NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation 625 Broadway, 12th Floor, Albany, New York 12233-7011 P: (518) 402-9706 | F: (518) 402-9020 www.dec.ny.gov

May 12, 2021

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 George Meyers:

The New York State Department of Environmental Conservation (DEC) is providing you with a copy of analytical results derived from the May 4, 2021 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 NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

Specifically, the samples were analyzed for a total of 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. 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.



Supervisor Meyers Page 2

The 9 locations sampled (and their associated identifiers) are depicted in Figure 1.

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

If you have any technical questions regarding the analytical results or on the operation and performance of the GAC treatment system, please feel free to contact me or Jim Hayward, EA Science and Technology (DEC's Project Engineer) at (315) 431-4610 (ext.1857) or ihayward@eaest.com. For weekday or off hour / weekend emergency repair issues, please call DEC's contractor, Brian Neumann of Precision Environmental Services at (518) 441-1520 (cell). 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

Javid Chus

Enclosures

ec: w/enclosures

- D. Zagon, Town of New Windsor
- J. Marina, Town of New Windsor
- J. Egitto, Town of New Windsor
- S. Bedetti, Town of New Windsor
- A. Regenbaum, Town of New Windsor
- K. Rea, Town of New Windsor
- J. Conrad, PVE LLC
- C. Brown, PVE LLC
- M. Weeks, MHE
- Dr. Kim, NYSDOH
- S. Gladding, NYSDOH
- S. Gagnon, OCDOH
- M. Andersen, OCDOH
- J. Hayward, EA Engineering
- B. Neumann, PES
- M. Cruden, NYSDEC
- D. Bendell, Region 3 RHWRE

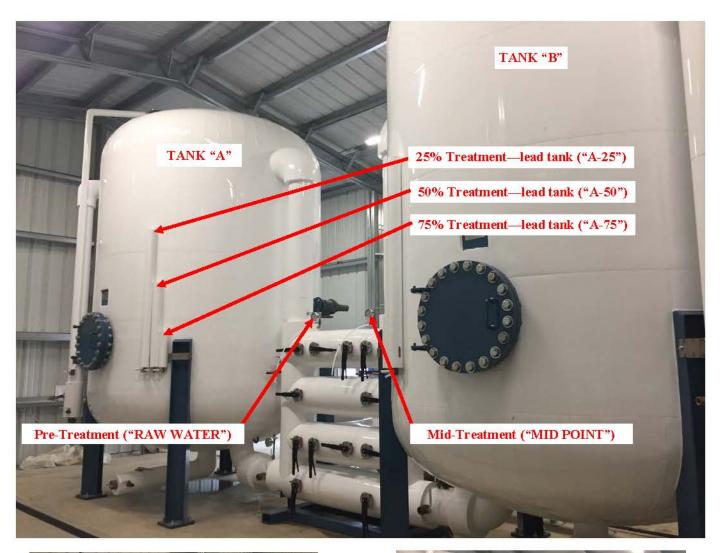






Figure 1—Kroll Well GAC Treatment System Sampling Locations

Town of New Windsor

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

(Last updated: May 2021)

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	PFOA	8.4	ND	6.1	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis Data only)	PFOS	14	ND	7.8	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
October 2019	PFOA	7.9	6.5	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis Data only)	PFOS	13	8.7	ND	ND	ND	ND	ND	ND	ND	704	10 ⁵
November 2019	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis Data only)	PFOS	10	8.4	ND	ND	ND	ND	ND	ND	ND	704	10 ⁵
December 2019	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
Data only)							,					
January 2020	PFOA	11	10	2.2	ND	ND	ND	ND	ND	ND	704	10 ⁵
(Based on 21 PFAS Analysis	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
Data only)										_		
February 2020	PFOA	11	9.9	3.3	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis Data only)	PFOS	9.7	8.4	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.

Town of New Windsor

Kroll Well GAC Operation and Maintenance PFOA and PFOS Sampling Results ** (Parts Per Trillion (PPT)) Continued

(Last updated: February 2021)

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	NYS MCLs
March 2020	PFOA	9.3	9.2	4.2	ND	ND	ND	ND	ND	ND	704	10 ⁵
(Based on 21 PFAS Analysis	PFOS	9.6	11	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
Data only)												
April 2020	PFOA	8.7	8.4	4.3	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis	PFOS	8.9	7.7	1.9	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
Data only)												
May 2020 (Based	PFOA	ND	7.9	4.8	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
on 21 PFAS Analysis Data	PFOS	11.0	7.7	2.0	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
only)												
August 2020	PFOA	9.4	9.2	6.8	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis	PFOS	11.0	11.0	4.5	ND	ND	ND	ND	ND	ND	704	10 ⁵
Data only)				(GAC CHA	NGE COMP	LETED BY N	NYSDEC IN 1	NOVEMBE	R 2020		
February 2021	PFOA	7.5	ND	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
(Based on 21 PFAS Analysis	PFOS	6.7	ND	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
Data only)												
May 2021 (Based	PFOA	9.1	5.7	ND	ND	ND	ND	ND	ND	ND	704	10 ⁵
on 21 PFAS Analysis Data)	PFOS	7.4	2.6	ND	ND	ND	ND	ND	ND	ND	70 ⁴	10 ⁵
Allalysis Data)												

Notes:

- ** 21 PFAS List Analysis.
- . 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 70 ppt.
- 5. Effective August 2020 the 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)
- <u>RL = reporting limit</u> or RDL = <u>reportable detection limit</u> 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.

- <u>Labeled Standard or Surrogate</u> is the lab's specific name for an individual control sample.
- <u>%R</u> is the percent of the control sample that was detected by the equipment. A 100% reading represents perfect equipment alignment.
- <u>LCL-UCL</u> 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 I 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.
- <u>RL/PQL</u> is the lowest level at which the specific laboratory test can reliably quantify the concentration. Below that number, the result is considered unreliable.
- <u>DIL</u> is the number of times the sample was diluted (necessary because the test has a certain range that it is accurate for).
- <u>Units</u>: mg/l is milligrams per liter or parts per million; ug/l is micrograms per liter or parts per billion.
- <u>DW MCL</u> 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.

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



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-73240-1

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

Judy Stone

Authorized for release by: 5/7/2021 1:51:14 PM

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

Judy.Stone@Eurofinset.com

LINKS

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Have a Question?



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www.eurofinsus.com/Env

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

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

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

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Judy Stone

Senior Project Manager 5/7/2021 1:51:14 PM

Laboratory Job ID: 320-73240-1

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.

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Definitions/Glossary

Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Glossary

QC

RL RPD

TEF

TEQ **TNTC**

RER

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

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

Case Narrative

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 320-73240-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-73240-1

Receipt

The samples were received on 5/5/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8° C.

LCMS

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

Organic Prep

Method PFAS Prep: The following sample was light yellow prior to extraction: A-50 (320-73240-5).

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

Job ID: 320-73240-1

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Detection Summary

Client: New York State D.E.C. Job ID: 320-73240-1 Project/Site: Stewart ANG Base #336089 Kroll Well

No Detections.

Client Sample ID: Effluent

Client Sample ID: Mid Point Lab Sample ID: 320-73240-2

No Detections.

Client Sample ID: Raw Water Lab Sample ID: 320-73240-3

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	6.1	2.0	ng/L	1	WS-LC-0025 Att1	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.5	2.0	ng/L	1	WS-LC-0025 Att1	Total/NA
Perfluorooctanoic acid (PFOA)	9.1	2.0	ng/L	1	WS-LC-0025 Att1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.4	2.0	ng/L	1	WS-LC-0025 Att1	Total/NA

Client Sample ID: A-25 Lab Sample ID: 320-73240-4

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.3	2.0	ng/L	1	WS-LC-0025 Att1	Total/NA
Perfluorooctanoic acid (PFOA)	5.7	2.0	ng/L	1	WS-LC-0025 Att1	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.6	2.0	ng/L	1	WS-LC-0025 Att1	Total/NA

Lab Sample ID: 320-73240-5 Client Sample ID: A-50

No Detections.

Client Sample ID: A-75 Lab Sample ID: 320-73240-6

No Detections.

Client Sample ID: B-25 Lab Sample ID: 320-73240-7

No Detections.

Client Sample ID: B-50 Lab Sample ID: 320-73240-8

No Detections.

Client Sample ID: B-75 Lab Sample ID: 320-73240-9

No Detections.

Client Sample ID: Duplicate Lab Sample ID: 320-73240-10

No Detections.

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 320-73240-1

Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: Effluent Lab Sample ID: 320-73240-1

Date Collected: 05/04/21 11:50 Matrix: Water Date Received: 05/05/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 20:20	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 20:20	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 20:20	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 20:20	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 20:20	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 20:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	111		25 - 150				05/06/21 07:29	05/06/21 20:20	1
13C4 PFHpA	116		25 - 150				05/06/21 07:29	05/06/21 20:20	1
13C4 PFOA	119		70 - 130				05/06/21 07:29	05/06/21 20:20	1
13C4 PFOS	113		70 - 130				05/06/21 07:29	05/06/21 20:20	1
13C5 PFNA	113		25 - 150				05/06/21 07:29	05/06/21 20:20	1
13C3 PFBS	82		25 - 150				05/06/21 07:29	05/06/21 20:20	1

Client Sample ID: Mid Point

Date Collected: 05/04/21 12:15

Lab Sample ID: 320-73240-2

Matrix: Water

Date Received: 05/05/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:16	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:16	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:16	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:16	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:16	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1802 PFHxS	103		25 - 150				05/06/21 07:29	05/06/21 21:16	1
13C4 PFHpA	113		25 - 150				05/06/21 07:29	05/06/21 21:16	1
13C4 PFOA	113		70 - 130				05/06/21 07:29	05/06/21 21:16	1
13C4 PFOS	102		70 - 130				05/06/21 07:29	05/06/21 21:16	1

Client Sample ID: Raw Water

Date Collected: 05/04/21 12:35

Lab Sample ID: 320-73240-3

Matrix: Water

25 - 150

25 - 150

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Date Received: 05/05/21 10:15

13C5 PFNA

13C3 PFBS

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	6.1	2.0		ng/L		05/06/21 07:29	05/06/21 21:34	1
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L		05/06/21 07:29	05/06/21 21:34	1
Perfluoroheptanoic acid (PFHpA)	2.5	2.0		ng/L		05/06/21 07:29	05/06/21 21:34	1
Perfluorooctanoic acid (PFOA)	9.1	2.0		ng/L		05/06/21 07:29	05/06/21 21:34	1
Perfluorooctanesulfonic acid (PFOS)	7.4	2.0		ng/L		05/06/21 07:29	05/06/21 21:34	1
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L		05/06/21 07:29	05/06/21 21:34	1
Isotope Dilution	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac
1802 PFHxS	101	25 - 150				05/06/21 07:29	05/06/21 21:34	1

Eurofins TestAmerica, Sacramento

05/06/21 07:29 05/06/21 21:16

05/06/21 07:29 05/06/21 21:16

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Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: Raw Water

Date Received: 05/05/21 10:15

Date Collected: 05/04/21 12:35

Lab Sample ID: 320-73240-3

Matrix: Water

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

		•	•			
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFHpA	106		25 - 150	05/06/21 07:29	05/06/21 21:34	1
13C4 PFOA	111		70 - 130	05/06/21 07:29	05/06/21 21:34	1
13C4 PFOS	101		70 - 130	05/06/21 07:29	05/06/21 21:34	1
13C5 PFNA	107		25 - 150	05/06/21 07:29	05/06/21 21:34	1
13C3 PFBS	78		25 - 150	05/06/21 07:29	05/06/21 21:34	1

Client Sample ID: A-25 Lab Sample ID: 320-73240-4

Date Collected: 05/04/21 12:30 **Matrix: Water**

Date Received: 05/05/21 10:15

Method: WS-LC-0025 Att1 - Fluorinated Alkvl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	4.3		2.0		ng/L		05/06/21 07:29	05/06/21 21:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:53	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:53	1
Perfluorooctanoic acid (PFOA)	5.7		2.0		ng/L		05/06/21 07:29	05/06/21 21:53	1
Perfluorooctanesulfonic acid (PFOS)	2.6		2.0		ng/L		05/06/21 07:29	05/06/21 21:53	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 21:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1002 DEU/C			25 150				05/06/21 07:20	05/06/21 21:52	

Isotope Dilution	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1802 PFHxS	99	25 - 150	05/06/21 07:29	05/06/21 21:53	1
13C4 PFHpA	105	25 - 150	05/06/21 07:29	05/06/21 21:53	1
13C4 PFOA	103	70 - 130	05/06/21 07:29	05/06/21 21:53	1
13C4 PFOS	104	70 - 130	05/06/21 07:29	05/06/21 21:53	1
13C5 PFNA	113	25 - 150	05/06/21 07:29	05/06/21 21:53	1
13C3 PFBS	80	25 - 150	05/06/21 07:29	05/06/21 21:53	1

Client Sample ID: A-50 Lab Sample ID: 320-73240-5 **Matrix: Water**

Date Collected: 05/04/21 12:25 Date Received: 05/05/21 10:15

Method: WS-I C-0025 Att1 - Fluorinated Alkyl Substances

Wethod: WS-LC-0025 Att1 - FI	uorinated A	likyi Subsi	ances			ernod: WS-LC-0025 Att1 - Fluorinated Alkyl Substances										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac							
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:11	1							
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:11	1							
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:11	1							
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:11	1							
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:11	1							
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:11	1							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac							
1802 PFHxS	102		25 - 150				05/06/21 07:29	05/06/21 22:11	1							

	,			, .,	
1802 PFHxS	102	25 - 150	05/06/21 07:29	05/06/21 22:11	1
13C4 PFHpA	110	25 - 150	05/06/21 07:29	05/06/21 22:11	1
13C4 PFOA	113	70 - 130	05/06/21 07:29	05/06/21 22:11	1
13C4 PFOS	104	70 - 130	05/06/21 07:29	05/06/21 22:11	1
13C5 PFNA	114	25 - 150	05/06/21 07:29	05/06/21 22:11	1
13C3 PFBS	82	25 - 150	05/06/21 07:29	05/06/21 22:11	1

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Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: A-75

Lab Sample ID: 320-73240-6

Date Collected: 05/04/21 12:20 **Matrix: Water** Date Received: 05/05/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:30	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:30	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:30	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:30	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 22:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1802 PFHxS	106		25 - 150				05/06/21 07:29	05/06/21 22:30	1
13C4 PFHpA	113		25 - 150				05/06/21 07:29	05/06/21 22:30	1
13C4 PFOA	113		70 - 130				05/06/21 07:29	05/06/21 22:30	1
13C4 PFOS	108		70 - 130				05/06/21 07:29	05/06/21 22:30	1
13C5 PFNA	116		25 - 150				05/06/21 07:29	05/06/21 22:30	1

Client Sample ID: B-25 Lab Sample ID: 320-73240-7

Date Collected: 05/04/21 12:10 **Matrix: Water**

Date Received: 05/05/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:06	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:06	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:06	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1802 PFHxS	102		25 - 150				05/06/21 07:29	05/06/21 23:06	1
13C4 PFHpA	109		25 - 150				05/06/21 07:29	05/06/21 23:06	1
13C4 PFOA	110		70 - 130				05/06/21 07:29	05/06/21 23:06	1
13C4 PFOS	107		70 - 130				05/06/21 07:29	05/06/21 23:06	1
13C5 PFNA	111		25 - 150				05/06/21 07:29	05/06/21 23:06	1

Client Sample ID: B-50 Lab Sample ID: 320-73240-8 Date Collected: 05/04/21 12:05 **Matrix: Water**

Date Received: 05/05/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:25	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:25	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:25	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 23:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1802 PFHxS	98		25 - 150				05/06/21 07:29	05/06/21 23:25	1
13C4 PFHpA	109		25 - 150				05/06/21 07:29	05/06/21 23:25	1
13C4 PFOA	109		70 - 130				05/06/21 07:29	05/06/21 23:25	1

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Client Sample ID: B-50 Lab Sample ID: 320-73240-8

Date Collected: 05/04/21 12:05

Matrix: Water

Date Received: 05/05/21 10:15

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	102		70 - 130	05/06/21 07:29	05/06/21 23:25	1
13C5 PFNA	108		25 - 150	05/06/21 07:29	05/06/21 23:25	1
13C3 PFBS	78		25 - 150	05/06/21 07:29	05/06/21 23:25	1

Client Sample ID: B-75

Date Collected: 05/04/21 12:00

Lab Sample ID: 320-73240-9

Matrix: Water

Date Received: 05/05/21 10:15

Method: WS-LC-0025 Att1 - Fluorinated Alkyl Substances
Analyte Result Qualifier Qualifier

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L		05/06/21 07:29	05/06/21 23:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L		05/06/21 07:29	05/06/21 23:43	1
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L		05/06/21 07:29	05/06/21 23:43	1
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L		05/06/21 07:29	05/06/21 23:43	1
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L		05/06/21 07:29	05/06/21 23:43	1
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L		05/06/21 07:29	05/06/21 23:43	1
lootone Dilution	9/ Bassyamy Ovalifier	l imita			Dunnanal	A	Dil 500

1 Chiadronandic ada (1 1 147)	ND		2.0	rig/L	03/00/21 07.23	03/00/21 23.43	
Isotope Dilution	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
18O2 PFHxS	104		25 - 150		05/06/21 07:29	05/06/21 23:43	1
13C4 PFHpA	112		25 - 150		05/06/21 07:29	05/06/21 23:43	1
13C4 PFOA	110		70 - 130		05/06/21 07:29	05/06/21 23:43	1
13C4 PFOS	103		70 - 130		05/06/21 07:29	05/06/21 23:43	1
13C5 PFNA	111		25 - 150		05/06/21 07:29	05/06/21 23:43	1
13C3 PFBS	79		25 - 150		05/06/21 07:29	05/06/21 23:43	1

Client Sample ID: Duplicate

Date Collected: 05/04/21 00:00

Lab Sample ID: 320-73240-10

Matrix: Water

Date Received: 05/05/21 10:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/07/21 00:02	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/07/21 00:02	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/07/21 00:02	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/07/21 00:02	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/07/21 00:02	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/07/21 00:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1802 PFHxS	100		25 - 150				05/06/21 07:29	05/07/21 00:02	1
13C4 PFHpA	109		25 - 150				05/06/21 07:29	05/07/21 00:02	1
13C4 PFOA	110		70 - 130				05/06/21 07:29	05/07/21 00:02	1
13C4 PFOS	98		70 - 130				05/06/21 07:29	05/07/21 00:02	1
13C5 PFNA	107		25 - 150				05/06/21 07:29	05/07/21 00:02	1
	81		25 - 150				05/06/21 07:29	05/07/21 00:02	

5/7/2021

Isotope Dilution Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

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

Matrix: Water Prep Type: Total/NA

			Perce	Percent Isotope Dilution Recovery (
		PFHxS	C4PFHA	PFOA	PFOS	PFNA	C3PFBS			
ab Sample ID	Client Sample ID	(25-150)	(25-150)	(70-130)	(70-130)	(25-150)	(25-150)			
0-73240-1	Effluent		116	119	113	113	82			
-73240-1 MS	Effluent	102	108	111	106	113	83			
73240-1 MSD	Effluent	103	112	112	104	111	79			
73240-2	Mid Point	103	113	113	102	116	81			
73240-3	Raw Water	101	106	111	101	107	78			
-73240-4	A-25	99	105	103	104	113	80			
73240-5	A-50	102	110	113	104	114	82			
73240-6	A-75	106	113	113	108	116	85			
' 3240-7	B-25	102	109	110	107	111	82			
73240-8	B-50	98	109	109	102	108	78			
73240-9	B-75	104	112	110	103	111	79			
-73240-10	Duplicate	100	109	110	98	107	81			
320-486446/2-A	Lab Control Sample	103	104	108	106	114	88			
320-486446/1-A	Method Blank	103	114	113	105	115	86			

Surrogate Legend

PFHxS = 18O2 PFHxS

C4PFHA = 13C4 PFHpA

PFOA = 13C4 PFOA

PFOS = 13C4 PFOS

PFNA = 13C5 PFNA

C3PFBS = 13C3 PFBS

Job ID: 320-73240-1

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Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

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

MR MR

Lab Sample ID: MB 320-486446/1-A

Matrix: Water

Analysis Batch: 486636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 486446

	1410 14								
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 19:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 19:44	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 19:44	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 19:44	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 19:44	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		05/06/21 07:29	05/06/21 19:44	1
	MB N	ИB							

Isotope Dilution	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	103	25 - 150	05/06/21 07:29	05/06/21 19:44	1
13C4 PFHpA	114	25 - 150	05/06/21 07:29	05/06/21 19:44	1
13C4 PFOA	113	70 - 130	05/06/21 07:29	05/06/21 19:44	1
13C4 PFOS	105	70 - 130	05/06/21 07:29	05/06/21 19:44	1
13C5 PFNA	115	25 - 150	05/06/21 07:29	05/06/21 19:44	1
13C3 PFBS	86	25 - 150	05/06/21 07:29	05/06/21 19:44	1

Lab Sample ID: LCS 320-486446/2-A

Matrix: Water

Analysis Batch: 486636

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Prep Batch: 486446**

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec Perfluorobutanesulfonic acid 17.7 19.8 ng/L 112 72 - 151 (PFBS) Perfluorohexanesulfonic acid 18.2 20.7 ng/L 73 - 157 114 (PFHxS) Perfluoroheptanoic acid (PFHpA) 20.0 23.8 71 - 138 ng/L 119 Perfluorooctanoic acid (PFOA) 20.0 22.3 ng/L 111 70 - 130 Perfluorooctanesulfonic acid 18.6 20.4 ng/L 110 70 - 130 (PFOS) Perfluorononanoic acid (PFNA) 20.0 22.3 73 - 147 ng/L 111

	LCS	LCS	
Isotope Dilution	%Recovery	Qualifier	Limits
1802 PFHxS	103		25 - 150
13C4 PFHpA	104		25 - 150
13C4 PFOA	108		70 - 130
13C4 PFOS	106		70 - 130

30 13C5 PFNA 114 25 - 150 13C3 PFBS 25 - 150 88

Analysis Batch: 486636

Matrix: Water

Lab Sample ID: 320-73240-1 MS

Client Sample ID: Effluent Prep Type: Total/NA

Prep Batch: 486446

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Perfluorobutanesulfonic acid (PFBS)	ND		15.3	18.1		ng/L		118	72 - 151	
Perfluorohexanesulfonic acid (PFHxS)	ND		15.8	18.1		ng/L		115	73 - 157	
Perfluoroheptanoic acid (PFHpA)	ND		17.3	20.5		ng/L		118	71 - 138	
Perfluorooctanoic acid (PFOA)	ND		17.3	19.5		ng/L		112	70 - 130	

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QC Sample Results

Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

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

Lab Sample ID: 320-7324 Matrix: Water Analysis Batch: 486636	0-1 MS							Clie	nt Sample ID: Effluent Prep Type: Total/NA Prep Batch: 486446
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Perfluorooctanesulfonic acid (PFOS)	ND		16.1	15.7		ng/L		97	70 - 130
Perfluorononanoic acid (PFNA)	ND		17.3	17.1		ng/L		99	73 - 147
	MS	MS							
Isotope Dilution	%Recovery	Qualifier	Limits						
1802 PFHxS	102		25 - 150						
13C4 PFHpA	108		25 - 150						
13C4 PFOA	111		70 - 130						
13C4 PFOS	106		70 - 130						
13C5 PFNA	113		25 - 150						
13C3 PFBS	83		25 - 150						

Lab Sample ID: 320-73240-1 MSD

Matrix: Water

Analysis Batch: 486636									Prep Ba	tch: 48	36446
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Perfluorobutanesulfonic acid (PFBS)	ND		15.5	18.6		ng/L		120	72 - 151	3	30
Perfluorohexanesulfonic acid (PFHxS)	ND		16.0	18.2		ng/L		114	73 - 157	1	30
Perfluoroheptanoic acid (PFHpA)	ND		17.6	19.6		ng/L		111	71 - 138	5	30
Perfluorooctanoic acid (PFOA)	ND		17.6	19.8		ng/L		113	70 - 130	2	20
Perfluorooctanesulfonic acid (PFOS)	ND		16.3	16.6		ng/L		102	70 - 130	6	20
Perfluorononanoic acid (PFNA)	ND		17.6	18.4		ng/L		105	73 - 147	7	30

	MSD	MSD	
Isotope Dilution	%Recovery	Qualifier	Limits
18O2 PFHxS	103		25 - 150
13C4 PFHpA	112		25 - 150
13C4 PFOA	112		70 - 130
13C4 PFOS	104		70 - 130
13C5 PFNA	111		25 - 150
13C3 PFBS	79		25 - 150

Client Sample ID: Effluent

Prep Type: Total/NA

QC Association Summary

Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

LCMS

Prep Batch: 486446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-73240-1	Effluent	Total/NA	Water	PFAS Prep	
320-73240-2	Mid Point	Total/NA	Water	PFAS Prep	
320-73240-3	Raw Water	Total/NA	Water	PFAS Prep	
320-73240-4	A-25	Total/NA	Water	PFAS Prep	
320-73240-5	A-50	Total/NA	Water	PFAS Prep	
320-73240-6	A-75	Total/NA	Water	PFAS Prep	
320-73240-7	B-25	Total/NA	Water	PFAS Prep	
320-73240-8	B-50	Total/NA	Water	PFAS Prep	
320-73240-9	B-75	Total/NA	Water	PFAS Prep	
320-73240-10	Duplicate	Total/NA	Water	PFAS Prep	
MB 320-486446/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-486446/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
320-73240-1 MS	Effluent	Total/NA	Water	PFAS Prep	
320-73240-1 MSD	Effluent	Total/NA	Water	PFAS Prep	

Analysis Batch: 486636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-73240-1	Effluent	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-2	Mid Point	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-3	Raw Water	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-4	A-25	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-5	A-50	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-6	A-75	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-7	B-25	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-8	B-50	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-9	B-75	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-10	Duplicate	Total/NA	Water	WS-LC-0025 Att1	486446
MB 320-486446/1-A	Method Blank	Total/NA	Water	WS-LC-0025 Att1	486446
LCS 320-486446/2-A	Lab Control Sample	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-1 MS	Effluent	Total/NA	Water	WS-LC-0025 Att1	486446
320-73240-1 MSD	Effluent	Total/NA	Water	WS-LC-0025 Att1	486446

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Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: Effluent

Date Collected: 05/04/21 11:50 Date Received: 05/05/21 10:15 Lab Sample ID: 320-73240-1

Matrix: Water

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			486636	05/06/21 20:20	K1S	TAL SAC

Client Sample ID: Mid Point

Date Collected: 05/04/21 12:15

Lab Sample ID: 320-73240-2

Matrix: Water

Date Collected: 05/04/21 12:15 Date Received: 05/05/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			486636	05/06/21 21:16	K1S	TAL SAC

Client Sample ID: Raw Water Lab Sample ID: 320-73240-3

Date Collected: 05/04/21 12:35 Date Received: 05/05/21 10:15

Batch Batch Dil Initial Final Batch Prepared Method Number or Analyzed Analyst **Prep Type** Type Run **Factor Amount** Amount Lab Total/NA Prep PFAS Prep 1.00 mL 1.66 mL 486446 05/06/21 07:29 HJA TAL SAC Total/NA Analysis WS-LC-0025 Att1 486636 05/06/21 21:34 K1S TAL SAC 1

Client Sample ID: A-25

Date Collected: 05/04/21 12:30

Lab Sample ID: 320-73240-4

Matrix: Water

Date Received: 05/05/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			486636	05/06/21 21:53	K1S	TAL SAC

Client Sample ID: A-50

Date Collected: 05/04/21 12:25

Lab Sample ID: 320-73240-5

Matrix: Water

Date Received: 05/05/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			486636	05/06/21 22:11	K1S	TAL SAC

Client Sample ID: A-75

Date Collected: 05/04/21 12:20

Lab Sample ID: 320-73240-6

Matrix: Water

Date Received: 05/05/21 10:15

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-I C-0025 Att1		1			486636	05/06/21 22:30	K1S	TAL SAC

Eurofins TestAmerica, Sacramento

Lab Chronicle

Client: New York State D.E.C. Job ID: 320-73240-1

Project/Site: Stewart ANG Base #336089 Kroll Well

Client Sample ID: B-25 Lab Sample ID: 320-73240-7

Date Collected: 05/04/21 12:10 Matrix: Water Date Received: 05/05/21 10:15

Batch Dil Initial Batch Batch Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Amount Amount Analyst Total/NA PFAS Prep 1.00 mL 1.66 mL 486446 05/06/21 07:29 HJA TAL SAC Prep 486636 05/06/21 23:06 K1S Total/NA WS-LC-0025 Att1 TAL SAC Analysis 1

Client Sample ID: B-50

Lab Sample ID: 320-73240-8

Matrix: Water

Date Received: 05/05/21 10:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			486636	05/06/21 23:25	K1S	TAL SAC

Client Sample ID: B-75

Lab Sample ID: 320-73240-9

Matrix: Water

Date Collected: 05/04/21 12:00 Date Received: 05/05/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			486636	05/06/21 23:43	K1S	TAL SAC

Client Sample ID: Duplicate

Lab Sample ID: 320-73240-10

Date Collected: 05/04/21 00:00

Matrix: Water

Date Received: 05/05/21 10:15

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			1.00 mL	1.66 mL	486446	05/06/21 07:29	HJA	TAL SAC
Total/NA	Analysis	WS-LC-0025 Att1		1			486636	05/07/21 00:02	K1S	TAL SAC

Laboratory References:

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

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Accreditation/Certification Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Job ID: 320-73240-1

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	P	Program	Identification Number	Expiration Date	
New York		IELAP	11666	04-01-22	
the agency does not o		port, but the laboratory is r	not certified by the governing authority. Analyte	This list may include analytes for whic	
Anaiysis iyletnod					
Analysis Method WS-LC-0025 Att1	PFAS Prep	Water	Perfluorobutanesulfonic acid	(PFBS)	
	<u></u> '			,	
WS-LC-0025 Att1	PFAS Prep	Water	Perfluorobutanesulfonic acid	HpA)	

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Method Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

 Method
 Method Description
 Protocol
 Laboratory

 WS-LC-0025 Att1
 Fluorinated Alkyl Substances
 TAL-SAC
 TAL SAC

 PFAS Prep
 Preparation, Direct Inject PFAS
 TAL-SAC
 TAL SAC

Protocol References:

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

Laboratory References:

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

Job ID: 320-73240-1

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Sample Summary

Client: New York State D.E.C.

Project/Site: Stewart ANG Base #336089 Kroll Well

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-73240-1	Effluent	Water	05/04/21 11:50	05/05/21 10:15
320-73240-2	Mid Point	Water	05/04/21 12:15	05/05/21 10:15
320-73240-3	Raw Water	Water	05/04/21 12:35	05/05/21 10:15
320-73240-4	A-25	Water	05/04/21 12:30	05/05/21 10:15
320-73240-5	A-50	Water	05/04/21 12:25	05/05/21 10:15
20-73240-6	A-75	Water	05/04/21 12:20	05/05/21 10:15
20-73240-7	B-25	Water	05/04/21 12:10	05/05/21 10:15
20-73240-8	B-50	Water	05/04/21 12:05	05/05/21 10:15
320-73240-9	B-75	Water	05/04/21 12:00	05/05/21 10:15
320-73240-10	Dunlicate	Water	05/04/21 00:00	05/05/21 10:15

Job ID: 320-73240-1

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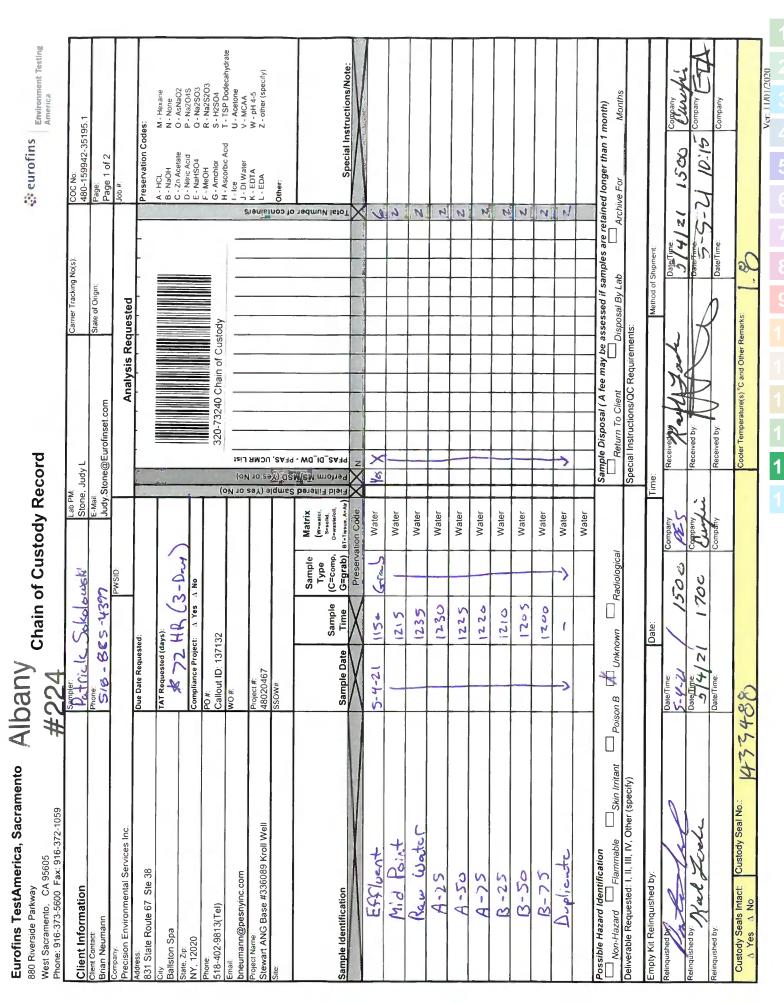
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Client: New York State D.E.C.

Job Number: 320-73240-1

Login Number: 73240 List Number: 1

r: 73240 List Source: Eurofins TestAmerica, Sacramento

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	1433488
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	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	