---------|
|  | Result | Qualifier |     |     |      |   |                |                |         |
| Perfluorobutanoic acid (PFBA)                            | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluoropentanoic acid (PFPeA)                          | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorohexanoic acid (PFHxA)                           | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluoroheptanoic acid (PFHpA)                          | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorooctanoic acid (PFOA)                            | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorononanoic acid (PFNA)                            | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorodecanoic acid (PFDA)                            | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluoroundecanoic acid (PFUnA)                         | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorododecanoic acid (PFDoA)                         | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorotridecanoic acid (PFTriA)                       | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorotetradecanoic acid (PFTeA)                      | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorobutanesulfonic acid (PFBS)                      | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorooctanesulfonic acid (PFOS)                      | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorodecanesulfonic acid (PFDS)                      | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| Perfluorooctanesulfonamide (FOSA)                        | ND     |           | 2.0 |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND     |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND     |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 6:2 FTS  | ND     |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 8:2 FTS  | ND     |           | 20  |     | ng/L |   | 01/21/20 06:05 | 01/22/20 13:17 | 1       |

| Isotope Dilution | MB        | MB        | Limits   | Prepared       | Analyzed       | Dil Fac |
|------------------|-----------|-----------|----------|----------------|----------------|---------|
|                  | %Recovery | Qualifier |          |                |                |         |
| 13C4 PFBA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C5 PFPeA       | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C2 PFHxA       | 101       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C4 PFHpA       | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C4 PFOA        | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C5 PFNA        | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C2 PFDA        | 95        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C2 PFUnA       | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C2 PFDoA       | 104       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C2 PFTeDA      | 110       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C3 PFBS        | 96        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 18O2 PFHxS       | 94        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C4 PFOS        | 93        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| 13C8 FOSA        | 99        |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| d3-NMeFOSAA      | 102       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| d5-NEtFOSAA      | 114       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| M2-6:2 FTS       | 107       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |
| M2-8:2 FTS       | 106       |           | 25 - 150 | 01/21/20 06:05 | 01/22/20 13:17 | 1       |

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# QC Sample Results

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

Job ID: 320-57628-1

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

**Lab Sample ID: LCS 320-351985/2-A**  
**Matrix: Water**  
**Analysis Batch: 352387**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 351985**  
**%Rec. Limits**

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits   |
|--|-------------|------------|---------------|------|---|------|----------|
| Perfluorobutanoic acid (PFBA)                            | 40.0        | 46.6       |               | ng/L |   | 116  | 76 - 136 |
| Perfluoropentanoic acid (PFPeA)                          | 40.0        | 44.9       |               | ng/L |   | 112  | 71 - 131 |
| Perfluorohexanoic acid (PFHxA)                           | 40.0        | 43.8       |               | ng/L |   | 110  | 73 - 133 |
| Perfluoroheptanoic acid (PFHpA)                          | 40.0        | 42.8       |               | ng/L |   | 107  | 72 - 132 |
| Perfluorooctanoic acid (PFOA)                            | 40.0        | 42.1       |               | ng/L |   | 105  | 70 - 130 |
| Perfluorononanoic acid (PFNA)                            | 40.0        | 46.3       |               | ng/L |   | 116  | 75 - 135 |
| Perfluorodecanoic acid (PFDA)                            | 40.0        | 42.9       |               | ng/L |   | 107  | 76 - 136 |
| Perfluoroundecanoic acid (PFUnA)                         | 40.0        | 44.2       |               | ng/L |   | 110  | 68 - 128 |
| Perfluorododecanoic acid (PFDoA)                         | 40.0        | 45.0       |               | ng/L |   | 112  | 71 - 131 |
| Perfluorotridecanoic acid (PFTriA)                       | 40.0        | 48.2       |               | ng/L |   | 121  | 71 - 131 |
| Perfluorotetradecanoic acid (PFTeA)                      | 40.0        | 42.1       |               | ng/L |   | 105  | 70 - 130 |
| Perfluorobutanesulfonic acid (PFBS)                      | 35.4        | 39.4       |               | ng/L |   | 112  | 67 - 127 |
| Perfluorohexanesulfonic acid (PFHxS)                     | 36.4        | 39.4       |               | ng/L |   | 108  | 59 - 119 |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | 38.1        | 44.0       |               | ng/L |   | 116  | 76 - 136 |
| Perfluorooctanesulfonic acid (PFOS)                      | 37.1        | 41.3       |               | ng/L |   | 111  | 70 - 130 |
| Perfluorodecanesulfonic acid (PFDS)                      | 38.6        | 42.4       |               | ng/L |   | 110  | 71 - 131 |
| Perfluorooctanesulfonamide (FOSA)                        | 40.0        | 45.1       |               | ng/L |   | 113  | 73 - 133 |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | 40.0        | 42.9       |               | ng/L |   | 107  | 76 - 136 |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | 40.0        | 43.2       |               | ng/L |   | 108  | 76 - 136 |
| 6:2 FTS  | 37.9        | 37.0       |               | ng/L |   | 98   | 59 - 175 |
| 8:2 FTS  | 38.3        | 37.9       |               | ng/L |   | 99   | 75 - 135 |

| Isotope Dilution | LCS LCS   |           | Limits   |
|------------------|-----------|-----------|----------|
|                  | %Recovery | Qualifier |          |
| 13C4 PFBA        | 93        |           | 25 - 150 |
| 13C5 PFPeA       | 90        |           | 25 - 150 |
| 13C2 PFHxA       | 94        |           | 25 - 150 |
| 13C4 PFHpA       | 97        |           | 25 - 150 |
| 13C4 PFOA        | 99        |           | 25 - 150 |
| 13C5 PFNA        | 95        |           | 25 - 150 |
| 13C2 PFDA        | 96        |           | 25 - 150 |
| 13C2 PFUnA       | 94        |           | 25 - 150 |
| 13C2 PFDoA       | 92        |           | 25 - 150 |
| 13C2 PFTeDA      | 100       |           | 25 - 150 |
| 13C3 PFBS        | 92        |           | 25 - 150 |
| 18O2 PFHxS       | 90        |           | 25 - 150 |
| 13C4 PFOS        | 95        |           | 25 - 150 |
| 13C8 FOSA        | 96        |           | 25 - 150 |
| d3-NMeFOSAA      | 101       |           | 25 - 150 |
| d5-NEtFOSAA      | 108       |           | 25 - 150 |

# QC Sample Results

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

Job ID: 320-57628-1

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

**Lab Sample ID: LCS 320-351985/2-A**  
**Matrix: Water**  
**Analysis Batch: 352387**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 351985**

| <i>Isotope Dilution</i> | <i>LCS LCS</i>   |                  | <i>Limits</i> |
|-------------------------|------------------|------------------|---------------|
|                         | <i>%Recovery</i> | <i>Qualifier</i> |               |
| M2-6:2 FTS              | 103              |                  | 25 - 150      |
| M2-8:2 FTS              | 106              |                  | 25 - 150      |

**Lab Sample ID: 320-57628-2 MS**  
**Matrix: Water**  
**Analysis Batch: 352387**

**Client Sample ID: BH20200109POST-GAC**  
**Prep Type: Total/NA**  
**Prep Batch: 351985**

| <i>Analyte</i>   | <i>Sample Result</i> | <i>Sample Qualifier</i> | <i>Spike Added</i> | <i>MS MS</i>  |                  | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>Limits</i> |
|--|----------------------|-------------------------|--------------------|---------------|------------------|-------------|----------|-------------|---------------|
|  |                      |                         |                    | <i>Result</i> | <i>Qualifier</i> |             |          |             |               |
| Perfluorobutanoic acid (PFBA)                            | ND                   |                         | 36.9               | 43.0          |                  | ng/L        |          | 115         | 76 - 136      |
| Perfluoropentanoic acid (PFPeA)                          | ND                   |                         | 36.9               | 40.5          |                  | ng/L        |          | 110         | 71 - 131      |
| Perfluorohexanoic acid (PFHxA)                           | ND                   |                         | 36.9               | 39.2          |                  | ng/L        |          | 106         | 73 - 133      |
| Perfluoroheptanoic acid (PFHpA)                          | ND                   |                         | 36.9               | 39.7          |                  | ng/L        |          | 108         | 72 - 132      |
| Perfluorooctanoic acid (PFOA)                            | ND                   |                         | 36.9               | 36.8          |                  | ng/L        |          | 100         | 70 - 130      |
| Perfluorononanoic acid (PFNA)                            | ND                   |                         | 36.9               | 41.9          |                  | ng/L        |          | 113         | 75 - 135      |
| Perfluorodecanoic acid (PFDA)                            | ND                   |                         | 36.9               | 39.4          |                  | ng/L        |          | 107         | 76 - 136      |
| Perfluoroundecanoic acid (PFUnA)                         | ND                   |                         | 36.9               | 37.4          |                  | ng/L        |          | 101         | 68 - 128      |
| Perfluorododecanoic acid (PFDoA)                         | ND                   |                         | 36.9               | 38.0          |                  | ng/L        |          | 103         | 71 - 131      |
| Perfluorotridecanoic acid (PFTriA)                       | ND                   |                         | 36.9               | 44.6          |                  | ng/L        |          | 121         | 71 - 131      |
| Perfluorotetradecanoic acid (PFTeA)                      | ND                   |                         | 36.9               | 42.2          |                  | ng/L        |          | 114         | 70 - 130      |
| Perfluorobutanesulfonic acid (PFBS)                      | ND                   |                         | 32.6               | 35.4          |                  | ng/L        |          | 109         | 67 - 127      |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND                   |                         | 33.6               | 35.5          |                  | ng/L        |          | 105         | 59 - 119      |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND                   |                         | 35.2               | 41.1          |                  | ng/L        |          | 117         | 76 - 136      |
| Perfluorooctanesulfonic acid (PFOS)                      | ND                   |                         | 34.3               | 38.6          |                  | ng/L        |          | 113         | 70 - 130      |
| Perfluorodecanesulfonic acid (PFDS)                      | ND                   |                         | 35.6               | 39.9          |                  | ng/L        |          | 112         | 71 - 131      |
| Perfluorooctanesulfonamide (FOSA)                        | ND                   |                         | 36.9               | 41.1          |                  | ng/L        |          | 111         | 73 - 133      |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND                   |                         | 36.9               | 40.0          |                  | ng/L        |          | 108         | 76 - 136      |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND                   |                         | 36.9               | 41.2          |                  | ng/L        |          | 112         | 76 - 136      |
| 6:2 FTS  | ND                   |                         | 35.0               | 36.9          |                  | ng/L        |          | 105         | 59 - 175      |
| 8:2 FTS  | ND                   |                         | 35.4               | 35.7          |                  | ng/L        |          | 101         | 75 - 135      |

| <i>Isotope Dilution</i> | <i>MS MS</i>     |                  | <i>Limits</i> |
|-------------------------|------------------|------------------|---------------|
|                         | <i>%Recovery</i> | <i>Qualifier</i> |               |
| 13C4 PFBA               | 94               |                  | 25 - 150      |
| 13C5 PFPeA              | 89               |                  | 25 - 150      |
| 13C2 PFHxA              | 96               |                  | 25 - 150      |
| 13C4 PFHpA              | 99               |                  | 25 - 150      |
| 13C4 PFOA               | 99               |                  | 25 - 150      |
| 13C5 PFNA               | 99               |                  | 25 - 150      |
| 13C2 PFDA               | 98               |                  | 25 - 150      |
| 13C2 PFUnA              | 100              |                  | 25 - 150      |
| 13C2 PFDoA              | 94               |                  | 25 - 150      |

Eurofins TestAmerica, Sacramento



# QC Sample Results

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

Job ID: 320-57628-1

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

**Lab Sample ID: 320-57628-2 MS**  
**Matrix: Water**  
**Analysis Batch: 352387**

**Client Sample ID: BH20200109POST-GAC**  
**Prep Type: Total/NA**  
**Prep Batch: 351985**

| <i>Isotope Dilution</i> | <i>MS</i><br><i>%Recovery</i> | <i>MS</i><br><i>Qualifier</i> | <i>Limits</i> |
|-------------------------|-------------------------------|-------------------------------|---------------|
| 13C2 PFTeDA             | 104                           |                               | 25 - 150      |
| 13C3 PFBS               | 94                            |                               | 25 - 150      |
| 18O2 PFHxS              | 94                            |                               | 25 - 150      |
| 13C4 PFOS               | 94                            |                               | 25 - 150      |
| 13C8 FOSA               | 97                            |                               | 25 - 150      |
| d3-NMeFOSAA             | 103                           |                               | 25 - 150      |
| d5-NEtFOSAA             | 106                           |                               | 25 - 150      |
| M2-6:2 FTS              | 101                           |                               | 25 - 150      |
| M2-8:2 FTS              | 101                           |                               | 25 - 150      |

**Lab Sample ID: 320-57628-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 352387**

**Client Sample ID: BH20200109POST-GAC**  
**Prep Type: Total/NA**  
**Prep Batch: 351985**

| <i>Analyte</i>   | <i>Sample</i><br><i>Result</i> | <i>Sample</i><br><i>Qualifier</i> | <i>Spike</i><br><i>Added</i> | <i>MSD</i><br><i>Result</i> | <i>MSD</i><br><i>Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec.</i><br><i>Limits</i> | <i>RPD</i> | <i>RPD</i><br><i>Limit</i> |
|--|--------------------------------|-----------------------------------|------------------------------|-----------------------------|--------------------------------|-------------|----------|-------------|-------------------------------|------------|----------------------------|
| Perfluorobutanoic acid (PFBA)                            | ND                             |                                   | 38.0                         | 44.3                        |                                | ng/L        |          | 115         | 76 - 136                      | 3          | 30                         |
| Perfluoropentanoic acid (PFPeA)                          | ND                             |                                   | 38.0                         | 42.1                        |                                | ng/L        |          | 111         | 71 - 131                      | 4          | 30                         |
| Perfluorohexanoic acid (PFHxA)                           | ND                             |                                   | 38.0                         | 41.0                        |                                | ng/L        |          | 108         | 73 - 133                      | 5          | 30                         |
| Perfluoroheptanoic acid (PFHpA)                          | ND                             |                                   | 38.0                         | 43.6                        |                                | ng/L        |          | 115         | 72 - 132                      | 9          | 30                         |
| Perfluorooctanoic acid (PFOA)                            | ND                             |                                   | 38.0                         | 37.6                        |                                | ng/L        |          | 99          | 70 - 130                      | 2          | 30                         |
| Perfluorononanoic acid (PFNA)                            | ND                             |                                   | 38.0                         | 45.3                        |                                | ng/L        |          | 119         | 75 - 135                      | 8          | 30                         |
| Perfluorodecanoic acid (PFDA)                            | ND                             |                                   | 38.0                         | 41.5                        |                                | ng/L        |          | 109         | 76 - 136                      | 5          | 30                         |
| Perfluoroundecanoic acid (PFUnA)                         | ND                             |                                   | 38.0                         | 42.2                        |                                | ng/L        |          | 111         | 68 - 128                      | 12         | 30                         |
| Perfluorododecanoic acid (PFDoA)                         | ND                             |                                   | 38.0                         | 39.5                        |                                | ng/L        |          | 104         | 71 - 131                      | 4          | 30                         |
| Perfluorotridecanoic acid (PFTriA)                       | ND                             |                                   | 38.0                         | 43.4                        |                                | ng/L        |          | 114         | 71 - 131                      | 3          | 30                         |
| Perfluorotetradecanoic acid (PFTeA)                      | ND                             |                                   | 38.0                         | 43.8                        |                                | ng/L        |          | 115         | 70 - 130                      | 4          | 30                         |
| Perfluorobutanesulfonic acid (PFBS)                      | ND                             |                                   | 33.6                         | 39.2                        |                                | ng/L        |          | 117         | 67 - 127                      | 10         | 30                         |
| Perfluorohexanesulfonic acid (PFHxS)                     | ND                             |                                   | 34.6                         | 36.3                        |                                | ng/L        |          | 104         | 59 - 119                      | 2          | 30                         |
| Perfluoroheptanesulfonic Acid (PFHpS)                    | ND                             |                                   | 36.2                         | 41.0                        |                                | ng/L        |          | 113         | 76 - 136                      | 0          | 30                         |
| Perfluorooctanesulfonic acid (PFOS)                      | ND                             |                                   | 35.3                         | 39.3                        |                                | ng/L        |          | 112         | 70 - 130                      | 2          | 30                         |
| Perfluorodecanesulfonic acid (PFDS)                      | ND                             |                                   | 36.6                         | 40.8                        |                                | ng/L        |          | 111         | 71 - 131                      | 2          | 30                         |
| Perfluorooctanesulfonamide (FOSA)                        | ND                             |                                   | 38.0                         | 42.0                        |                                | ng/L        |          | 111         | 73 - 133                      | 2          | 30                         |
| N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA) | ND                             |                                   | 38.0                         | 42.7                        |                                | ng/L        |          | 112         | 76 - 136                      | 7          | 30                         |
| N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)  | ND                             |                                   | 38.0                         | 42.0                        |                                | ng/L        |          | 110         | 76 - 136                      | 2          | 30                         |
| 6:2 FTS  | ND                             |                                   | 36.0                         | 35.6                        |                                | ng/L        |          | 99          | 59 - 175                      | 4          | 30                         |
| 8:2 FTS  | ND                             |                                   | 36.4                         | 39.4                        |                                | ng/L        |          | 108         | 75 - 135                      | 10         | 30                         |

| <i>Isotope Dilution</i> | <i>MSD</i><br><i>%Recovery</i> | <i>MSD</i><br><i>Qualifier</i> | <i>Limits</i> |
|-------------------------|--------------------------------|--------------------------------|---------------|
| 13C4 PFBA               | 97                             |                                | 25 - 150      |
| 13C5 PFPeA              | 93                             |                                | 25 - 150      |

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-57628-1

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

Lab Sample ID: 320-57628-2 MSD

Matrix: Water

Analysis Batch: 352387

Client Sample ID: BH20200109POST-GAC

Prep Type: Total/NA

Prep Batch: 351985

| <i>Isotope Dilution</i> | <i>MSD<br/>%Recovery</i> | <i>MSD<br/>Qualifier</i> | <i>Limits</i> |
|-------------------------|--------------------------|--------------------------|---------------|
| 13C2 PFHxA              | 100                      |                          | 25 - 150      |
| 13C4 PFHpA              | 98                       |                          | 25 - 150      |
| 13C4 PFOA               | 105                      |                          | 25 - 150      |
| 13C5 PFNA               | 102                      |                          | 25 - 150      |
| 13C2 PFDA               | 97                       |                          | 25 - 150      |
| 13C2 PFUnA              | 99                       |                          | 25 - 150      |
| 13C2 PFDoA              | 103                      |                          | 25 - 150      |
| 13C2 PFTeDA             | 102                      |                          | 25 - 150      |
| 13C3 PFBS               | 93                       |                          | 25 - 150      |
| 18O2 PFHxS              | 95                       |                          | 25 - 150      |
| 13C4 PFOS               | 99                       |                          | 25 - 150      |
| 13C8 FOSA               | 100                      |                          | 25 - 150      |
| d3-NMeFOSAA             | 110                      |                          | 25 - 150      |
| d5-NEtFOSAA             | 115                      |                          | 25 - 150      |
| M2-6:2 FTS              | 108                      |                          | 25 - 150      |
| M2-8:2 FTS              | 104                      |                          | 25 - 150      |

# QC Association Summary

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

Job ID: 320-57628-1

## LCMS

### Prep Batch: 351985

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method | Prep Batch |
|--------------------|-----------------------|-----------|--------|--------|------------|
| 320-57628-1        | BH20200109PRE-GAC     | Total/NA  | Water  | 3535   |            |
| 320-57628-2        | BH20200109POST-GAC    | Total/NA  | Water  | 3535   |            |
| 320-57628-3        | BH20200109POST-GACDUP | Total/NA  | Water  | 3535   |            |
| 320-57628-4        | BH20200109-1North-25  | Total/NA  | Water  | 3535   |            |
| 320-57628-5        | BH20200109-1North-75  | Total/NA  | Water  | 3535   |            |
| 320-57628-6        | BH20200109-1North-50  | Total/NA  | Water  | 3535   |            |
| 320-57628-7        | BH20200109-2North-25  | Total/NA  | Water  | 3535   |            |
| 320-57628-8        | BH20200109-2North-50  | Total/NA  | Water  | 3535   |            |
| 320-57628-9        | BH20200109-2North-75  | Total/NA  | Water  | 3535   |            |
| 320-57628-10       | BH20200109-3North-25  | Total/NA  | Water  | 3535   |            |
| 320-57628-11       | BH20200109-3North-50  | Total/NA  | Water  | 3535   |            |
| 320-57628-12       | BH20200109-1RAW       | Total/NA  | Water  | 3535   |            |
| 320-57628-13       | BH20200109-2RAW       | Total/NA  | Water  | 3535   |            |
| 320-57628-14       | BH20200109-3RAW       | Total/NA  | Water  | 3535   |            |
| 320-57628-15       | BH20200109-3North-75  | Total/NA  | Water  | 3535   |            |
| MB 320-351985/1-A  | Method Blank          | Total/NA  | Water  | 3535   |            |
| LCS 320-351985/2-A | Lab Control Sample    | Total/NA  | Water  | 3535   |            |
| 320-57628-2 MS     | BH20200109POST-GAC    | Total/NA  | Water  | 3535   |            |
| 320-57628-2 MSD    | BH20200109POST-GAC    | Total/NA  | Water  | 3535   |            |

### Analysis Batch: 352387

| Lab Sample ID      | Client Sample ID      | Prep Type | Matrix | Method         | Prep Batch |
|--------------------|-----------------------|-----------|--------|----------------|------------|
| 320-57628-1        | BH20200109PRE-GAC     | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-2        | BH20200109POST-GAC    | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-3        | BH20200109POST-GACDUP | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-4        | BH20200109-1North-25  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-5        | BH20200109-1North-75  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-6        | BH20200109-1North-50  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-7        | BH20200109-2North-25  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-8        | BH20200109-2North-50  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-9        | BH20200109-2North-75  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-10       | BH20200109-3North-25  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-11       | BH20200109-3North-50  | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-12       | BH20200109-1RAW       | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-13       | BH20200109-2RAW       | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-14       | BH20200109-3RAW       | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-15       | BH20200109-3North-75  | Total/NA  | Water  | 537 (modified) | 351985     |
| MB 320-351985/1-A  | Method Blank          | Total/NA  | Water  | 537 (modified) | 351985     |
| LCS 320-351985/2-A | Lab Control Sample    | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-2 MS     | BH20200109POST-GAC    | Total/NA  | Water  | 537 (modified) | 351985     |
| 320-57628-2 MSD    | BH20200109POST-GAC    | Total/NA  | Water  | 537 (modified) | 351985     |

# Lab Chronicle

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109PRE-GAC**

**Lab Sample ID: 320-57628-1**

Date Collected: 01/09/20 09:30

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 267.6 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 13:34       | P1N     | TAL SAC |

**Client Sample ID: BH20200109POST-GAC**

**Lab Sample ID: 320-57628-2**

Date Collected: 01/09/20 09:42

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 266.6 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 13:42       | P1N     | TAL SAC |

**Client Sample ID: BH20200109POST-GACDUP**

**Lab Sample ID: 320-57628-3**

Date Collected: 01/09/20 09:50

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 269.4 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 14:06       | P1N     | TAL SAC |

**Client Sample ID: BH20200109-1North-25**

**Lab Sample ID: 320-57628-4**

Date Collected: 01/09/20 10:30

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 261.7 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 14:14       | P1N     | TAL SAC |

**Client Sample ID: BH20200109-1North-75**

**Lab Sample ID: 320-57628-5**

Date Collected: 01/09/20 10:37

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 256.2 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 14:30       | P1N     | TAL SAC |

**Client Sample ID: BH20200109-1North-50**

**Lab Sample ID: 320-57628-6**

Date Collected: 01/09/20 10:35

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 263.7 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 14:38       | P1N     | TAL SAC |

# Lab Chronicle

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

Job ID: 320-57628-1

## Client Sample ID: BH20200109-2North-25

## Lab Sample ID: 320-57628-7

Date Collected: 01/09/20 10:54

Matrix: Water

Date Received: 01/10/20 09:15

| 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 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 14:46       | P1N     | TAL SAC |

## Client Sample ID: BH20200109-2North-50

## Lab Sample ID: 320-57628-8

Date Collected: 01/09/20 11:00

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 266.3 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 14:54       | P1N     | TAL SAC |

## Client Sample ID: BH20200109-2North-75

## Lab Sample ID: 320-57628-9

Date Collected: 01/09/20 10:57

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 266.5 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 15:02       | P1N     | TAL SAC |

## Client Sample ID: BH20200109-3North-25

## Lab Sample ID: 320-57628-10

Date Collected: 01/09/20 11:25

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 270.4 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 15:10       | P1N     | TAL SAC |

## Client Sample ID: BH20200109-3North-50

## Lab Sample ID: 320-57628-11

Date Collected: 01/09/20 11:24

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 270.8 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 15:19       | P1N     | TAL SAC |

## Client Sample ID: BH20200109-1RAW

## Lab Sample ID: 320-57628-12

Date Collected: 01/09/20 12:00

Matrix: Water

Date Received: 01/10/20 09:15

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 267.5 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 15:27       | P1N     | TAL SAC |

# Lab Chronicle

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

Job ID: 320-57628-1

**Client Sample ID: BH20200109-2RAW**

**Lab Sample ID: 320-57628-13**

**Date Collected: 01/09/20 12:08**

**Matrix: Water**

**Date Received: 01/10/20 09:15**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 262.9 mL       | 10 mL        | 351985       | 01/21/20 06:05       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 15:35       | P1N     | TAL SAC |

**Client Sample ID: BH20200109-3RAW**

**Lab Sample ID: 320-57628-14**

**Date Collected: 01/09/20 11:44**

**Matrix: Water**

**Date Received: 01/10/20 09:15**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 254.3 mL       | 10 mL        | 351985       | 01/21/20 06:06       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 15:43       | P1N     | TAL SAC |

**Client Sample ID: BH20200109-3North-75**

**Lab Sample ID: 320-57628-15**

**Date Collected: 01/09/20 11:26**

**Matrix: Water**

**Date Received: 01/10/20 09:15**

| Prep Type | Batch Type | Batch Method   | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|----------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3535           |     |            | 266.7 mL       | 10 mL        | 351985       | 01/21/20 06:06       | AF      | TAL SAC |
| Total/NA  | Analysis   | 537 (modified) |     | 1          |                |              | 352387       | 01/22/20 15:59       | P1N     | 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.  
 Project/Site: Stewart ANGB - Butterhill #336089

Job ID: 320-57628-1

## 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                 | 04-01-20        |

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)                         |

## Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| New York  | NELAP   | 10026                 | 03-31-20        |

# Method Summary

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

Job ID: 320-57628-1

| 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





# Sample Summary

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

Job ID: 320-57628-1

| Lab Sample ID | Client Sample ID      | Matrix | Collected      | Received       | Asset ID |
|---------------|-----------------------|--------|----------------|----------------|----------|
| 320-57628-1   | BH20200109PRE-GAC     | Water  | 01/09/20 09:30 | 01/10/20 09:15 |          |
| 320-57628-2   | BH20200109POST-GAC    | Water  | 01/09/20 09:42 | 01/10/20 09:15 |          |
| 320-57628-3   | BH20200109POST-GACDUP | Water  | 01/09/20 09:50 | 01/10/20 09:15 |          |
| 320-57628-4   | BH20200109-1North-25  | Water  | 01/09/20 10:30 | 01/10/20 09:15 |          |
| 320-57628-5   | BH20200109-1North-75  | Water  | 01/09/20 10:37 | 01/10/20 09:15 |          |
| 320-57628-6   | BH20200109-1North-50  | Water  | 01/09/20 10:35 | 01/10/20 09:15 |          |
| 320-57628-7   | BH20200109-2North-25  | Water  | 01/09/20 10:54 | 01/10/20 09:15 |          |
| 320-57628-8   | BH20200109-2North-50  | Water  | 01/09/20 11:00 | 01/10/20 09:15 |          |
| 320-57628-9   | BH20200109-2North-75  | Water  | 01/09/20 10:57 | 01/10/20 09:15 |          |
| 320-57628-10  | BH20200109-3North-25  | Water  | 01/09/20 11:25 | 01/10/20 09:15 |          |
| 320-57628-11  | BH20200109-3North-50  | Water  | 01/09/20 11:24 | 01/10/20 09:15 |          |
| 320-57628-12  | BH20200109-1RAW       | Water  | 01/09/20 12:00 | 01/10/20 09:15 |          |
| 320-57628-13  | BH20200109-2RAW       | Water  | 01/09/20 12:08 | 01/10/20 09:15 |          |
| 320-57628-14  | BH20200109-3RAW       | Water  | 01/09/20 11:44 | 01/10/20 09:15 |          |
| 320-57628-15  | BH20200109-3North-75  | Water  | 01/09/20 11:26 | 01/10/20 09:15 |          |

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| <b>Client Information</b>   |  | Lab PM: Stone, Judy L                         |  | Carrier Tracking No(s): 480-140156-31229.1                  |  |
| Client Contact: Jeffrey Redfield  |  | E-Mail: judy.stone@testamericainc.com         |  | Page: Page 1 of 2   |  |
| Company: ARCADIS U.S. Inc   |  | Phone: (315) 412-3479                         |  | Job #: 480-140156-31229.1                                   |  |
| Address: 855 Route 146 Suite 210  |  | City: Clifton Park                            |  | State, Zip: NY, 12065                                       |  |
| Phone: 518-402-9813(Tel)  |  | PO #: Standard TAT                            |  | Callout ID: 137349  |  |
| Email: jeffrey.redfield@arcadis.com   |  | Project #: 48020960                           |  | SSOW#:  |  |
| Project Name: Stewart ANGB - Butterhill #336089                                     |  | Site:   |  | Due Date Requested:   |  |
| Sample Identification   |  | Sample Date                                   |  | Sample Time   |  |
| Sample Type (C=Comp, G=grab)  |  | Sample Matrix (Water, Sewer, Effluent, Other) |  | Preservation Code   |  |
| Field Filtered Sample (Yes or No)   |  | Perform MS/MSD (Yes or No)                    |  | FC, DA, P-AS, Standard List (21 analytes)                   |  |
| Total Number of Containers  |  | 353.2, 353.2 Nitrite, Nitrate, Calc           |  | N   |  |
| Special Instructions/Note:  |  | 2 Duplicate                                   |  | 2 Duplicate   |  |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) |  | Return To Client                              |  | Disposal By Lab   |  |
| Special Instructions/QC Requirements:   |  | Empty Kit Relinquished by:                    |  | Date:   |  |
| Relinquished by: <i>Jeffrey Redfield</i>  |  | Date/Time: 1/9/20 1525                        |  | Company: <i>ARCADIS</i>                                     |  |
| Relinquished by: <i>Harold Jackson</i>  |  | Date/Time: 1/9/20 1700                        |  | Company: <i>ARCADIS</i>                                     |  |
| Relinquished by: <i>Harold Jackson</i>  |  | Date/Time: 1/9/20 915                         |  | Company: <i>ETA-Son</i>                                     |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No      |  | Custody Seal No.:                             |  | Cooler Temperature(s) °C and Other Remarks: 1011.4 °C - All |  |



**#224**

|   |  |                                       |  |  |  |
|---|--|---------------------------------------|--|--|--|
| <b>Client Information</b>               |  | Lab PM: Stone, Judy L                 |  | Carrier Tracking No(s): 480-140156-31229.2   |  |
| Company: ARCADIS U.S. Inc               |  | E-Mail: judy.stone@testamericainc.com |  | COC No: 480-140156-31229.2   |  |
| Address: 855 Route 146 Suite 210        |  | Phone: (315) 412-3179                 |  | Page: Page 2 of 2  |  |
| City: Clifton Park                      |  | E-Mail: judy.stone@testamericainc.com |  | Job #:   |  |
| State, Zip: NY, 12065                   |  | Due Date Requested:                   |  | Preservation Codes:  |  |
| Phone: 518-402-9813(Tel)                |  | TAT Requested (days):                 |  | A - HCL<br>B - NaOH<br>C - Zn Acetate<br>D - Nitric Acid<br>E - NaHSO4<br>F - MeOH<br>G - Amchlor<br>H - Ascorbic Acid<br>I - Ice<br>J - DI Water<br>K - EDTA<br>L - EDTA<br>M - Hexane<br>N - None<br>O - AsNaO2<br>P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2O3<br>S - H2SO4<br>T - TSP Dodecahydrate<br>U - Acetone<br>V - MCAA<br>W - pH 4-5<br>X - EDTA<br>Z - other (specify) |  |
| Email: jeffrey.redfield@arcadis.com     |  | Callout ID: 137349                    |  | Other:   |  |
| Project #: 48020960                     |  | WO #:                                 |  | Special Instructions/Note:   |  |
| Site: Stewart ANGB - Butterhill #336089 |  | SSON#:                                |  | Total Number of containers   |  |

| Sample Identification  | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Swill, O-waterfill, BT=This Use, AA=AP) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | PCG, IDA - PFAS, Standard List (21 analytes) | Analysis Requested | Special Instructions/Note |
|------------------------|-------------|-------------|------------------------------|--|-----------------------------------|----------------------------|--|--------------------|---------------------------|
| BH20200109-1 RAW       | 01/09/20    | 1200        | G                            | Water  | XX                                | NN                         | N  |                    |                           |
| BH20200109-2 RAW       | 01/09/20    | 1208        | G                            | Water  | XX                                | NN                         | N  |                    |                           |
| BH20200109-3 RAW       | 01/09/20    | 1144        | G                            | Water  | XX                                | NN                         | N  |                    |                           |
| BH20200109-3 North-75  | 01/09/20    | 1126        | G                            | Water  | XX                                | NN                         | N  |                    |                           |
| BH20200109-Post-GACMS  | 01/09/20    | 0940        | G                            | Water  | XX                                | NN                         | N  |                    |                           |
| BH20200109-Post-GACMSD | 01/09/20    | 0945        | G                            | Water  | XX                                | NN                         | N  |                    |                           |
|                        |             |             |                              | Water  |                                   |                            |  |                    |                           |
|                        |             |             |                              | Water  |                                   |                            |  |                    |                           |
|                        |             |             |                              | Water  |                                   |                            |  |                    |                           |

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

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

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: *Jeffrey Redfield* Date/Time: 1/9/20 1525

Relinquished by: *Karl Jahn* Date/Time: 1/9/20 1700

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Custody Seals Intact:  Yes  No *xx 1/10/20*

Custody Seal No.: \_\_\_\_\_

Relinquished by: *Jeffrey Redfield* Date/Time: 1/9/20 1525

Relinquished by: *Karl Jahn* Date/Time: 1/15/20 915

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: 1.0/1.4° AMM

Special Instructions/QC Requirements: \_\_\_\_\_

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



## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 320-57628-1

**Login Number: 57628**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Oropeza, Salvador**

| 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   | 1138107                            |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                    |
| Samples were received on ice.  | True   |                                    |
| Cooler Temperature is acceptable.  | True   |                                    |
| Cooler Temperature is recorded.  | True   |                                    |
| COC is present.  | True   |                                    |
| COC is filled out in ink and legible.  | True   |                                    |
| COC is filled out with all pertinent information.                                | True   |                                    |
| Is the Field Sampler's name present on COC?                                      | True   |                                    |
| There are no discrepancies between the sample IDs on the containers and the COC. | False  | Refer to job narrative for details |
| Samples are received within Holding Time (Excluding tests with immediate HTs)..  | True   |                                    |
| Sample containers have legible labels.   | True   |                                    |
| Containers are not broken or leaking.  | True   |                                    |
| Sample collection date/times are provided.                                       | True   |                                    |
| Appropriate sample containers are used.  | True   |                                    |
| Sample bottles are completely filled.  | True   |                                    |
| Sample Preservation Verified   | N/A    |                                    |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                    |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |                                    |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True   |                                    |
| Multiphasic samples are not present.   | True   |                                    |
| Samples do not require splitting or compositing.                                 | True   |                                    |
| Sampling Company provided.   | True   |                                    |
| Samples received within 48 hours of sampling.                                    | True   |                                    |
| Samples requiring field filtration have been filtered in the field.              | True   |                                    |
| Chlorine Residual checked.   | N/A    |                                    |