

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 Sample Results
Kroll Well, 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 17, 2020 sampling of the granular activated carbon (GAC) water treatment system by DEC representatives that was installed on the Town of New Windsor (Town) Kroll Well located at 354 Mount Airy Road.

No PFOS or PFOA was detected in the Kroll Well 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 provided to the Town under separate letter in December 2019 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 9 locations:

- pre-treatment (raw untreated water), which has a “RAW WATER” identifier in the Client Sample ID;
- 25 % treatment – lead tank (A-25 identifier);
- 50 % treatment – lead tank (A-50 identifier);
- 75 % treatment – lead tank (A-75 identifier);
- mid-treatment (after the first GAC canister and prior to the second GAC canister), which has a “MID POINT” identifier in the Client Sample ID;
- 25 % treatment – lag tank (B-25 identifier);
- 50 % treatment – lag tank (B-50 identifier);
- 75 % treatment – lag tank (B-75 identifier); and
- post-treatment (after the entire treatment system), which has a “EFFLUENT” identifier in the Client Sample ID.

The 9 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 Jim Hayward, EA Science and Technology (DEC's Project Engineer) at (315) 431-4610 (ext.1857) or jhayward@eaest.com . For weekday or off hour / weekend emergency repair issues, please call DEC's contractor, Steven Phelps of Precision Environmental Services at (518) 528-1427. For questions regarding site-related health concerns, please contact Steve Gagnon of the Orange County DOH at (845) 291-2331 or Dr. Min-Sook Kim of the NYSDOH Bureau of Water Supply Protection at (518) 402-7650; email: min-sook.kim@health.ny.gov .

Sincerely,



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

Enclosures

cc: w/enclosures
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J. Egitto, Town of New Windsor
M. Weeks, MHE
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S. Gagnon, OCDOH
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S. Phelps, PES
M. Cruden, NYSDEC
D. Bendell, Region 3 RHWRE
D. Harrington, NYSDEC

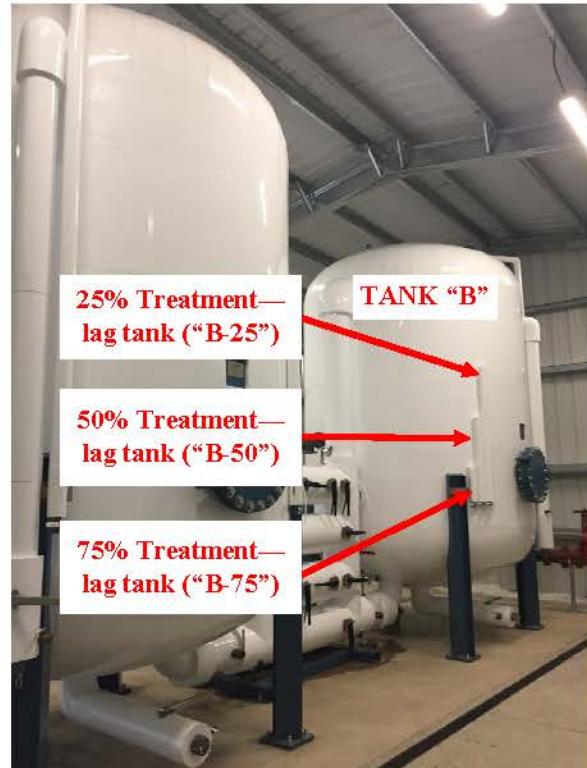
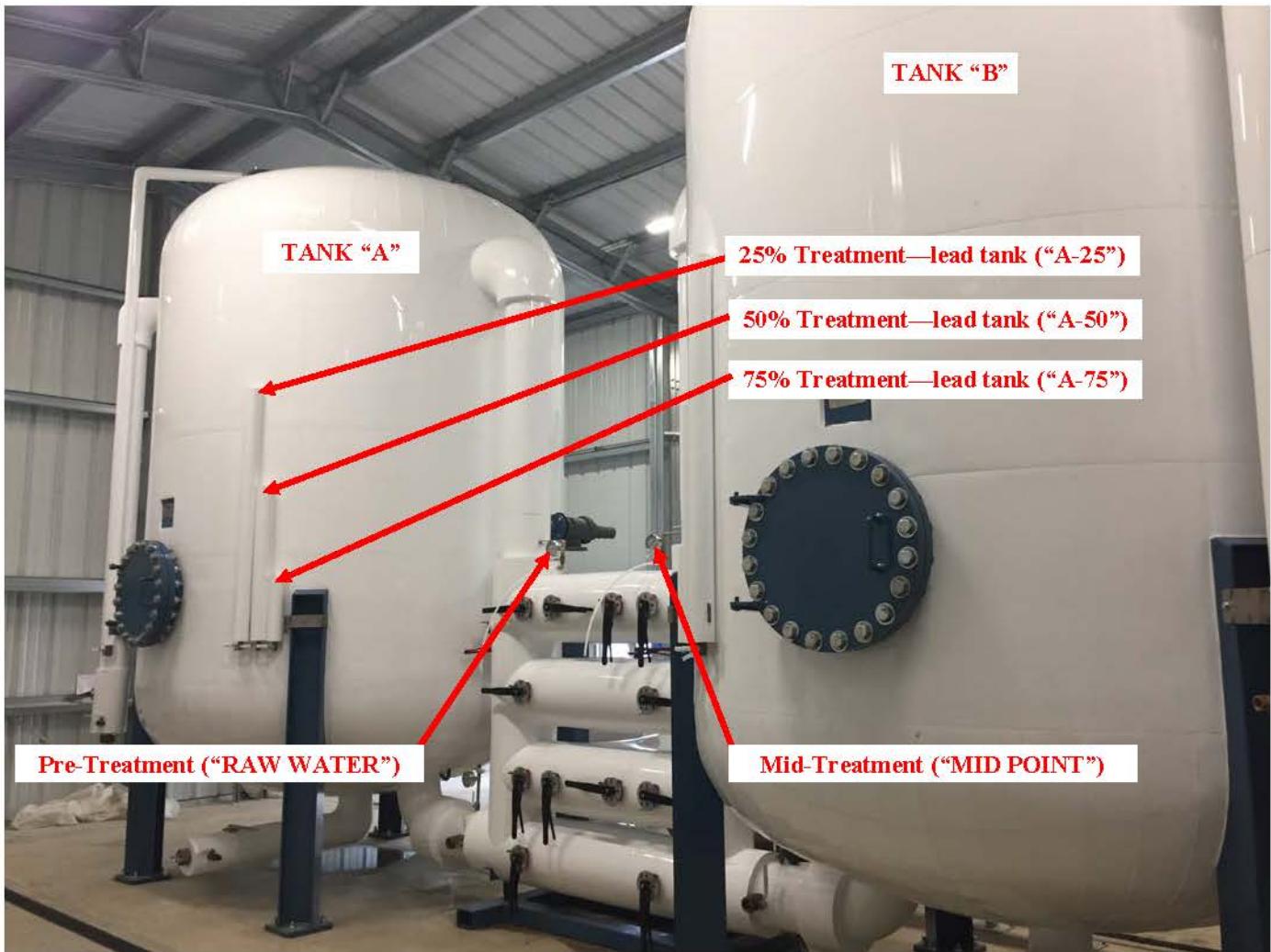


Figure 1—Kroll Well GAC Treatment System
Sampling Locations

Town of New Windsor
Kroll Well GAC Operation and Maintenance PFOA and PFOS Sampling Results ** (Parts Per Trillion (PPT))

Date	Analyte	Result ¹ Raw Water	Result A25	Result ² A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	Proposed NYS MCLs
September 2019 (Based on 21 PFAS Analysis Data only)	PFOA	8.4	ND	6.1	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
	PFOS	14	ND	7.8	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
October 2019 (Based on 21 PFAS Analysis Data only)	PFOA	7.9	6.5	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
	PFOS	13	8.7	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
November 2019 (Based on 21 PFAS Analysis Data only)	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
	PFOS	10	8.4	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
December 2019 (Based on 21 PFAS Analysis Data only)	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
January 2020 (Based on 21 PFAS Analysis Data only)	PFOA	11	10	2.2	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵

Notes:

** 21 PFAS List Analysis.

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. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is currently 70 ppt.
5. 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.



Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-52269-1

Client Project/Site: Stewart ANG Base #336089 Kroll Well

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

Attn: Mr. Dave Chiusano

Authorized for release by:
1/23/2020 4:18:13 PM

Judy Stone, Senior Project Manager
(484)685-0868
judy.stone@testamericainc.com

LINKS

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Expert

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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.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
1/23/2020 4:18:13 PM

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Definitions/Glossary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 200-52269-1

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis	1
%R	Percent Recovery	2
CFL	Contains Free Liquid	3
CNF	Contains No Free Liquid	4
DER	Duplicate Error Ratio (normalized absolute difference)	5
Dil Fac	Dilution Factor	6
DL	Detection Limit (DoD/DOE)	7
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	8
DLC	Decision Level Concentration (Radiochemistry)	9
EDL	Estimated Detection Limit (Dioxin)	10
LOD	Limit of Detection (DoD/DOE)	11
LOQ	Limit of Quantitation (DoD/DOE)	12
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	14
MDL	Method Detection Limit	15
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 ANG Base #336089 Kroll Well

Job ID: 200-52269-1

Job ID: 200-52269-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

Job Narrative 200-52269-1

Receipt

The samples were received on 1/18/2020 9:54 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2° C.

LCMS

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

Detection Summary

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: EFFLUENT

Lab Sample ID: 200-52269-1

No Detections.

Client Sample ID: MID POINT

Lab Sample ID: 200-52269-2

No Detections.

Client Sample ID: RAW WATER

Lab Sample ID: 200-52269-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.3		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.5		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.4		1.9		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.4		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	11		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.6		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.9		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	10		1.9		ng/L	1		537 (modified)	Total/NA

Client Sample ID: DUPLICATE

Lab Sample ID: 200-52269-4

No Detections.

Client Sample ID: A-25

Lab Sample ID: 200-52269-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.7		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.3		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	10		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.0		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	8.7		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: A-50

Lab Sample ID: 200-52269-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.7		1.7		ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.4		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.2		1.7		ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: A-75

Lab Sample ID: 200-52269-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.7		1.7		ng/L	1		537 (modified)	Total/NA

Client Sample ID: B-25

Lab Sample ID: 200-52269-8

No Detections.

Client Sample ID: B-50

Lab Sample ID: 200-52269-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 200-52269-1

Client Sample ID: B-75

Lab Sample ID: 200-52269-10

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: EFFLUENT

Date Collected: 01/17/20 11:10

Lab Sample ID: 200-52269-1

Matrix: Water

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
Perfluorooctanesulfonamide (FOSA)	ND		8.7		ng/L		01/20/20 11:22	01/20/20 20:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 20:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 20:37	1
6:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 20:37	1
8:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 20:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	101		25 - 150				01/20/20 11:22	01/20/20 20:37	1
13C4 PFBA	119		25 - 150				01/20/20 11:22	01/20/20 20:37	1
13C5-PFPeA DNU	124		25 - 150				01/20/20 11:22	01/20/20 20:37	1
13C2 PFHxA	114		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C4 PFHpA	113		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C4 PFOA	104		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C5 PFNA	110		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C2 PFDA	100		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C2 PFUnA	106		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C2 PFDoA	92		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C2 PFTeDA	100		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C3 PFBS	113		50 - 150				01/20/20 11:22	01/20/20 20:37	1
18O2 PFHxS	111		50 - 150				01/20/20 11:22	01/20/20 20:37	1
13C4 PFOS	109		50 - 150				01/20/20 11:22	01/20/20 20:37	1
d3-NMeFOSAA	81		50 - 150				01/20/20 11:22	01/20/20 20:37	1
d5-NEtFOSAA	97		50 - 150				01/20/20 11:22	01/20/20 20:37	1
M2-6:2 FTS	91		25 - 150				01/20/20 11:22	01/20/20 20:37	1
M2-8:2 FTS	100		25 - 150				01/20/20 11:22	01/20/20 20:37	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: MID POINT

Lab Sample ID: 200-52269-2

Matrix: Water

Date Collected: 01/17/20 11:33

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:01	1
Perfluorooctanesulfonamide (FOSA)	ND		8.5		ng/L		01/20/20 11:22	01/20/20 21:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 21:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 21:01	1
6:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 21:01	1
8:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 21:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	91		25 - 150				01/20/20 11:22	01/20/20 21:01	1
13C4 PFBA	117		25 - 150				01/20/20 11:22	01/20/20 21:01	1
13C5-PFPeA DNU	121		25 - 150				01/20/20 11:22	01/20/20 21:01	1
13C2 PFHxA	120		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C4 PFHpA	113		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C4 PFOA	106		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C5 PFNA	101		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C2 PFDA	98		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C2 PFUnA	91		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C2 PFDoA	85		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C2 PFTeDA	87		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C3 PFBS	116		50 - 150				01/20/20 11:22	01/20/20 21:01	1
18O2 PFHxS	113		50 - 150				01/20/20 11:22	01/20/20 21:01	1
13C4 PFOS	107		50 - 150				01/20/20 11:22	01/20/20 21:01	1
d3-NMeFOSAA	78		50 - 150				01/20/20 11:22	01/20/20 21:01	1
d5-NEtFOSAA	80		50 - 150				01/20/20 11:22	01/20/20 21:01	1
M2-6:2 FTS	97		25 - 150				01/20/20 11:22	01/20/20 21:01	1
M2-8:2 FTS	101		25 - 150				01/20/20 11:22	01/20/20 21:01	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: RAW WATER

Date Collected: 01/17/20 11:53

Lab Sample ID: 200-52269-3

Matrix: Water

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.3		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluoropentanoic acid (PFPeA)	4.5		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorohexanoic acid (PFHxA)	4.4		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluoroheptanoic acid (PFHpA)	3.4		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorooctanoic acid (PFOA)	11		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorobutanesulfonic acid (PFBS)	6.6		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluorooctanesulfonic acid (PFOS)	10		1.9		ng/L		01/20/20 11:22	01/20/20 21:09	1
Perfluoroctanesulfonamide (FOSA)	ND		9.3		ng/L		01/20/20 11:22	01/20/20 21:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19		ng/L		01/20/20 11:22	01/20/20 21:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19		ng/L		01/20/20 11:22	01/20/20 21:09	1
6:2 FTS	ND		19		ng/L		01/20/20 11:22	01/20/20 21:09	1
8:2 FTS	ND		19		ng/L		01/20/20 11:22	01/20/20 21:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	99		25 - 150				01/20/20 11:22	01/20/20 21:09	1
13C4 PFBA	122		25 - 150				01/20/20 11:22	01/20/20 21:09	1
13C5-PFPeA DNU	124		25 - 150				01/20/20 11:22	01/20/20 21:09	1
13C2 PFHxA	115		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C4 PFHpA	119		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C4 PFOA	107		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C5 PFNA	110		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C2 PFDA	102		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C2 PFUnA	108		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C2 PFDoA	97		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C2 PFTeDA	98		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C3 PFBS	114		50 - 150				01/20/20 11:22	01/20/20 21:09	1
18O2 PFHxS	124		50 - 150				01/20/20 11:22	01/20/20 21:09	1
13C4 PFOS	112		50 - 150				01/20/20 11:22	01/20/20 21:09	1
d3-NMeFOSAA	80		50 - 150				01/20/20 11:22	01/20/20 21:09	1
d5-NEtFOSAA	84		50 - 150				01/20/20 11:22	01/20/20 21:09	1
M2-6:2 FTS	98		25 - 150				01/20/20 11:22	01/20/20 21:09	1
M2-8:2 FTS	101		25 - 150				01/20/20 11:22	01/20/20 21:09	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: DUPLICATE

Date Collected: 01/17/20 00:00

Lab Sample ID: 200-52269-4

Matrix: Water

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
Perfluorooctanesulfonamide (FOSA)	ND		8.8		ng/L		01/20/20 11:22	01/20/20 21:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		01/20/20 11:22	01/20/20 21:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		01/20/20 11:22	01/20/20 21:18	1
6:2 FTS	ND		18		ng/L		01/20/20 11:22	01/20/20 21:18	1
8:2 FTS	ND		18		ng/L		01/20/20 11:22	01/20/20 21:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	85		25 - 150				01/20/20 11:22	01/20/20 21:18	1
13C4 PFBA	118		25 - 150				01/20/20 11:22	01/20/20 21:18	1
13C5-PFPeA DNU	126		25 - 150				01/20/20 11:22	01/20/20 21:18	1
13C2 PFHxA	121		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C4 PFHpA	123		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C4 PFOA	106		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C5 PFNA	104		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C2 PFDA	92		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C2 PFUnA	89		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C2 PFDoA	85		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C2 PFTeDA	84		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C3 PFBS	114		50 - 150				01/20/20 11:22	01/20/20 21:18	1
18O2 PFHxS	111		50 - 150				01/20/20 11:22	01/20/20 21:18	1
13C4 PFOS	107		50 - 150				01/20/20 11:22	01/20/20 21:18	1
d3-NMeFOSAA	77		50 - 150				01/20/20 11:22	01/20/20 21:18	1
d5-NEtFOSAA	86		50 - 150				01/20/20 11:22	01/20/20 21:18	1
M2-6:2 FTS	93		25 - 150				01/20/20 11:22	01/20/20 21:18	1
M2-8:2 FTS	91		25 - 150				01/20/20 11:22	01/20/20 21:18	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: A-25

Date Collected: 01/17/20 11:48

Lab Sample ID: 200-52269-5

Matrix: Water

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.4		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluoropentanoic acid (PFPeA)	4.7		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorohexanoic acid (PFHxA)	4.3		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluoroheptanoic acid (PFHpA)	3.2		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorooctanoic acid (PFOA)	10		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorobutanesulfonic acid (PFBS)	6.0		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorooctanesulfonic acid (PFOS)	8.7		1.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
Perfluorooctanesulfonamide (FOSA)	ND		8.7		ng/L		01/20/20 11:22	01/20/20 21:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 21:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 21:26	1
6:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 21:26	1
8:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 21:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	82		25 - 150				01/20/20 11:22	01/20/20 21:26	1
13C4 PFBA	112		25 - 150				01/20/20 11:22	01/20/20 21:26	1
13C5-PFPeA DNU	108		25 - 150				01/20/20 11:22	01/20/20 21:26	1
13C2 PFHxA	108		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C4 PFHpA	110		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C4 PFOA	102		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C5 PFNA	90		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C2 PFDA	87		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C2 PFUnA	89		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C2 PFDoA	81		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C2 PFTeDA	88		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C3 PFBS	104		50 - 150				01/20/20 11:22	01/20/20 21:26	1
18O2 PFHxS	105		50 - 150				01/20/20 11:22	01/20/20 21:26	1
13C4 PFOS	105		50 - 150				01/20/20 11:22	01/20/20 21:26	1
d3-NMeFOSAA	77		50 - 150				01/20/20 11:22	01/20/20 21:26	1
d5-NEtFOSAA	85		50 - 150				01/20/20 11:22	01/20/20 21:26	1
M2-6:2 FTS	89		25 - 150				01/20/20 11:22	01/20/20 21:26	1
M2-8:2 FTS	82		25 - 150				01/20/20 11:22	01/20/20 21:26	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: A-50

Date Collected: 01/17/20 11:43

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-6

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.7		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluoropentanoic acid (PFPeA)	3.4		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorohexanoic acid (PFHxA)	2.4		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorooctanoic acid (PFOA)	2.2		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorobutanesulfonic acid (PFBS)	2.6		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:34		1
Perfluorooctanesulfonamide (FOSA)	ND		8.5		ng/L	01/20/20 11:22	01/20/20 21:34		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L	01/20/20 11:22	01/20/20 21:34		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L	01/20/20 11:22	01/20/20 21:34		1
6:2 FTS	ND		17		ng/L	01/20/20 11:22	01/20/20 21:34		1
8:2 FTS	ND		17		ng/L	01/20/20 11:22	01/20/20 21:34		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	92		25 - 150				01/20/20 11:22	01/20/20 21:34	1
13C4 PFBA	111		25 - 150				01/20/20 11:22	01/20/20 21:34	1
13C5-PFPeA DNU	122		25 - 150				01/20/20 11:22	01/20/20 21:34	1
13C2 PFHxA	112		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C4 PFHpA	114		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C4 PFOA	99		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C5 PFNA	95		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C2 PFDA	92		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C2 PFUnA	96		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C2 PFDoA	87		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C2 PFTeDA	91		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C3 PFBS	110		50 - 150				01/20/20 11:22	01/20/20 21:34	1
18O2 PFHxS	104		50 - 150				01/20/20 11:22	01/20/20 21:34	1
13C4 PFOS	101		50 - 150				01/20/20 11:22	01/20/20 21:34	1
d3-NMeFOSAA	84		50 - 150				01/20/20 11:22	01/20/20 21:34	1
d5-NEtFOSAA	86		50 - 150				01/20/20 11:22	01/20/20 21:34	1
M2-6:2 FTS	93		25 - 150				01/20/20 11:22	01/20/20 21:34	1
M2-8:2 FTS	93		25 - 150				01/20/20 11:22	01/20/20 21:34	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: A-75

Lab Sample ID: 200-52269-7

Date Collected: 01/17/20 11:38

Matrix: Water

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.7		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
Perfluorooctanesulfonamide (FOSA)	ND		8.7		ng/L	01/20/20 11:22	01/20/20 21:42		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L	01/20/20 11:22	01/20/20 21:42		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L	01/20/20 11:22	01/20/20 21:42		1
6:2 FTS	ND		17		ng/L	01/20/20 11:22	01/20/20 21:42		1
8:2 FTS	ND		17		ng/L	01/20/20 11:22	01/20/20 21:42		1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	87		25 - 150	01/20/20 11:22	01/20/20 21:42	1
13C4 PFBA	118		25 - 150	01/20/20 11:22	01/20/20 21:42	1
13C5-PFPeA DNU	131		25 - 150	01/20/20 11:22	01/20/20 21:42	1
13C2 PFHxA	122		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C4 PFHpA	121		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C4 PFOA	106		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C5 PFNA	106		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C2 PFDA	92		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C2 PFUnA	92		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C2 PFDoA	81		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C2 PFTeDA	88		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C3 PFBS	114		50 - 150	01/20/20 11:22	01/20/20 21:42	1
18O2 PFHxS	111		50 - 150	01/20/20 11:22	01/20/20 21:42	1
13C4 PFOS	107		50 - 150	01/20/20 11:22	01/20/20 21:42	1
d3-NMeFOSAA	83		50 - 150	01/20/20 11:22	01/20/20 21:42	1
d5-NEtFOSAA	82		50 - 150	01/20/20 11:22	01/20/20 21:42	1
M2-6:2 FTS	105		25 - 150	01/20/20 11:22	01/20/20 21:42	1
M2-8:2 FTS	100		25 - 150	01/20/20 11:22	01/20/20 21:42	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: B-25

Lab Sample ID: 200-52269-8

Date Collected: 01/17/20 11:25

Matrix: Water

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L		01/20/20 11:22	01/20/20 21:50	1
Perfluorooctanesulfonamide (FOSA)	ND		9.0		ng/L		01/20/20 11:22	01/20/20 21:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L		01/20/20 11:22	01/20/20 21:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L		01/20/20 11:22	01/20/20 21:50	1
6:2 FTS	ND		18		ng/L		01/20/20 11:22	01/20/20 21:50	1
8:2 FTS	ND		18		ng/L		01/20/20 11:22	01/20/20 21:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	96		25 - 150		01/20/20 11:22	01/20/20 21:50
13C4 PFBA	113		25 - 150		01/20/20 11:22	01/20/20 21:50
13C5-PFPeA DNU	121		25 - 150		01/20/20 11:22	01/20/20 21:50
13C2 PFHxA	117		50 - 150		01/20/20 11:22	01/20/20 21:50
13C4 PFHpA	123		50 - 150		01/20/20 11:22	01/20/20 21:50
13C4 PFOA	100		50 - 150		01/20/20 11:22	01/20/20 21:50
13C5 PFNA	98		50 - 150		01/20/20 11:22	01/20/20 21:50
13C2 PFDA	100		50 - 150		01/20/20 11:22	01/20/20 21:50
13C2 PFUnA	88		50 - 150		01/20/20 11:22	01/20/20 21:50
13C2 PFDoA	88		50 - 150		01/20/20 11:22	01/20/20 21:50
13C2 PFTeDA	88		50 - 150		01/20/20 11:22	01/20/20 21:50
13C3 PFBS	116		50 - 150		01/20/20 11:22	01/20/20 21:50
18O2 PFHxS	109		50 - 150		01/20/20 11:22	01/20/20 21:50
13C4 PFOS	109		50 - 150		01/20/20 11:22	01/20/20 21:50
d3-NMeFOSAA	81		50 - 150		01/20/20 11:22	01/20/20 21:50
d5-NEtFOSAA	84		50 - 150		01/20/20 11:22	01/20/20 21:50
M2-6:2 FTS	96		25 - 150		01/20/20 11:22	01/20/20 21:50
M2-8:2 FTS	102		25 - 150		01/20/20 11:22	01/20/20 21:50

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: B-50

Lab Sample ID: 200-52269-9

Matrix: Water

Date Collected: 01/17/20 11:22

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluoropentanoic acid (PFPeA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorohexanoic acid (PFHxA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluoroheptanoic acid (PFHpA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorooctanoic acid (PFOA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorononanoic acid (PFNA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorodecanoic acid (PFDA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluoroundecanoic acid (PFUnA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorododecanoic acid (PFDoA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorotridecanoic acid (PFTriA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8		ng/L	01/20/20 11:22	01/20/20 21:59		1
Perfluorooctanesulfonamide (FOSA)	ND		9.1		ng/L	01/20/20 11:22	01/20/20 21:59		1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18		ng/L	01/20/20 11:22	01/20/20 21:59		1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		18		ng/L	01/20/20 11:22	01/20/20 21:59		1
6:2 FTS	ND		18		ng/L	01/20/20 11:22	01/20/20 21:59		1
8:2 FTS	ND		18		ng/L	01/20/20 11:22	01/20/20 21:59		1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	80		25 - 150				01/20/20 11:22	01/20/20 21:59	1
13C4 PFBA	105		25 - 150				01/20/20 11:22	01/20/20 21:59	1
13C5-PFPeA DNU	115		25 - 150				01/20/20 11:22	01/20/20 21:59	1
13C2 PFHxA	109		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C4 PFHpA	110		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C4 PFOA	100		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C5 PFNA	95		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C2 PFDA	84		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C2 PFUnA	73		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C2 PFDoA	80		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C2 PFTeDA	80		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C3 PFBS	106		50 - 150				01/20/20 11:22	01/20/20 21:59	1
18O2 PFHxS	106		50 - 150				01/20/20 11:22	01/20/20 21:59	1
13C4 PFOS	96		50 - 150				01/20/20 11:22	01/20/20 21:59	1
d3-NMeFOSAA	69		50 - 150				01/20/20 11:22	01/20/20 21:59	1
d5-NEtFOSAA	74		50 - 150				01/20/20 11:22	01/20/20 21:59	1
M2-6:2 FTS	90		25 - 150				01/20/20 11:22	01/20/20 21:59	1
M2-8:2 FTS	89		25 - 150				01/20/20 11:22	01/20/20 21:59	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: B-75

Lab Sample ID: 200-52269-10

Date Collected: 01/17/20 11:17

Matrix: Water

Date Received: 01/18/20 09:54

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluoropentanoic acid (PFPeA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorohexanoic acid (PFHxA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorooctanoic acid (PFOA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorononanoic acid (PFNA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorodecanoic acid (PFDA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorododecanoic acid (PFDoA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorohexamersulfonic acid (PFHxS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7		ng/L		01/20/20 11:22	01/20/20 22:07	1
Perfluorooctanesulfonamide (FOSA)	ND		8.4		ng/L		01/20/20 11:22	01/20/20 22:07	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 22:07	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17		ng/L		01/20/20 11:22	01/20/20 22:07	1
6:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 22:07	1
8:2 FTS	ND		17		ng/L		01/20/20 11:22	01/20/20 22:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	84		25 - 150				01/20/20 11:22	01/20/20 22:07	1
13C4 PFBA	110		25 - 150				01/20/20 11:22	01/20/20 22:07	1
13C5-PFPeA DNU	122		25 - 150				01/20/20 11:22	01/20/20 22:07	1
13C2 PFHxA	111		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C4 PFHpA	123		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C4 PFOA	104		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C5 PFNA	98		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C2 PFDA	83		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C2 PFUnA	86		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C2 PFDoA	85		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C2 PFTeDA	90		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C3 PFBS	109		50 - 150				01/20/20 11:22	01/20/20 22:07	1
18O2 PFHxS	111		50 - 150				01/20/20 11:22	01/20/20 22:07	1
13C4 PFOS	107		50 - 150				01/20/20 11:22	01/20/20 22:07	1
d3-NMeFOSAA	76		50 - 150				01/20/20 11:22	01/20/20 22:07	1
d5-NEtFOSAA	77		50 - 150				01/20/20 11:22	01/20/20 22:07	1
M2-6:2 FTS	92		25 - 150				01/20/20 11:22	01/20/20 22:07	1
M2-8:2 FTS	94		25 - 150				01/20/20 11:22	01/20/20 22:07	1

Eurofins TestAmerica, Burlington

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (50-150)	PFHpA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
200-52269-1	EFFLUENT	101	119	124	114	113	104	110	100
200-52269-1 MS	EFFLUENT	84	110	121	112	114	98	100	86
200-52269-1 MSD	EFFLUENT	84	119	128	120	120	107	103	97
200-52269-2	MID POINT	91	117	121	120	113	106	101	98
200-52269-3	RAW WATER	99	122	124	115	119	107	110	102
200-52269-4	DUPLICATE	85	118	126	121	123	106	104	92
200-52269-5	A-25	82	112	108	108	110	102	90	87
200-52269-6	A-50	92	111	122	112	114	99	95	92
200-52269-7	A-75	87	118	131	122	121	106	106	92
200-52269-8	B-25	96	113	121	117	123	100	98	100
200-52269-9	B-50	80	105	115	109	110	100	95	84
200-52269-10	B-75	84	110	122	111	123	104	98	83
LCS 200-151611/2-A	Lab Control Sample	70	127	128	124	120	109	107	106
MB 200-151611/1-A	Method Blank	88	124	132	118	124	115	106	103
Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFTDA (50-150)	3C3-PFB ^b (50-150)	PFHxS (50-150)	PFOS (50-150)	-NMeFOS/ (50-150)	-NEtFOS/ (50-150)
200-52269-1	EFFLUENT	106	92	100	113	111	109	81	97
200-52269-1 MS	EFFLUENT	80	81	91	114	107	101	72	73
200-52269-1 MSD	EFFLUENT	86	76	86	118	116	108	72	72
200-52269-2	MID POINT	91	85	87	116	113	107	78	80
200-52269-3	RAW WATER	108	97	98	114	124	112	80	84
200-52269-4	DUPLICATE	89	85	84	114	111	107	77	86
200-52269-5	A-25	89	81	88	104	105	105	77	85
200-52269-6	A-50	96	87	91	110	104	101	84	86
200-52269-7	A-75	92	81	88	114	111	107	83	82
200-52269-8	B-25	88	88	88	116	109	109	81	84
200-52269-9	B-50	73	80	80	106	106	96	69	74
200-52269-10	B-75	86	85	90	109	111	107	76	77
LCS 200-151611/2-A	Lab Control Sample	91	79	74	120	119	112	82	82
MB 200-151611/1-A	Method Blank	102	85	99	121	115	111	92	84
Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
200-52269-1	EFFLUENT	91	100						
200-52269-1 MS	EFFLUENT	86	85						
200-52269-1 MSD	EFFLUENT	99	89						
200-52269-2	MID POINT	97	101						
200-52269-3	RAW WATER	98	101						
200-52269-4	DUPLICATE	93	91						
200-52269-5	A-25	89	82						
200-52269-6	A-50	93	93						
200-52269-7	A-75	105	100						
200-52269-8	B-25	96	102						
200-52269-9	B-50	90	89						
200-52269-10	B-75	92	94						
LCS 200-151611/2-A	Lab Control Sample	102	96						
MB 200-151611/1-A	Method Blank	92	103						

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Isotope Dilution Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 200-52269-1

Surrogate Legend

PFOSA = 13C8 FOSA

PFBA = 13C4 PFBA

PFPeA = 13C5-PFPeA DNU

PFHxA = 13C2 PFHxA

PFHpA = 13C4 PFHpA

PFOA = 13C4 PFOA

PFNA = 13C5 PFNA

PFDA = 13C2 PFDA

PFUnA = 13C2 PFUnA

PFDoA = 13C2 PFDoA

PFTDA = 13C2 PFTeDA

13C3-PFBS = 13C3 PFBS

PFHxS = 18O2 PFHxS

PFOS = 13C4 PFOS

d3-NMeFOSAA = d3-NMeFOSAA

d5-NEtFOSAA = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

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QC Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-151611/1-A

Matrix: Water

Analysis Batch: 151657

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 151611

Analyte	MB	MB	Dil Fac						
	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed
Perfluorobutanoic acid (PFBA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluoropentanoic acid (PFPeA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorohexanoic acid (PFHxA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluoroheptanoic acid (PFHpA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluoroctanoic acid (PFOA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorononanoic acid (PFNA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorodecanoic acid (PFDA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluoroundecanoic acid (PFUnA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorododecanoic acid (PFDaO)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorotridecanoic acid (PFTriA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorotetradecanoic acid (PFTeA)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorobutanesulfonic acid (PFBS)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorohexanesulfonic acid (PFHxS)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorodecanesulfonic acid (PFDS)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorooctanesulfonic acid (PFOS)	ND		1	2.0		ng/L	01/20/20 11:22	01/21/20 16:49	
Perfluorooctanesulfonamide (FOSA)	ND		1	10		ng/L	01/20/20 11:22	01/21/20 16:49	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1	20		ng/L	01/20/20 11:22	01/21/20 16:49	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1	20		ng/L	01/20/20 11:22	01/21/20 16:49	
6:2 FTS	ND		1	20		ng/L	01/20/20 11:22	01/21/20 16:49	
8:2 FTS	ND		1	20		ng/L	01/20/20 11:22	01/21/20 16:49	

Isotope Dilution	MB	MB	Dil Fac				
	%Recovery	Qualifier		Limits	Prepared	Analyzed	
13C8 FOSA	88		1	25 - 150	01/20/20 11:22	01/21/20 16:49	
13C4 PFBA	124		1	25 - 150	01/20/20 11:22	01/21/20 16:49	
13C5-PFPeA DNU	132		1	25 - 150	01/20/20 11:22	01/21/20 16:49	
13C2 PFHxA	118		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C4 PFHpA	124		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C4 PFOA	115		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C5 PFNA	106		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C2 PFDA	103		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C2 PFUnA	102		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C2 PFDaO	85		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C2 PFTeDA	99		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C3 PFBS	121		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
18O2 PFHxS	115		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
13C4 PFOS	111		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
d3-NMeFOSAA	92		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
d5-NEtFOSAA	84		1	50 - 150	01/20/20 11:22	01/21/20 16:49	
M2-6:2 FTS	92		1	25 - 150	01/20/20 11:22	01/21/20 16:49	
M2-8:2 FTS	103		1	25 - 150	01/20/20 11:22	01/21/20 16:49	

Eurofins TestAmerica, Burlington

QC Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

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

Lab Sample ID: LCS 200-151611/2-A

Matrix: Water

Analysis Batch: 151622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Perfluorobutanoic acid (PFBA)	40.0	35.1		ng/L		88	50 - 150	
Perfluoropentanoic acid (PFPeA)	40.0	32.3		ng/L		81	50 - 150	
Perfluorohexanoic acid (PFHxA)	40.0	33.2		ng/L		83	70 - 130	
Perfluoroheptanoic acid (PFHpA)	40.0	34.6		ng/L		86	70 - 130	
Perfluorooctanoic acid (PFOA)	40.0	38.0		ng/L		95	70 - 130	
Perfluorononanoic acid (PFNA)	40.0	40.3		ng/L		101	70 - 130	
Perfluorodecanoic acid (PFDA)	40.0	36.4		ng/L		91	70 - 130	
Perfluoroundecanoic acid (PFUnA)	40.0	37.7		ng/L		94	70 - 130	
Perfluorododecanoic acid (PFDoA)	40.0	39.0		ng/L		98	70 - 130	
Perfluorotridecanoic acid (PFTriA)	40.0	32.0		ng/L		80	70 - 130	
Perfluorotetradecanoic acid (PFTeA)	40.0	44.8		ng/L		112	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	35.4	32.5		ng/L		92	70 - 130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	31.5		ng/L		87	70 - 130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	33.7		ng/L		88	50 - 150	
Perfluorodecanesulfonic acid (PFDS)	38.6	30.8		ng/L		80	50 - 150	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.2		ng/L		100	70 - 130	
Perfluorooctanesulfonamide (FOSA)	40.0	36.2		ng/L		90	50 - 150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.1		ng/L		105	70 - 130	
6:2 FTS		37.9		ng/L		118	50 - 150	
8:2 FTS		38.3		ng/L		95	50 - 150	

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C8 FOSA	70		25 - 150
13C4 PFBA	127		25 - 150
13C5-PFPeA DNU	128		25 - 150
13C2 PFHxA	124		50 - 150
13C4 PFHpA	120		50 - 150
13C4 PFOA	109		50 - 150
13C5 PFNA	107		50 - 150
13C2 PFDA	106		50 - 150
13C2 PFUnA	91		50 - 150
13C2 PFDoA	79		50 - 150
13C2 PFTeDA	74		50 - 150
13C3 PFBS	120		50 - 150
18O2 PFHxS	119		50 - 150
13C4 PFOS	112		50 - 150
d3-NMeFOSAA	82		50 - 150
d5-NEtFOSAA	82		50 - 150

Eurofins TestAmerica, Burlington

QC Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

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

Lab Sample ID: LCS 200-151611/2-A

Matrix: Water

Analysis Batch: 151622

Isotope Dilution	LCS	LCS	%Recovery	Qualifier	Limits
M2-6:2 FTS		102			25 - 150
M2-8:2 FTS		96			25 - 150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 151611

Lab Sample ID: 200-52269-1 MS

Matrix: Water

Analysis Batch: 151622

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Perfluorobutanoic acid (PFBA)	ND		34.6	31.5		ng/L		91	40 - 160	
Perfluoropentanoic acid (PFPeA)	ND		34.6	28.0		ng/L		81	40 - 160	
Perfluorohexanoic acid (PFHxA)	ND		34.6	31.7		ng/L		92	40 - 160	
Perfluoroheptanoic acid (PFHpA)	ND		34.6	30.3		ng/L		88	40 - 160	
Perfluorooctanoic acid (PFOA)	ND		34.6	34.3		ng/L		99	40 - 160	
Perfluorononanoic acid (PFNA)	ND		34.6	33.0		ng/L		96	40 - 160	
Perfluorodecanoic acid (PFDA)	ND		34.6	33.2		ng/L		96	40 - 160	
Perfluoroundecanoic acid (PFUnA)	ND		34.6	34.3		ng/L		99	40 - 160	
Perfluorododecanoic acid (PFDoA)	ND		34.6	34.7		ng/L		100	40 - 160	
Perfluorotridecanoic acid (PFTriA)	ND		34.6	31.1		ng/L		90	40 - 160	
Perfluorotetradecanoic acid (PFTeA)	ND		34.6	36.6		ng/L		106	40 - 160	
Perfluorobutanesulfonic acid (PFBS)	ND		30.5	28.5		ng/L		92	40 - 160	
Perfluorohexanesulfonic acid (PFHxS)	ND		31.4	32.1		ng/L		102	40 - 160	
Perfluoroheptanesulfonic Acid (PFHpS)	ND		32.9	32.4		ng/L		98	40 - 160	
Perfluorodecanesulfonic acid (PFDS)	ND		33.3	28.5		ng/L		85	40 - 160	
Perfluoroctanesulfonic acid (PFOS)	ND		32.1	29.6		ng/L		92	40 - 160	
Perfluorooctanesulfonamide (FOSA)	ND		34.6	30.5		ng/L		88	40 - 160	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	ND		34.6	37.2		ng/L		108	40 - 160	
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	ND		34.6	30.4		ng/L		88	40 - 160	
6:2 FTS	ND		32.8	34.6		ng/L		106	40 - 160	
8:2 FTS	ND		33.1	30.4		ng/L		92	40 - 160	
Isotope Dilution	MS	MS	%Recovery	Qualifier	Limits					
13C8 FOSA		84			25 - 150					
13C4 PFBA		110			25 - 150					
13C5-PFPeA DNU		121			25 - 150					
13C2 PFHxA		112			50 - 150					
13C4 PFHpA		114			50 - 150					
13C4 PFOA		98			50 - 150					
13C5 PFNA		100			50 - 150					
13C2 PFDA		86			50 - 150					
13C2 PFUnA		80			50 - 150					

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QC Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

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

Lab Sample ID: 200-52269-1 MS

Matrix: Water

Analysis Batch: 151622

Client Sample ID: EFFLUENT

Prep Type: Total/NA

Prep Batch: 151611

Isotope Dilution	%Recovery	MS	MS	Limits
		Qualifier	Limits	
13C2 PFDoA	81		50 - 150	
13C2 PFTeDA	91		50 - 150	
13C3 PFBS	114		50 - 150	
18O2 PFHxS	107		50 - 150	
13C4 PFOS	101		50 - 150	
d3-NMeFOSAA	72		50 - 150	
d5-NEtFOSAA	73		50 - 150	
M2-6:2 FTS	86		25 - 150	
M2-8:2 FTS	85		25 - 150	

Lab Sample ID: 200-52269-1 MSD

Matrix: Water

Analysis Batch: 151622

Client Sample ID: EFFLUENT

Prep Type: Total/NA

Prep Batch: 151611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec.	%Rec. Limits	RPD	RPD Limit
				Result	Qualifier						
Perfluorobutanoic acid (PFBA)	ND		35.4	31.6		ng/L		89	40 - 160	0	30
Perfluoropentanoic acid (PPeA)	ND		35.4	29.5		ng/L		83	40 - 160	5	30
Perfluorohexanoic acid (PFHxA)	ND		35.4	32.5		ng/L		92	40 - 160	3	20
Perfluoroheptanoic acid (PFHpA)	ND		35.4	32.9		ng/L		93	40 - 160	8	20
Perfluorooctanoic acid (PFOA)	ND		35.4	34.0		ng/L		96	40 - 160	1	20
Perfluorononanoic acid (PFNA)	ND		35.4	36.6		ng/L		103	40 - 160	10	20
Perfluorodecanoic acid (PFDA)	ND		35.4	30.2		ng/L		85	40 - 160	10	20
Perfluoroundecanoic acid (PFUnA)	ND		35.4	32.8		ng/L		93	40 - 160	4	20
Perfluorododecanoic acid (PFDoA)	ND		35.4	34.4		ng/L		97	40 - 160	1	20
Perfluorotridecanoic acid (PFTriA)	ND		35.4	29.2		ng/L		83	40 - 160	6	20
Perfluorotetradecanoic acid (PFTeA)	ND		35.4	38.9		ng/L		110	40 - 160	6	20
Perfluorobutanesulfonic acid (PFBS)	ND		31.3	29.2		ng/L		92	40 - 160	2	20
Perfluorohexanesulfonic acid (PFHxS)	ND		32.2	30.3		ng/L		94	40 - 160	6	20
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.7	33.5		ng/L		100	40 - 160	4	30
Perfluorodecanesulfonic acid (PFDS)	ND		34.1	25.0		ng/L		73	40 - 160	13	30
Perfluorooctanesulfonic acid (PFOS)	ND		32.8	30.8		ng/L		94	40 - 160	4	20
Perfluorooctanesulfonamide (FOSA)	ND		35.4	30.9		ng/L		87	40 - 160	1	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.4	36.2		ng/L		102	40 - 160	3	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.4	32.7		ng/L		92	40 - 160	7	20
6:2 FTS	ND		33.6	29.4		ng/L		87	40 - 160	16	30
8:2 FTS	ND		33.9	27.7		ng/L		82	40 - 160	9	30

Isotope Dilution	%Recovery	MSD	MSD	Limits
		Qualifier	Limits	
13C8 FOSA	84		25 - 150	
13C4 PFBA	119		25 - 150	

Eurofins TestAmerica, Burlington

QC Sample Results

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

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

Lab Sample ID: 200-52269-1 MSD

Matrix: Water

Analysis Batch: 151622

Client Sample ID: EFFLUENT

Prep Type: Total/NA

Prep Batch: 151611

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C5-PFPeA DNU	128		25 - 150
13C2 PFHxA	120		50 - 150
13C4 PFHpA	120		50 - 150
13C4 PFOA	107		50 - 150
13C5 PFNA	103		50 - 150
13C2 PFDA	97		50 - 150
13C2 PFUnA	86		50 - 150
13C2 PFDoA	76		50 - 150
13C2 PFTeDA	86		50 - 150
13C3 PFBS	118		50 - 150
18O2 PFHxS	116		50 - 150
13C4 PFOS	108		50 - 150
d3-NMeFOSAA	72		50 - 150
d5-NEtFOSAA	72		50 - 150
M2-6:2 FTS	99		25 - 150
M2-8:2 FTS	89		25 - 150

QC Association Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 200-52269-1

LCMS

Prep Batch: 151611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-52269-1	EFFLUENT	Total/NA	Water	3535	1
200-52269-2	MID POINT	Total/NA	Water	3535	2
200-52269-3	RAW WATER	Total/NA	Water	3535	3
200-52269-4	DUPLICATE	Total/NA	Water	3535	4
200-52269-5	A-25	Total/NA	Water	3535	5
200-52269-6	A-50	Total/NA	Water	3535	6
200-52269-7	A-75	Total/NA	Water	3535	7
200-52269-8	B-25	Total/NA	Water	3535	8
200-52269-9	B-50	Total/NA	Water	3535	9
200-52269-10	B-75	Total/NA	Water	3535	10
MB 200-151611/1-A	Method Blank	Total/NA	Water	3535	11
LCS 200-151611/2-A	Lab Control Sample	Total/NA	Water	3535	12
200-52269-1 MS	EFFLUENT	Total/NA	Water	3535	13
200-52269-1 MSD	EFFLUENT	Total/NA	Water	3535	14

Analysis Batch: 151622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-52269-1	EFFLUENT	Total/NA	Water	537 (modified)	151611
200-52269-2	MID POINT	Total/NA	Water	537 (modified)	151611
200-52269-3	RAW WATER	Total/NA	Water	537 (modified)	151611
200-52269-4	DUPLICATE	Total/NA	Water	537 (modified)	151611
200-52269-5	A-25	Total/NA	Water	537 (modified)	151611
200-52269-6	A-50	Total/NA	Water	537 (modified)	151611
200-52269-7	A-75	Total/NA	Water	537 (modified)	151611
200-52269-8	B-25	Total/NA	Water	537 (modified)	151611
200-52269-9	B-50	Total/NA	Water	537 (modified)	151611
200-52269-10	B-75	Total/NA	Water	537 (modified)	151611
LCS 200-151611/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	151611
200-52269-1 MS	EFFLUENT	Total/NA	Water	537 (modified)	151611
200-52269-1 MSD	EFFLUENT	Total/NA	Water	537 (modified)	151611

Analysis Batch: 151657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 200-151611/1-A	Method Blank	Total/NA	Water	537 (modified)	151611

Lab Chronicle

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 200-52269-1

Client Sample ID: EFFLUENT

Date Collected: 01/17/20 11:10

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 20:37	BWC	TAL BUR

Client Sample ID: MID POINT

Date Collected: 01/17/20 11:33

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:01	BWC	TAL BUR

Client Sample ID: RAW WATER

Date Collected: 01/17/20 11:53

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:09	BWC	TAL BUR

Client Sample ID: DUPLICATE

Date Collected: 01/17/20 00:00

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:18	BWC	TAL BUR

Client Sample ID: A-25

Date Collected: 01/17/20 11:48

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:26	BWC	TAL BUR

Client Sample ID: A-50

Date Collected: 01/17/20 11:43

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:34	BWC	TAL BUR

Eurofins TestAmerica, Burlington

Lab Chronicle

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 200-52269-1

Client Sample ID: A-75

Date Collected: 01/17/20 11:38

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:42	BWC	TAL BUR

Client Sample ID: B-25

Date Collected: 01/17/20 11:25

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:50	BWC	TAL BUR

Client Sample ID: B-50

Date Collected: 01/17/20 11:22

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 21:59	BWC	TAL BUR

Client Sample ID: B-75

Date Collected: 01/17/20 11:17

Date Received: 01/18/20 09:54

Lab Sample ID: 200-52269-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			151611	01/20/20 11:22	ND	TAL BUR
Total/NA	Analysis	537 (modified)		1	151622	01/20/20 22:07	BWC	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	03-31-20

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 (PPeA)
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	04-01-20 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 200-52269-1

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

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 BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Sample Summary

Client: New York State D.E.C.

Job ID: 200-52269-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-52269-1	EFFLUENT	Water	01/17/20 11:10	01/18/20 09:54	
200-52269-2	MID POINT	Water	01/17/20 11:33	01/18/20 09:54	
200-52269-3	RAW WATER	Water	01/17/20 11:53	01/18/20 09:54	
200-52269-4	DUPLICATE	Water	01/17/20 00:00	01/18/20 09:54	
200-52269-5	A-25	Water	01/17/20 11:48	01/18/20 09:54	
200-52269-6	A-50	Water	01/17/20 11:43	01/18/20 09:54	
200-52269-7	A-75	Water	01/17/20 11:38	01/18/20 09:54	
200-52269-8	B-25	Water	01/17/20 11:25	01/18/20 09:54	
200-52269-9	B-50	Water	01/17/20 11:22	01/18/20 09:54	
200-52269-10	B-75	Water	01/17/20 11:17	01/18/20 09:54	

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Eurofins TestAmerica, Burlington

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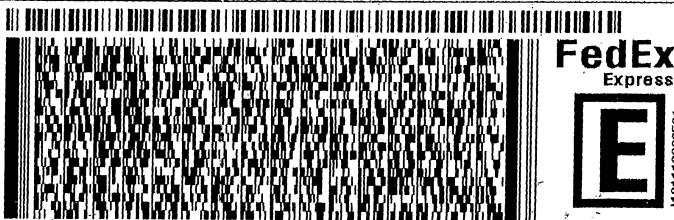
ORIGIN ID:SCHA (518) 438-8140
TIM KNOLLMAYER
TESTAMERICA LAB INC
25 KRAFT AVE
ALBANY, NY 12205
UNITED STATES US

SHIP DATE: 17JAN20
ACTWT: 47.35 LB
CAD: 0439821/CAFE3211
DIMS: 26x15x14 IN

BILL THIRD PARTY

TO **SAMPLE RECEIVING**
TESTAMERICA – BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403
(802) 660 - 1990
REF: SREWART ANG



SATURDAY 12:00P
PRIORITY OVERNIGHT

XO BTVA

05403
VT-US BTV



Part # 156148-434 RNT EXP 09/19.

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 200-52269-1

Login Number: 52269

List Source: Eurofins TestAmerica, Burlington

List Number: 2

Creator: Hall, Samuel C

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True	1138143	7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	True	1.2°C	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		15
Is the Field Sampler's name present on COC?	True	PS	
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	N/A		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		