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

June 29, 2022

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

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

Dear Supervisor Meyers:

The New York State Department of Environmental Conservation (DEC) is providing you with a copy of analytical results derived from the **June 2,2022** sampling of the temporary granular activated carbon (GAC) water treatment system by DEC representatives that was installed at the Town of New Windsor (Town) Butterhill Wellfield located at 181 Forge Hill Road.

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

The samples were analyzed for polyfluoroalkyl substances (PFAS), including Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) utilizing EPA Method 533. Data received for the PFAS analysis has been attached.

During this event, sampling for PFAS was conducted at 29 locations.

- pre-treatment (combined raw untreated water), which has a “BH20220602PRE-GAC” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20220602-1N-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20220602-1N-50” identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 1), which has a “BH20220602-1N-75” identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20220602-2N-25” identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 2), which has a “BH20220602-2N-50” identifier in the Client Sample ID;

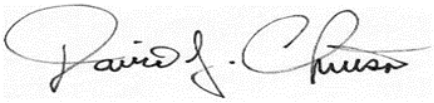
- 75 % treatment (within the lead GAC canister in Pair Train No. 2), which has a "BH20220602-2N-75" identifier in the Client Sample ID;
- 25 % treatment (within the lead GAC canister in Pair Train No. 3), which has a "BH20220602-3N-25" identifier in the Client Sample ID;
- 50 % treatment (within the lead GAC canister in Pair Train No. 3), which has a "BH20220602-3N-50" identifier in the Client Sample ID;
- 75 % treatment (within the lead GAC canister in Pair Train No. 3), which has a "BH20220602-3N-75" identifier in the Client Sample ID;
- Butterhill Well No.1 raw untreated water; which has a "BH20220602-1RAW" identifier in the Client Sample ID;
- Butterhill Well No.2 raw untreated water; which has a "BH20220602-2RAW" identifier in the Client Sample ID;
- Butterhill Well No.3 raw untreated water; which has a "BH20220602-3RAW" identifier in the Client Sample ID;
- Post-treatment (treated water after all GAC trains), which has a "BH20220602POST-GAC" identifier in the Client Sample ID.
- mid-treatment (after the first GAC canister in Pair Train No. 1 and prior to the second GAC canister in Pair Train No.1), which has a "BH20220602-1 MID" identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 1), which has a "BH20220602-1 POST" identifier in the Client Sample ID;
- mid-treatment (after the first GAC canister in Pair Train No. 2 and prior to the second GAC canister in Pair Train No.2), which has a "BH20220602-2 MID" identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 2), which has a "BH20220602-2 POST" identifier in the Client Sample ID;
- mid-treatment (after the first GAC canister in Pair Train No. 3 and prior to the second GAC canister in Pair Train No.3), which has a "BH20220602-3 MID" identifier in the Client Sample ID;
- post-treatment (after the GAC Pair Train 3), which has a "BH20220602-3 POST" identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 1), which has a "BH20220602-1S-25" identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 1), which has a "BH20220602-1S-50" identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 1), which has a "BH20220602-1S-75" identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 2), which has a "BH20220602-2S-25" identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 2), which has a "BH20220602-2S-50" identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 2), which has a "BH20220602-2S-75" identifier in the Client Sample ID;
- 25 % treatment (within the lag GAC canister in Pair Train No. 3), which has a "BH20220602-3S-25" identifier in the Client Sample ID;
- 50 % treatment (within the lag GAC canister in Pair Train No. 3), which has a "BH20220602-3S-50" identifier in the Client Sample ID;
- 75 % treatment (within the lag GAC canister in Pair Train No. 3), which has a "BH20220602-3S-75" identifier in the Client Sample ID;

The 29 locations sampled (and their associated identifiers) are depicted in Figure 1.

Please note that the next GAC OM sampling event will be scheduled around September 2022.

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

Sincerely,



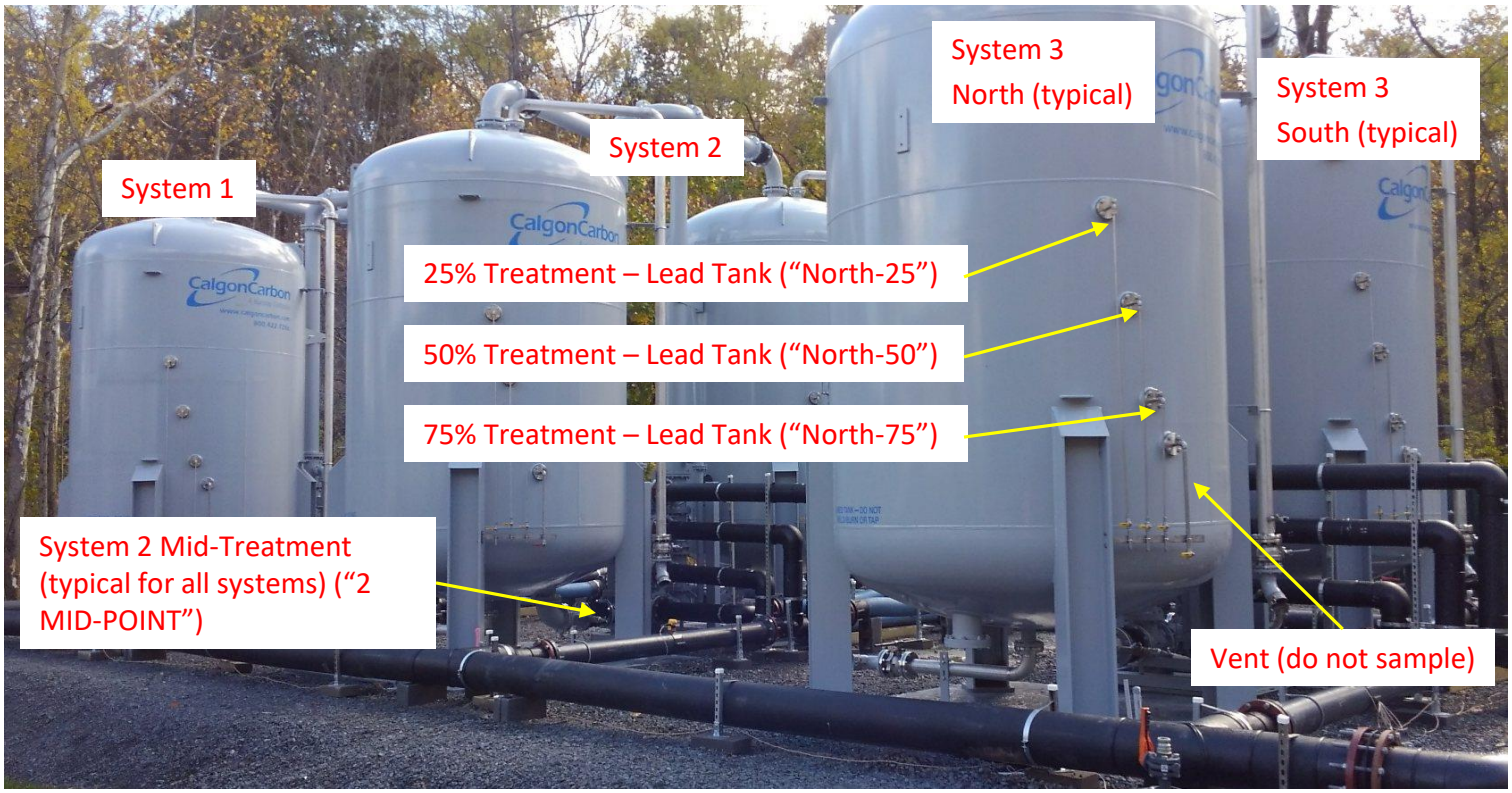
David J. Chiusano
Environmental Engineer/Project Manager
Remedial Section A, Remedial Bureau E
Division of Environmental Remediation

Enclosures

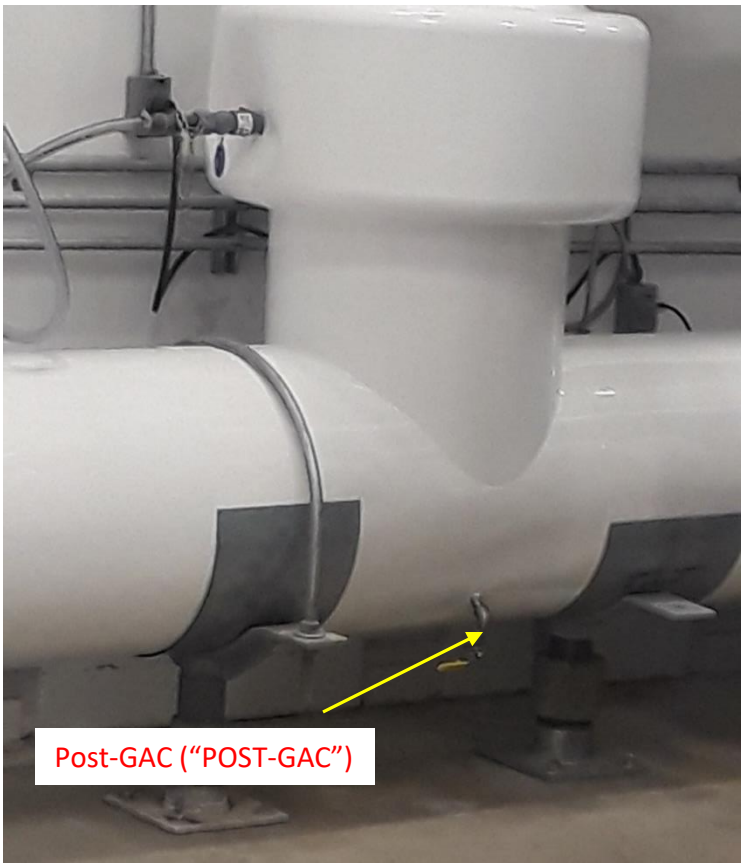
ec: w/enclosures
D. Zagon, Town of New Windsor
J. Egitto, Town of New Windsor
M. Weeks, MHE
Dr. Kim, NYSDOH
S. Gladding, NYSDOH
C. Bethoney, NYSDOH
S. Gagnon, OCDOH
M. Andersen, OCDOH
D. Bryant, Arcadis
F. Fina, Aztech
M. Cruden, NYSDEC-DER
B. Rung, NYSDEC-DER
D. Bendell, Region 3 RHWRE

Figure 1
Sampling Locations

Butterhill Plant Temporary GAC Treatment System



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



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

Town of New Windsor

Butterhill Wellfield Temporary GAC Operation and Maintenance PFOA and PFOS Sampling Results * (Parts Per Trillion (PPT))[1]

Date	Analyte	Well 1 Raw Water	Well 2 Raw Water	Well 3 Raw Water	Pre GAC Raw Water (Combined)	GAC Pair 1 Lead 25%(North)	GAC Pair 1 Lead 50%(North)	GAC Pair 1 Lead 75%(North)	GAC Pair 2 Lead 25% (North)	GAC Pair 2 Lead 50%(North)	GAC Pair 2 Lead 75%(North)	GAC Pair 3 Lead 25%(North)	GAC Pair 3 Lead 50%(North)	GAC Pair 3 Lead 75%(North)	Post GAC Treated Effluent	NYS MCLs[4]
December 2019 (Well 3)	PFOA	2.6	3.5	5.0	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10^4
	PFOS	3.7	2.4	8.9	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10^4
January 2020 (Well 2)	PFOA	2.4	3.5	3.9	3.3	ND	ND	ND	2.2	ND	ND	1.8	ND	ND	ND	10^4
	PFOS	3.3	2.4	7.7	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10^4
February 2020 (Well 2)	PFOA	3.1	3.9	3.6	3.3	ND	ND	ND	2.7	ND	ND	2.3	ND	ND	ND	10^4
	PFOS	3.6	2.7	6.0	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10^4
March 2020 (Well 1)	PFOA	2.5	2.9	2.9	2.5	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	10^4
	PFOS	3.6	2.8	5.4	3.3	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	10^4
April 2020 (Well 1)	PFOA	3.0	3.1	2.8	2.8	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	10^4
	PFOS	3.4	2.2	4.5	3.0	ND	ND	ND	2.0	ND	ND	ND	ND	ND	ND	10^4
May 2020 (Well 3)	PFOA	3.3	NS	3.7	3.1	2.3	ND	ND	2.7	1.8	ND	2.4	ND	ND	ND	10^4
	PFOS	3.8	NS	5.9	5.0	2.9	ND	ND	3.5	1.9	ND	3.0	ND	ND	ND	10^4
August 2020 (Well 3)	PFOA	2.5	2.7	4.3	4.4	4.1	2.8	ND	3.9	3.1	1.8	4.1	2.6	ND	ND	10^4
	PFOS	3.2	2.2	8.1	8.5	6.1	3.0	ND	6.2	3.5	ND	6.6	2.7	ND	ND	10^4
December 2020 (Well 3)	PFOA	NS[4]	3.2	4.5	4.4	ND[2]	ND	ND	1.8	ND	ND	2.0	ND	ND	ND	10^4
	PFOS	NS[4]	2.5	8.5	7.5	ND[2]	ND	ND	1.8	ND	ND	2.1	ND	ND	ND	10^4
March 2021 (Well 3)	PFOA	NS[4]	NS[4]	2.9	3.1	5.6	ND	ND	3.6	2.1	ND	2.5	ND	ND	ND	10^4
	PFOS	NS[4]	NS[4]	5.3	5.0	12.0	ND	ND	6.6	2.2	ND	4.3	2.1	ND	ND	10^4
June 2021 (Well 3)	PFOA	NS[4]	NS[4]	3.1	2.6	2.4	1.9	ND	2.5	2.0	ND	2.4	1.9	ND	ND	10^4
	PFOS	NS[4]	NS[4]	5.3	3.8	3.5	2.2	ND	4.4	2.5	ND	4.9	2.6	ND	ND	10^4
September 2021 (Well 1)	PFOA	ND	NS[4]	3.1	2.3	2.1	ND	ND	2.1	2.0	ND	2.1	ND	ND	ND	10^4
	PFOS	2.1	NS[4]	5.5	2.9	2.7	ND	ND	3.0	2.0	ND	3.0	1.9	ND	ND	10^4
December 2021 (Well 3**)[5]	PFOA	NS[4]	NS[4]	4.1	3.8	3.7	3.1	2.4	3.4	2.9	2.0	3.7	3.1	2.7	ND	10^4
	PFOS	NS[4]	NS[4]	7.8	6.6	5.8	3.7	2.3	5.9	4.3	2.3	5.4	4.5	3.1	ND	10^4
March 2022 (Well 2)	PFOA	2.7	3.5	3.6	3.2	2.9	2.7	2.2	3.2	2.8	2.1	3.1	2.6	2.1	ND	10^4
	PFOS	2.9	3.3	4.2	2.9	2.7	2.1	ND	2.9	2.3	ND	2.6	2.3	ND	ND	10^4
June 2022 (Well 2)**	PFOA	3.3	2.9	2.7	2.6	2.6	2.3	2.1	2.8	2.4	2.3	2.6	2.3	2.0	ND	10^4
	PFOS	3.4	3.0	4.3	4.0	3.6	2.3	2.1	3.3	2.9	2.3	3.1	2.8	1.9	ND	10^4

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

Date	Analyte	GAC Pair 1 Mid-Point	GAC Pair 1 Post	GAC Pair 1 Lag 25%(South)	GAC Pair 1 Lag 50% (South)	GAC Pair 1 Lag 75%(South)	GAC Pair 2 Mid-Point	GAC Pair 2 Post	GAC Pair 2 Lag 25% (South)	GAC Pair 2 Lag 50%(South)	GAC Pair 2 Lag 75%(South)	GAC Pair 3 Mid-Point	GAC Pair 3 Post	GAC Pair 3 Lag 25%(South)	GAC Pair 3 Lag 50%(South)	GAC Pair 3 Lag 75%(South)	NYS MCLs[3]
February 2020 (Well 2)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
March 2020 (Well 1)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
April 2020 (Well 1)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
May 2020 (Well 3)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
August 2020 (Well 3)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
December 2020 (Well 3)	PFOA	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	**10^3**
	PFOS	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	ND	ND	NS	NS	NS	**10^3**
March 2021 (Well 3)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
June 2021 (Well 3)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
September 2021 (Well 1)	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
December 2021 (Well 3)[5]**	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	**2.2**	ND	ND	**2.1**	ND	ND	ND	ND	**2.1**	ND	ND	ND	ND	**10^3**
March 2022 (Well 2)	PFOA	ND	ND	ND	ND	ND	**1.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
June 2022 (Well 2)**	PFOA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**
	PFOS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**10^3**

Notes:

* Method 533 List Analysis
** At the time of sampling (06/02/2022), Production Well 2 was running to the plant.

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. “ND” means non-detect. The analyte was not detected in the sample.
3. The NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.
4. NS: Not Sampled
5. Con-Test (a Pace Laboratory) began analyzing drinking water samples starting with December 2021 sampling event.

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 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).

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.

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 28, 2022

David Chiusano
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Stewart ANG Base Butterhill
Client Job Number:
Project Number: 30058345
Laboratory Work Order Number: 22F0262

Enclosed are results of analyses for samples as received by the laboratory on June 3, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raymond J. McCarthy
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: David Chiusano

REPORT DATE: 6/28/2022

PURCHASE ORDER NUMBER: 141586

PROJECT NUMBER: 30058345

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22F0262

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Stewart ANG Base Butterhill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
BH20220602 PRE-GAC	22F0262-01	Drinking Water		EPA 533	
BH20220602 POST-GAC	22F0262-02	Drinking Water		EPA 533	
BH20220602 POST-GAC DUP	22F0262-03	Drinking Water		EPA 533	
BH20220602-IN-25	22F0262-04	Drinking Water		EPA 533	
BH20220602-IN-50	22F0262-05	Drinking Water		EPA 533	
BH20220602-IN-75	22F0262-06	Drinking Water		EPA 533	
BH20220602-1 MIDPOINT	22F0262-07	Drinking Water		EPA 533	
BH20220602-1S-25	22F0262-08	Drinking Water		EPA 533	
BH20220602-1S-50	22F0262-09	Drinking Water		EPA 533	
BH20220602-1S-75	22F0262-10	Drinking Water		EPA 533	
BH20220602-1 POST	22F0262-11	Drinking Water		EPA 533	
BH20220602-2N-25	22F0262-12	Drinking Water		EPA 533	
BH20220602-2N-50	22F0262-13	Drinking Water		EPA 533	
BH20220602-2N-75	22F0262-14	Drinking Water		EPA 533	
BH20220602-2 MIDPOINT	22F0262-15	Drinking Water		EPA 533	
BH20220602-2S-25	22F0262-16	Drinking Water		EPA 533	
BH20220602-2S-50	22F0262-17	Drinking Water		EPA 533	
BH20220602-2S-75	22F0262-18	Drinking Water		EPA 533	
BH20220602-2 POST	22F0262-19	Drinking Water		EPA 533	
BH20220602-3N-25	22F0262-20	Drinking Water		EPA 533	
BH20220602-3N-50	22F0262-21	Drinking Water		EPA 533	
BH20220602-3N-75	22F0262-22	Drinking Water		EPA 533	
BH20220602-3 MIDPOINT	22F0262-23	Drinking Water		EPA 533	
BH20220602-3S-25	22F0262-24	Drinking Water		EPA 533	
BH20220602-3S-50	22F0262-25	Drinking Water		EPA 533	
BH20220602-3S-75	22F0262-26	Drinking Water		EPA 533	
BH20220602-3 POST	22F0262-27	Drinking Water		EPA 533	
BH20220602-1 RAW	22F0262-28	Drinking Water		EPA 533	
BH20220602-2 RAW	22F0262-29	Drinking Water		EPA 533	
BH20220602-3 RAW	22F0262-30	Drinking Water		EPA 533	

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 533

Qualifications:

PF-02

Surrogate recovery is outside of control limits. Re-extraction yielded similar surrogate non-conformance. Both results reported.

Analyte & Samples(s) Qualified:

M2-6:2FTS
22F0262-15[BH20220602-2 MIDPOINT], 22F0262-15RE1[BH20220602-2 MIDPOINT]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

8:2 Fluorotelomersulfonic acid (8:2
B310308-BSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

con-test®
A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602 PRE-GAC Sampled: 6/2/2022 09:01

Sample ID: 22F0262-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoropentanoic acid (PFPeA)	2.9	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorohexanoic acid (PFHxA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
11Cl-PF3OUdS (F53B Minor)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
9Cl-PF3ONS (F53B Major)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorodecanoic acid (PFDA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorododecanoic acid (PFDoA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.8	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoroundecanoic acid (PFUnA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluoroheptanoic acid (PFHpA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorooctanoic acid (PFOA)	2.6	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorooctanesulfonic acid (PFOS)	4.0	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL
Perfluorononanoic acid (PFNA)	ND	2.1		ng/L	1		EPA 533	6/9/22	6/11/22 14:24	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	60.0	50-200		6/11/22 14:24
M2-8:2FTS	80.7	50-200		6/11/22 14:24
MPFBA	96.3	50-200		6/11/22 14:24
M3HFPO-DA	108	50-200		6/11/22 14:24
M6PFDA	94.1	50-200		6/11/22 14:24
M3PFBS	98.5	50-200		6/11/22 14:24
M7PFUnA	88.4	50-200		6/11/22 14:24
M2-6:2FTS	68.4	50-200		6/11/22 14:24
M5PFPeA	106	50-200		6/11/22 14:24
M5PFHxA	86.2	50-200		6/11/22 14:24
M3PFHxS	100	50-200		6/11/22 14:24
M4PFHpA	88.2	50-200		6/11/22 14:24
M8PFOA	93.4	50-200		6/11/22 14:24
M8PFOS	97.2	50-200		6/11/22 14:24
M9PFNA	85.5	50-200		6/11/22 14:24
MPFDoA	86.0	50-200		6/11/22 14:24

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Project Location: Stewart ANG Base Butterhill | Sample Description: | Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602 POST-GAC

Sample ID: 22F0262-02 | Start Date/Time: 6/2/2022 9:04:00AM

Sample Matrix: Drinking Water | Stop Date/Time: 6/2/2022 9:08:00AM

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoropentanoic acid (PFPeA)	3.0	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:31	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	57.1	50-200		6/11/22 14:31
M2-8:2FTS	76.5	50-200		6/11/22 14:31
MPFBA	95.8	50-200		6/11/22 14:31
M3HFPO-DA	104	50-200		6/11/22 14:31
M6PFDA	83.3	50-200		6/11/22 14:31
M3PFBS	100	50-200		6/11/22 14:31
M7PFUnA	83.8	50-200		6/11/22 14:31
M2-6:2FTS	74.7	50-200		6/11/22 14:31
M5PFPeA	101	50-200		6/11/22 14:31
M5PFHxA	82.3	50-200		6/11/22 14:31
M3PFHxS	102	50-200		6/11/22 14:31
M4PFHpA	83.8	50-200		6/11/22 14:31
M8PFOA	84.2	50-200		6/11/22 14:31
M8PFOS	100	50-200		6/11/22 14:31
M9PFNA	74.3	50-200		6/11/22 14:31
MPFDoA	81.7	50-200		6/11/22 14:31

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602 POST-GAC DUP Sampled: 6/2/2022 09:05

Sample ID: 22F0262-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.8	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoropentanoic acid (PFPeA)	3.0	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:38	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	56.0	50-200		6/11/22 14:38
M2-8:2FTS	73.8	50-200		6/11/22 14:38
MPFBA	95.4	50-200		6/11/22 14:38
M3HFPO-DA	98.9	50-200		6/11/22 14:38
M6PFDA	90.6	50-200		6/11/22 14:38
M3PFBS	96.4	50-200		6/11/22 14:38
M7PFUnA	89.7	50-200		6/11/22 14:38
M2-6:2FTS	73.7	50-200		6/11/22 14:38
M5PFPeA	100	50-200		6/11/22 14:38
M5PFHxA	86.2	50-200		6/11/22 14:38
M3PFHxS	97.5	50-200		6/11/22 14:38
M4PFHpA	88.9	50-200		6/11/22 14:38
M8PFOA	90.4	50-200		6/11/22 14:38
M8PFOS	94.7	50-200		6/11/22 14:38
M9PFNA	82.4	50-200		6/11/22 14:38
MPFDoA	84.7	50-200		6/11/22 14:38

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-IN-25 Sampled: 6/2/2022 09:25

Sample ID: 22F0262-04

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoropentanoic acid (PFPeA)	2.9	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorohexanoic acid (PFHxA)	2.1	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorooctanoic acid (PFOA)	2.6	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorooctanesulfonic acid (PFOS)	3.6	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:45	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	66.1	50-200		6/11/22 14:45
M2-8:2FTS	87.4	50-200		6/11/22 14:45
MPFBA	109	50-200		6/11/22 14:45
M3HFPO-DA	117	50-200		6/11/22 14:45
M6PFDA	103	50-200		6/11/22 14:45
M3PFBS	106	50-200		6/11/22 14:45
M7PFUnA	104	50-200		6/11/22 14:45
M2-6:2FTS	85.3	50-200		6/11/22 14:45
M5PFPeA	122	50-200		6/11/22 14:45
M5PFHxA	95.5	50-200		6/11/22 14:45
M3PFHxS	110	50-200		6/11/22 14:45
M4PFHpA	98.2	50-200		6/11/22 14:45
M8PFOA	99.1	50-200		6/11/22 14:45
M8PFOS	106	50-200		6/11/22 14:45
M9PFNA	92.8	50-200		6/11/22 14:45
MPFDoA	102	50-200		6/11/22 14:45

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-IN-50 Sampled: 6/2/2022 09:27

Sample ID: 22F0262-05

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoropentanoic acid (PFPeA)	3.1	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorohexanoic acid (PFHxA)	1.9	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.4	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorooctanoic acid (PFOA)	2.3	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorooctanesulfonic acid (PFOS)	2.3	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 14:53	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	72.0	50-200		6/11/22 14:53
M2-8:2FTS	89.7	50-200		6/11/22 14:53
MPFBA	114	50-200		6/11/22 14:53
M3HFPO-DA	116	50-200		6/11/22 14:53
M6PFDA	102	50-200		6/11/22 14:53
M3PFBS	116	50-200		6/11/22 14:53
M7PFUnA	102	50-200		6/11/22 14:53
M2-6:2FTS	90.0	50-200		6/11/22 14:53
M5PFPeA	130	50-200		6/11/22 14:53
M5PFHxA	104	50-200		6/11/22 14:53
M3PFHxS	115	50-200		6/11/22 14:53
M4PFHpA	102	50-200		6/11/22 14:53
M8PFOA	109	50-200		6/11/22 14:53
M8PFOS	118	50-200		6/11/22 14:53
M9PFNA	99.4	50-200		6/11/22 14:53
MPFDoA	94.4	50-200		6/11/22 14:53

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-IN-75 Sampled: 6/2/2022 09:29

Sample ID: 22F0262-06

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.9	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoropentanoic acid (PFPeA)	3.3	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorohexanoic acid (PFHxA)	2.0	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorooctanoic acid (PFOA)	2.1	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorooctanesulfonic acid (PFOS)	2.1	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:00	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	75.9	50-200		6/11/22 15:00
M2-8:2FTS	97.0	50-200		6/11/22 15:00
MPFBA	117	50-200		6/11/22 15:00
M3HFPO-DA	120	50-200		6/11/22 15:00
M6PFDA	110	50-200		6/11/22 15:00
M3PFBS	121	50-200		6/11/22 15:00
M7PFUnA	109	50-200		6/11/22 15:00
M2-6:2FTS	99.0	50-200		6/11/22 15:00
M5PFPeA	129	50-200		6/11/22 15:00
M5PFHxA	105	50-200		6/11/22 15:00
M3PFHxS	127	50-200		6/11/22 15:00
M4PFHpA	111	50-200		6/11/22 15:00
M8PFOA	110	50-200		6/11/22 15:00
M8PFOS	118	50-200		6/11/22 15:00
M9PFNA	107	50-200		6/11/22 15:00
MPFDoA	99.7	50-200		6/11/22 15:00

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-1 MIDPOINT Sampled: 6/2/2022 09:31

Sample ID: 22F0262-07

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.4	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoropentanoic acid (PFPeA)	3.2	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorohexanoic acid (PFHxA)	1.9	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:07	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	66.3	50-200		6/11/22 15:07
M2-8:2FTS	86.2	50-200		6/11/22 15:07
MPFBA	102	50-200		6/11/22 15:07
M3HFPO-DA	99.7	50-200		6/11/22 15:07
M6PFDA	81.4	50-200		6/11/22 15:07
M3PFBS	108	50-200		6/11/22 15:07
M7PFUnA	88.0	50-200		6/11/22 15:07
M2-6:2FTS	100	50-200		6/11/22 15:07
M5PFPeA	111	50-200		6/11/22 15:07
M5PFHxA	89.1	50-200		6/11/22 15:07
M3PFHxS	108	50-200		6/11/22 15:07
M4PFHpA	89.2	50-200		6/11/22 15:07
M8PFOA	89.9	50-200		6/11/22 15:07
M8PFOS	106	50-200		6/11/22 15:07
M9PFNA	77.9	50-200		6/11/22 15:07
MPFDoA	91.7	50-200		6/11/22 15:07

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-1S-25 Sampled: 6/2/2022 09:36

Sample ID: 22F0262-08

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoropentanoic acid (PFPeA)	3.4	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorohexanoic acid (PFHxA)	1.8	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:14	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	61.4	50-200		6/11/22 15:14
M2-8:2FTS	75.5	50-200		6/11/22 15:14
MPFBA	101	50-200		6/11/22 15:14
M3HFPO-DA	114	50-200		6/11/22 15:14
M6PFDA	97.4	50-200		6/11/22 15:14
M3PFBS	104	50-200		6/11/22 15:14
M7PFUnA	95.1	50-200		6/11/22 15:14
M2-6:2FTS	85.3	50-200		6/11/22 15:14
M5PFPeA	107	50-200		6/11/22 15:14
M5PFHxA	92.1	50-200		6/11/22 15:14
M3PFHxS	106	50-200		6/11/22 15:14
M4PFHpA	92.3	50-200		6/11/22 15:14
M8PFOA	95.1	50-200		6/11/22 15:14
M8PFOS	99.6	50-200		6/11/22 15:14
M9PFNA	87.0	50-200		6/11/22 15:14
MPFDoA	88.5	50-200		6/11/22 15:14

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-1S-50 Sampled: 6/2/2022 09:39

Sample ID: 22F0262-09

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoropentanoic acid (PFPeA)	2.9	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 15:21	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	76.1	50-200		6/11/22 15:21
M2-8:2FTS	95.5	50-200		6/11/22 15:21
MPFBA	106	50-200		6/11/22 15:21
M3HFPO-DA	95.3	50-200		6/11/22 15:21
M6PFDA	98.2	50-200		6/11/22 15:21
M3PFBS	109	50-200		6/11/22 15:21
M7PFUnA	97.4	50-200		6/11/22 15:21
M2-6:2FTS	102	50-200		6/11/22 15:21
M5PFPeA	113	50-200		6/11/22 15:21
M5PFHxA	93.0	50-200		6/11/22 15:21
M3PFHxS	111	50-200		6/11/22 15:21
M4PFHpA	96.2	50-200		6/11/22 15:21
M8PFOA	93.5	50-200		6/11/22 15:21
M8PFOS	112	50-200		6/11/22 15:21
M9PFNA	87.4	50-200		6/11/22 15:21
MPFDoA	95.4	50-200		6/11/22 15:21

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-1S-75 Sampled: 6/2/2022 09:40

Sample ID: 22F0262-10

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	6.5	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoropentanoic acid (PFPeA)	2.9	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:29	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	92.7	50-200		6/11/22 15:29
M2-8:2FTS	107	50-200		6/11/22 15:29
MPFBA	93.3	50-200		6/11/22 15:29
M3HFPO-DA	80.5	50-200		6/11/22 15:29
M6PFDA	79.1	50-200		6/11/22 15:29
M3PFBS	102	50-200		6/11/22 15:29
M7PFUnA	80.2	50-200		6/11/22 15:29
M2-6:2FTS	97.9	50-200		6/11/22 15:29
M5PFPeA	98.3	50-200		6/11/22 15:29
M5PFHxA	79.5	50-200		6/11/22 15:29
M3PFHxS	101	50-200		6/11/22 15:29
M4PFHpA	77.9	50-200		6/11/22 15:29
M8PFOA	76.7	50-200		6/11/22 15:29
M8PFOS	95.9	50-200		6/11/22 15:29
M9PFNA	67.9	50-200		6/11/22 15:29
MPFDoA	82.4	50-200		6/11/22 15:29

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-1 POST Sampled: 6/2/2022 09:44

Sample ID: 22F0262-11

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoropentanoic acid (PFPeA)	2.9	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:43	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	67.4	50-200		6/11/22 15:43
M2-8:2FTS	87.2	50-200		6/11/22 15:43
MPFBA	103	50-200		6/11/22 15:43
M3HFPO-DA	107	50-200		6/11/22 15:43
M6PFDA	89.8	50-200		6/11/22 15:43
M3PFBS	113	50-200		6/11/22 15:43
M7PFUnA	90.3	50-200		6/11/22 15:43
M2-6:2FTS	92.6	50-200		6/11/22 15:43
M5PFPeA	105	50-200		6/11/22 15:43
M5PFHxA	91.3	50-200		6/11/22 15:43
M3PFHxS	111	50-200		6/11/22 15:43
M4PFHpA	86.5	50-200		6/11/22 15:43
M8PFOA	89.9	50-200		6/11/22 15:43
M8PFOS	107	50-200		6/11/22 15:43
M9PFNA	84.6	50-200		6/11/22 15:43
MPFDoA	88.5	50-200		6/11/22 15:43

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2N-25 Sampled: 6/2/2022 09:47

Sample ID: 22F0262-12

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.5	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorobutanesulfonic acid (PFBS)	1.9	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoropentanoic acid (PFPeA)	3.3	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorohexanoic acid (PFHxA)	2.1	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.9	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorooctanoic acid (PFOA)	2.8	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorooctanesulfonic acid (PFOS)	3.3	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 15:50	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	72.1	50-200		6/11/22 15:50
M2-8:2FTS	102	50-200		6/11/22 15:50
MPFBA	104	50-200		6/11/22 15:50
M3HFPO-DA	99.4	50-200		6/11/22 15:50
M6PFDA	100	50-200		6/11/22 15:50
M3PFBS	110	50-200		6/11/22 15:50
M7PFUnA	100	50-200		6/11/22 15:50
M2-6:2FTS	92.5	50-200		6/11/22 15:50
M5PFPeA	117	50-200		6/11/22 15:50
M5PFHxA	95.4	50-200		6/11/22 15:50
M3PFHxS	110	50-200		6/11/22 15:50
M4PFHpA	96.1	50-200		6/11/22 15:50
M8PFOA	94.0	50-200		6/11/22 15:50
M8PFOS	113	50-200		6/11/22 15:50
M9PFNA	84.8	50-200		6/11/22 15:50
MPFDoA	100	50-200		6/11/22 15:50

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2N-50 Sampled: 6/2/2022 09:50

Sample ID: 22F0262-13

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.8	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoropentanoic acid (PFPeA)	3.3	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorohexanoic acid (PFHxA)	2.1	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.2	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorooctanoic acid (PFOA)	2.4	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorooctanesulfonic acid (PFOS)	2.9	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 15:57	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	73.5	50-200		6/11/22 15:57
M2-8:2FTS	101	50-200		6/11/22 15:57
MPFBA	111	50-200		6/11/22 15:57
M3HFPO-DA	118	50-200		6/11/22 15:57
M6PFDA	110	50-200		6/11/22 15:57
M3PFBS	117	50-200		6/11/22 15:57
M7PFUnA	109	50-200		6/11/22 15:57
M2-6:2FTS	101	50-200		6/11/22 15:57
M5PFPeA	124	50-200		6/11/22 15:57
M5PFHxA	102	50-200		6/11/22 15:57
M3PFHxS	120	50-200		6/11/22 15:57
M4PFHpA	103	50-200		6/11/22 15:57
M8PFOA	107	50-200		6/11/22 15:57
M8PFOS	113	50-200		6/11/22 15:57
M9PFNA	101	50-200		6/11/22 15:57
MPFDoA	105	50-200		6/11/22 15:57

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2N-75 Sampled: 6/2/2022 09:52

Sample ID: 22F0262-14

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoropentanoic acid (PFPeA)	3.4	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorohexanoic acid (PFHxA)	2.0	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorooctanoic acid (PFOA)	2.3	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorooctanesulfonic acid (PFOS)	2.3	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:05	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	69.2	50-200		6/11/22 16:05
M2-8:2FTS	91.3	50-200		6/11/22 16:05
MPFBA	98.0	50-200		6/11/22 16:05
M3HFPO-DA	104	50-200		6/11/22 16:05
M6PFDA	98.3	50-200		6/11/22 16:05
M3PFBS	104	50-200		6/11/22 16:05
M7PFUnA	98.3	50-200		6/11/22 16:05
M2-6:2FTS	89.0	50-200		6/11/22 16:05
M5PFPeA	108	50-200		6/11/22 16:05
M5PFHxA	89.2	50-200		6/11/22 16:05
M3PFHxS	104	50-200		6/11/22 16:05
M4PFHpA	90.0	50-200		6/11/22 16:05
M8PFOA	91.2	50-200		6/11/22 16:05
M8PFOS	102	50-200		6/11/22 16:05
M9PFNA	87.0	50-200		6/11/22 16:05
MPFDoA	92.3	50-200		6/11/22 16:05

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2 MIDPOINT Sampled: 6/2/2022 09:54

Sample ID: 22F0262-15

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.8	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorobutanoic acid (PFBA)	3.3	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoropentanoic acid (PFPeA)	3.4	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluoropentanoic acid (PFPeA)	2.7	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorohexanoic acid (PFHxA)	2.1	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	9.1	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	2.3	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2 MIDPOINT Sampled: 6/2/2022 09:54

Sample ID: 22F0262-15

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:12	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/20/22	6/27/22 15:54	DRL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	87.5		50-200		6/11/22 16:12
M2-4:2FTS	96.6		50-200		6/27/22 15:54
M2-8:2FTS	162		50-200		6/11/22 16:12
M2-8:2FTS	117		50-200		6/27/22 15:54
MPFBA	112		50-200		6/11/22 16:12
MPFBA	104		50-200		6/27/22 15:54
M3HFPO-DA	118		50-200		6/11/22 16:12
M3HFPO-DA	95.2		50-200		6/27/22 15:54
M6PFDA	112		50-200		6/11/22 16:12
M6PFDA	101		50-200		6/27/22 15:54
M3PFBS	127		50-200		6/11/22 16:12
M3PFBS	125		50-200		6/27/22 15:54
M7PFUnA	112		50-200		6/11/22 16:12
M7PFUnA	93.1		50-200		6/27/22 15:54
M2-6:2FTS	**215**	*	50-200	PF-02	6/11/22 16:12
M2-6:2FTS	**204**	*	50-200	PF-02	6/27/22 15:54
M5PFPeA	124		50-200		6/11/22 16:12
M5PFPeA	144		50-200		6/27/22 15:54
M5PFHxA	107		50-200		6/11/22 16:12
M5PFHxA	98.6		50-200		6/27/22 15:54
M3PFHxS	124		50-200		6/11/22 16:12
M3PFHxS	125		50-200		6/27/22 15:54
M4PFHpA	107		50-200		6/11/22 16:12
M4PFHpA	99.1		50-200		6/27/22 15:54
M8PFOA	104		50-200		6/11/22 16:12
M8PFOA	97.5		50-200		6/27/22 15:54
M8PFOS	116		50-200		6/11/22 16:12
M8PFOS	111		50-200		6/27/22 15:54
M9PFNA	98.0		50-200		6/11/22 16:12
M9PFNA	97.6		50-200		6/27/22 15:54
MPFDoA	118		50-200		6/11/22 16:12
MPFDoA	95.8		50-200		6/27/22 15:54

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2S-25 Sampled: 6/2/2022 09:58

Sample ID: 22F0262-16

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.5	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoropentanoic acid (PFPeA)	2.9	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	6/9/22	6/11/22 16:19	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	66.9	50-200		6/11/22 16:19
M2-8:2FTS	88.3	50-200		6/11/22 16:19
MPFBA	107	50-200		6/11/22 16:19
M3HFPO-DA	98.8	50-200		6/11/22 16:19
M6PFDA	89.7	50-200		6/11/22 16:19
M3PFBS	108	50-200		6/11/22 16:19
M7PFUnA	98.4	50-200		6/11/22 16:19
M2-6:2FTS	79.2	50-200		6/11/22 16:19
M5PFPeA	116	50-200		6/11/22 16:19
M5PFHxA	97.5	50-200		6/11/22 16:19
M3PFHxS	110	50-200		6/11/22 16:19
M4PFHpA	96.4	50-200		6/11/22 16:19
M8PFOA	93.0	50-200		6/11/22 16:19
M8PFOS	103	50-200		6/11/22 16:19
M9PFNA	81.6	50-200		6/11/22 16:19
MPFDoA	96.3	50-200		6/11/22 16:19

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2S-50 Sampled: 6/2/2022 09:59

Sample ID: 22F0262-17

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoropentanoic acid (PFPeA)	2.8	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/9/22	6/11/22 16:26	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	72.0	50-200		6/11/22 16:26
M2-8:2FTS	100	50-200		6/11/22 16:26
MPFBA	110	50-200		6/11/22 16:26
M3HFPO-DA	115	50-200		6/11/22 16:26
M6PFDA	99.3	50-200		6/11/22 16:26
M3PFBS	114	50-200		6/11/22 16:26
M7PFUnA	99.7	50-200		6/11/22 16:26
M2-6:2FTS	98.7	50-200		6/11/22 16:26
M5PFPeA	119	50-200		6/11/22 16:26
M5PFHxA	100	50-200		6/11/22 16:26
M3PFHxS	118	50-200		6/11/22 16:26
M4PFHpA	102	50-200		6/11/22 16:26
M8PFOA	97.8	50-200		6/11/22 16:26
M8PFOS	111	50-200		6/11/22 16:26
M9PFNA	86.6	50-200		6/11/22 16:26
MPFDoA	100	50-200		6/11/22 16:26

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2S-75 Sampled: 6/2/2022 10:01

Sample ID: 22F0262-18

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.4	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoropentanoic acid (PFPeA)	2.4	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
11Cl-PF3OUdS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
9Cl-PF3ONS (F53B Major)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:33	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	59.3	50-200		6/11/22 16:33
M2-8:2FTS	85.3	50-200		6/11/22 16:33
MPFBA	101	50-200		6/11/22 16:33
M3HFPO-DA	110	50-200		6/11/22 16:33
M6PFDA	95.6	50-200		6/11/22 16:33
M3PFBS	104	50-200		6/11/22 16:33
M7PFUnA	94.7	50-200		6/11/22 16:33
M2-6:2FTS	79.4	50-200		6/11/22 16:33
M5PFPeA	106	50-200		6/11/22 16:33
M5PFHxA	90.2	50-200		6/11/22 16:33
M3PFHxS	105	50-200		6/11/22 16:33
M4PFHpA	89.7	50-200		6/11/22 16:33
M8PFOA	91.1	50-200		6/11/22 16:33
M8PFOS	101	50-200		6/11/22 16:33
M9PFNA	87.0	50-200		6/11/22 16:33
MPFDoA	96.8	50-200		6/11/22 16:33

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2 POST Sampled: 6/2/2022 10:03

Sample ID: 22F0262-19

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoropentanoic acid (PFPeA)	2.8	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
11Cl-PF3OUdS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
9Cl-PF3ONS (F53B Major)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	6.0	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	6/9/22	6/11/22 16:40	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	70.6	50-200		6/11/22 16:40
M2-8:2FTS	101	50-200		6/11/22 16:40
MPFBA	111	50-200		6/11/22 16:40
M3HFPO-DA	113	50-200		6/11/22 16:40
M6PFDA	90.6	50-200		6/11/22 16:40
M3PFBS	120	50-200		6/11/22 16:40
M7PFUnA	94.8	50-200		6/11/22 16:40
M2-6:2FTS	112	50-200		6/11/22 16:40
M5PFPeA	114	50-200		6/11/22 16:40
M5PFHxA	95.7	50-200		6/11/22 16:40
M3PFHxS	124	50-200		6/11/22 16:40
M4PFHpA	94.5	50-200		6/11/22 16:40
M8PFOA	94.8	50-200		6/11/22 16:40
M8PFOS	117	50-200		6/11/22 16:40
M9PFNA	83.6	50-200		6/11/22 16:40
MPFDoA	101	50-200		6/11/22 16:40

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3N-25 Sampled: 6/2/2022 10:09

Sample ID: 22F0262-20

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.5	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorobutanesulfonic acid (PFBS)	1.8	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoropentanoic acid (PFPeA)	2.9	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorohexanoic acid (PFHxA)	2.0	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.5	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorooctanoic acid (PFOA)	2.6	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorooctanesulfonic acid (PFOS)	3.1	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/9/22	6/11/22 16:48	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	77.5	50-200		6/11/22 16:48
M2-8:2FTS	107	50-200		6/11/22 16:48
MPFBA	120	50-200		6/11/22 16:48
M3HFPO-DA	114	50-200		6/11/22 16:48
M6PFDA	112	50-200		6/11/22 16:48
M3PFBS	124	50-200		6/11/22 16:48
M7PFUnA	105	50-200		6/11/22 16:48
M2-6:2FTS	106	50-200		6/11/22 16:48
M5PFPeA	135	50-200		6/11/22 16:48
M5PFHxA	106	50-200		6/11/22 16:48
M3PFHxS	129	50-200		6/11/22 16:48
M4PFHpA	107	50-200		6/11/22 16:48
M8PFOA	105	50-200		6/11/22 16:48
M8PFOS	125	50-200		6/11/22 16:48
M9PFNA	97.8	50-200		6/11/22 16:48
MPFDoA	108	50-200		6/11/22 16:48

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3N-50 Sampled: 6/2/2022 10:11

Sample ID: 22F0262-21

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoropentanoic acid (PFPeA)	3.1	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorohexanoic acid (PFHxA)	1.9	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.0	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorooctanoic acid (PFOA)	2.3	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorooctanesulfonic acid (PFOS)	2.8	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:24	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	72.1	50-200		6/21/22 18:24
M2-8:2FTS	95.5	50-200		6/21/22 18:24
MPFBA	102	50-200		6/21/22 18:24
M3HFPO-DA	77.2	50-200		6/21/22 18:24
M6PFDA	87.5	50-200		6/21/22 18:24
M3PFBS	93.8	50-200		6/21/22 18:24
M7PFUnA	95.9	50-200		6/21/22 18:24
M2-6:2FTS	103	50-200		6/21/22 18:24
M5PFPeA	120	50-200		6/21/22 18:24
M5PFHxA	90.0	50-200		6/21/22 18:24
M3PFHxS	106	50-200		6/21/22 18:24
M4PFHpA	90.9	50-200		6/21/22 18:24
M8PFOA	90.4	50-200		6/21/22 18:24
M8PFOS	104	50-200		6/21/22 18:24
M9PFNA	89.1	50-200		6/21/22 18:24
MPFDoA	92.3	50-200		6/21/22 18:24

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3N-75 Sampled: 6/2/2022 10:13

Sample ID: 22F0262-22

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.7	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoropentanoic acid (PFPeA)	2.9	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorohexanoic acid (PFHxA)	1.9	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorohexanesulfonic acid (PFHxS)	1.9	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorooctanoic acid (PFOA)	2.0	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorooctanesulfonic acid (PFOS)	1.9	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:31	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	79.5	50-200		6/21/22 18:31
M2-8:2FTS	110	50-200		6/21/22 18:31
MPFBA	115	50-200		6/21/22 18:31
M3HFPO-DA	84.1	50-200		6/21/22 18:31
M6PFDA	104	50-200		6/21/22 18:31
M3PFBS	107	50-200		6/21/22 18:31
M7PFUnA	98.9	50-200		6/21/22 18:31
M2-6:2FTS	127	50-200		6/21/22 18:31
M5PFPeA	134	50-200		6/21/22 18:31
M5PFHxA	100	50-200		6/21/22 18:31
M3PFHxS	121	50-200		6/21/22 18:31
M4PFHpA	101	50-200		6/21/22 18:31
M8PFOA	101	50-200		6/21/22 18:31
M8PFOS	107	50-200		6/21/22 18:31
M9PFNA	93.5	50-200		6/21/22 18:31
MPFDoA	97.9	50-200		6/21/22 18:31

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3 MIDPOINT Sampled: 6/2/2022 10:16

Sample ID: 22F0262-23

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.4	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoropentanoic acid (PFPeA)	3.1	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorohexanoic acid (PFHxA)	2.2	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	9.1	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:38	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	88.4	50-200		6/21/22 18:38
M2-8:2FTS	132	50-200		6/21/22 18:38
MPFBA	109	50-200		6/21/22 18:38
M3HFPO-DA	79.7	50-200		6/21/22 18:38
M6PFDA	89.7	50-200		6/21/22 18:38
M3PFBS	111	50-200		6/21/22 18:38
M7PFUnA	95.4	50-200		6/21/22 18:38
M2-6:2FTS	145	50-200		6/21/22 18:38
M5PFPeA	122	50-200		6/21/22 18:38
M5PFHxA	93.3	50-200		6/21/22 18:38
M3PFHxS	118	50-200		6/21/22 18:38
M4PFHpA	94.1	50-200		6/21/22 18:38
M8PFOA	97.8	50-200		6/21/22 18:38
M8PFOS	123	50-200		6/21/22 18:38
M9PFNA	87.1	50-200		6/21/22 18:38
MPFDoA	98.4	50-200		6/21/22 18:38

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3S-25 Sampled: 6/2/2022 10:22

Sample ID: 22F0262-24

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.2	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoropentanoic acid (PFPeA)	3.0	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:46	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	87.7	50-200		6/21/22 18:46
M2-8:2FTS	124	50-200		6/21/22 18:46
MPFBA	115	50-200		6/21/22 18:46
M3HFPO-DA	89.9	50-200		6/21/22 18:46
M6PFDA	102	50-200		6/21/22 18:46
M3PFBS	108	50-200		6/21/22 18:46
M7PFUnA	103	50-200		6/21/22 18:46
M2-6:2FTS	125	50-200		6/21/22 18:46
M5PFPeA	129	50-200		6/21/22 18:46
M5PFHxA	101	50-200		6/21/22 18:46
M3PFHxS	114	50-200		6/21/22 18:46
M4PFHpA	101	50-200		6/21/22 18:46
M8PFOA	105	50-200		6/21/22 18:46
M8PFOS	111	50-200		6/21/22 18:46
M9PFNA	97.0	50-200		6/21/22 18:46
MPFDoA	102	50-200		6/21/22 18:46

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3S-50 Sampled: 6/2/2022 10:24

Sample ID: 22F0262-25

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.4	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoropentanoic acid (PFPeA)	2.8	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 18:53	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	73.7	50-200		6/21/22 18:53
M2-8:2FTS	99.6	50-200		6/21/22 18:53
MPFBA	96.1	50-200		6/21/22 18:53
M3HFPO-DA	72.3	50-200		6/21/22 18:53
M6PFDA	83.0	50-200		6/21/22 18:53
M3PFBS	102	50-200		6/21/22 18:53
M7PFUnA	86.7	50-200		6/21/22 18:53
M2-6:2FTS	97.1	50-200		6/21/22 18:53
M5PFPeA	106	50-200		6/21/22 18:53
M5PFHxA	86.1	50-200		6/21/22 18:53
M3PFHxS	108	50-200		6/21/22 18:53
M4PFHpA	86.2	50-200		6/21/22 18:53
M8PFOA	90.1	50-200		6/21/22 18:53
M8PFOS	111	50-200		6/21/22 18:53
M9PFNA	83.5	50-200		6/21/22 18:53
MPFDoA	85.1	50-200		6/21/22 18:53

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3S-75 Sampled: 6/2/2022 10:28

Sample ID: 22F0262-26

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.4	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoropentanoic acid (PFPeA)	3.0	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	6/13/22	6/21/22 19:00	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	73.0	50-200		6/21/22 19:00
M2-8:2FTS	110	50-200		6/21/22 19:00
MPFBA	109	50-200		6/21/22 19:00
M3HFPO-DA	84.3	50-200		6/21/22 19:00
M6PFDA	91.1	50-200		6/21/22 19:00
M3PFBS	106	50-200		6/21/22 19:00
M7PFUnA	92.5	50-200		6/21/22 19:00
M2-6:2FTS	95.2	50-200		6/21/22 19:00
M5PFPeA	115	50-200		6/21/22 19:00
M5PFHxA	96.9	50-200		6/21/22 19:00
M3PFHxS	119	50-200		6/21/22 19:00
M4PFHpA	96.0	50-200		6/21/22 19:00
M8PFOA	94.9	50-200		6/21/22 19:00
M8PFOS	113	50-200		6/21/22 19:00
M9PFNA	87.7	50-200		6/21/22 19:00
MPFDoA	88.7	50-200		6/21/22 19:00

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3 POST Sampled: 6/2/2022 10:29

Sample ID: 22F0262-27

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.8	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoropentanoic acid (PFPeA)	3.3	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	5.4	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	6/13/22	6/21/22 19:07	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	65.2	50-200		6/21/22 19:07
M2-8:2FTS	93.2	50-200		6/21/22 19:07
MPFBA	90.7	50-200		6/21/22 19:07
M3HFPO-DA	69.7	50-200		6/21/22 19:07
M6PFDA	71.7	50-200		6/21/22 19:07
M3PFBS	93.0	50-200		6/21/22 19:07
M7PFUnA	75.7	50-200		6/21/22 19:07
M2-6:2FTS	108	50-200		6/21/22 19:07
M5PFPeA	96.4	50-200		6/21/22 19:07
M5PFHxA	79.5	50-200		6/21/22 19:07
M3PFHxS	100	50-200		6/21/22 19:07
M4PFHpA	79.3	50-200		6/21/22 19:07
M8PFOA	76.2	50-200		6/21/22 19:07
M8PFOS	101	50-200		6/21/22 19:07
M9PFNA	68.6	50-200		6/21/22 19:07
MPFDoA	77.9	50-200		6/21/22 19:07

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-1 RAW Sampled: 6/2/2022 11:15

Sample ID: 22F0262-28

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	7.2	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorobutanesulfonic acid (PFBS)	2.7	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoropentanoic acid (PFPeA)	2.4	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.6	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorooctanoic acid (PFOA)	3.3	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorooctanesulfonic acid (PFOS)	3.4	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:14	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	74.7	50-200		6/21/22 19:14
M2-8:2FTS	115	50-200		6/21/22 19:14
MPFBA	99.4	50-200		6/21/22 19:14
M3HFPO-DA	74.9	50-200		6/21/22 19:14
M6PFDA	74.4	50-200		6/21/22 19:14
M3PFBS	95.1	50-200		6/21/22 19:14
M7PFUnA	84.3	50-200		6/21/22 19:14
M2-6:2FTS	96.9	50-200		6/21/22 19:14
M5PFPeA	111	50-200		6/21/22 19:14
M5PFHxA	87.7	50-200		6/21/22 19:14
M3PFHxS	103	50-200		6/21/22 19:14
M4PFHpA	83.9	50-200		6/21/22 19:14
M8PFOA	81.4	50-200		6/21/22 19:14
M8PFOS	99.3	50-200		6/21/22 19:14
M9PFNA	68.1	50-200		6/21/22 19:14
MPFDoA	87.9	50-200		6/21/22 19:14

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-2 RAW Sampled: 6/2/2022 11:04

Sample ID: 22F0262-29

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorobutanesulfonic acid (PFBS)	1.8	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoropentanoic acid (PFPeA)	2.7	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorohexanoic acid (PFHxA)	1.9	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.8	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorooctanoic acid (PFOA)	2.9	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorooctanesulfonic acid (PFOS)	3.0	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:22	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	82.4	50-200		6/21/22 19:22
M2-8:2FTS	108	50-200		6/21/22 19:22
MPFBA	114	50-200		6/21/22 19:22
M3HFPO-DA	101	50-200		6/21/22 19:22
M6PFDA	94.2	50-200		6/21/22 19:22
M3PFBS	107	50-200		6/21/22 19:22
M7PFUnA	90.4	50-200		6/21/22 19:22
M2-6:2FTS	105	50-200		6/21/22 19:22
M5PFPeA	134	50-200		6/21/22 19:22
M5PFHxA	100	50-200		6/21/22 19:22
M3PFHxS	110	50-200		6/21/22 19:22
M4PFHpA	102	50-200		6/21/22 19:22
M8PFOA	104	50-200		6/21/22 19:22
M8PFOS	123	50-200		6/21/22 19:22
M9PFNA	93.1	50-200		6/21/22 19:22
MPFDoA	93.8	50-200		6/21/22 19:22

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Project Location: Stewart ANG Base Butterhill Sample Description: Work Order: 22F0262

Date Received: 6/3/2022

Field Sample #: BH20220602-3 RAW Sampled: 6/2/2022 11:33

Sample ID: 22F0262-30

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	3.6	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoropentanoic acid (PFPeA)	4.5	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorohexanoic acid (PFHxA)	3.2	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.9	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorooctanoic acid (PFOA)	2.7	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorooctanesulfonic acid (PFOS)	4.3	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/13/22	6/21/22 19:29	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	92.6	50-200		6/21/22 19:29
M2-8:2FTS	133	50-200		6/21/22 19:29
MPFBA	111	50-200		6/21/22 19:29
M3HFPO-DA	81.0	50-200		6/21/22 19:29
M6PFDA	78.1	50-200		6/21/22 19:29
M3PFBS	106	50-200		6/21/22 19:29
M7PFUnA	89.8	50-200		6/21/22 19:29
M2-6:2FTS	127	50-200		6/21/22 19:29
M5PFPeA	135	50-200		6/21/22 19:29
M5PFHxA	98.5	50-200		6/21/22 19:29
M3PFHxS	114	50-200		6/21/22 19:29
M4PFHpA	96.5	50-200		6/21/22 19:29
M8PFOA	94.2	50-200		6/21/22 19:29
M8PFOS	117	50-200		6/21/22 19:29
M9PFNA	74.7	50-200		6/21/22 19:29
MPFDoA	96.1	50-200		6/21/22 19:29

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Sample Extraction Data

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F0262-01 [BH20220602 PRE-GAC]	B310307	240	1.00	06/09/22
22F0262-02 [BH20220602 POST-GAC]	B310307	267	1.00	06/09/22
22F0262-03 [BH20220602 POST-GAC DUP]	B310307	264	1.00	06/09/22
22F0262-04 [BH20220602-IN-25]	B310307	264	1.00	06/09/22
22F0262-05 [BH20220602-IN-50]	B310307	262	1.00	06/09/22
22F0262-06 [BH20220602-IN-75]	B310307	278	1.00	06/09/22
22F0262-07 [BH20220602-1 MIDPOINT]	B310307	276	1.00	06/09/22
22F0262-08 [BH20220602-1S-25]	B310307	275	1.00	06/09/22
22F0262-09 [BH20220602-1S-50]	B310307	276	1.00	06/09/22
22F0262-10 [BH20220602-1S-75]	B310307	265	1.00	06/09/22
22F0262-11 [BH20220602-1 POST]	B310307	266	1.00	06/09/22
22F0262-12 [BH20220602-2N-25]	B310307	291	1.00	06/09/22
22F0262-13 [BH20220602-2N-50]	B310307	260	1.00	06/09/22
22F0262-14 [BH20220602-2N-75]	B310307	265	1.00	06/09/22
22F0262-15 [BH20220602-2 MIDPOINT]	B310307	274	1.00	06/09/22
22F0262-16 [BH20220602-2S-25]	B310307	298	1.00	06/09/22
22F0262-17 [BH20220602-2S-50]	B310307	259	1.00	06/09/22
22F0262-18 [BH20220602-2S-75]	B310307	253	1.00	06/09/22
22F0262-19 [BH20220602-2 POST]	B310307	245	1.00	06/09/22
22F0262-20 [BH20220602-3N-25]	B310307	271	1.00	06/09/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F0262-21 [BH20220602-3N-50]	B310308	266	1.00	06/13/22
22F0262-22 [BH20220602-3N-75]	B310308	260	1.00	06/13/22
22F0262-23 [BH20220602-3 MIDPOINT]	B310308	257	1.00	06/13/22
22F0262-24 [BH20220602-3S-25]	B310308	260	1.00	06/13/22
22F0262-25 [BH20220602-3S-50]	B310308	265	1.00	06/13/22
22F0262-26 [BH20220602-3S-75]	B310308	268	1.00	06/13/22
22F0262-27 [BH20220602-3 POST]	B310308	295	1.00	06/13/22
22F0262-28 [BH20220602-1 RAW]	B310308	281	1.00	06/13/22
22F0262-29 [BH20220602-2 RAW]	B310308	285	1.00	06/13/22
22F0262-30 [BH20220602-3 RAW]	B310308	284	1.00	06/13/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F0262-15RE1 [BH20220602-2 MIDPOINT]	B310652	263	1.00	06/20/22

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310307 - EPA 533											
Blank (B310307-BLK1)					Prepared: 06/09/22 Analyzed: 06/11/22						
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	*32.4*			ng/L	34.3		94.5	50-200			
Surrogate: M2-8:2FTS	*37.2*			ng/L	35.1		106	50-200			
Surrogate: MPFBA	*42.0*			ng/L	36.6		115	50-200			
Surrogate: M3HFPO-DA	*45.6*			ng/L	36.6		125	50-200			
Surrogate: M6PFDA	*41.8*			ng/L	36.6		114	50-200			
Surrogate: M3PFBS	*39.6*			ng/L	34.1		116	50-200			
Surrogate: M7PFUnA	*42.1*			ng/L	36.6		115	50-200			
Surrogate: M2-6:2FTS	*37.2*			ng/L	34.8		107	50-200			
Surrogate: M5PFPeA	*42.5*			ng/L	36.6		116	50-200			
Surrogate: M5PFHxA	*40.4*			ng/L	36.6		110	50-200			
Surrogate: M3PFHxS	*41.2*			ng/L	34.7		119	50-200			
Surrogate: M4PFHpA	*40.3*			ng/L	36.6		110	50-200			
Surrogate: M8PFOA	*42.4*			ng/L	36.6		116	50-200			
Surrogate: M8PFOS	*38.3*			ng/L	35.1		109	50-200			
Surrogate: M9PFNA	*38.7*			ng/L	36.6		106	50-200			
Surrogate: MPFDoA	*39.9*			ng/L	36.6		109	50-200			
LCS (B310307-BS1)					Prepared: 06/09/22 Analyzed: 06/11/22						
Perfluorobutanoic acid (PFBA)	1.58	1.8		ng/L	1.81		87.2	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.34	1.8		ng/L	1.60		83.8	50-150			
Perfluoropentanoic acid (PFPeA)	1.54	1.8		ng/L	1.81		85.1	50-150			
Perfluorohexanoic acid (PFHxA)	1.57	1.8		ng/L	1.81		86.8	50-150			
11Cl-PF3OUdS (F53B Minor)	1.59	1.8		ng/L	1.71		93.0	50-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310307 - EPA 533											
LCS (B310307-BS1)					Prepared: 06/09/22 Analyzed: 06/11/22						
9Cl-PF3ONS (F53B Major)	1.47	1.8		ng/L	1.69		87.3	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.67	1.8		ng/L	1.71		97.8	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.30	1.8		ng/L	1.81		71.9	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.18	1.8		ng/L	1.74		67.7	50-150			
Perfluorodecanoic acid (PFDA)	1.26	1.8		ng/L	1.81		69.7	50-150			
Perfluorododecanoic acid (PFDoA)	1.58	1.8		ng/L	1.81		87.2	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.40	1.8		ng/L	1.61		86.6	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.57	1.8		ng/L	1.73		90.6	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.34	1.8		ng/L	1.69		79.2	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.32	1.8		ng/L	1.66		79.3	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.60	1.8		ng/L	1.81		88.5	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.38	1.8		ng/L	1.81		76.3	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.21	1.8		ng/L	1.72		70.1	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.38	1.8		ng/L	1.70		81.0	50-150			
Perfluoroundecanoic acid (PFUnA)	1.36	1.8		ng/L	1.81		74.9	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.45	1.8		ng/L	1.81		79.9	50-150			
Perfluoroheptanoic acid (PFHpA)	1.63	1.8		ng/L	1.81		89.7	50-150			
Perfluorooctanoic acid (PFOA)	1.36	1.8		ng/L	1.81		74.9	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.45	1.8		ng/L	1.68		86.5	50-150			
Perfluorononanoic acid (PFNA)	1.49	1.8		ng/L	1.81		82.0	50-150			
Surrogate: M2-4:2FTS	*33.0*			ng/L	34.0		97.2	50-200			
Surrogate: M2-8:2FTS	*34.8*			ng/L	34.8		100	50-200			
Surrogate: MPFBA	*40.3*			ng/L	36.2		111	50-200			
Surrogate: M3HFPO-DA	*46.7*			ng/L	36.2		129	50-200			
Surrogate: M6PFDA	*39.0*			ng/L	36.2		108	50-200			
Surrogate: M3PFBS	*39.1*			ng/L	33.8		116	50-200			
Surrogate: M7PFUnA	*39.3*			ng/L	36.2		108	50-200			
Surrogate: M2-6:2FTS	*37.7*			ng/L	34.5		109	50-200			
Surrogate: M5PFPeA	*40.8*			ng/L	36.2		113	50-200			
Surrogate: M5PFHxA	*38.6*			ng/L	36.2		107	50-200			
Surrogate: M3PFHxS	*38.3*			ng/L	34.3		111	50-200			
Surrogate: M4PFHpA	*38.7*			ng/L	36.2		107	50-200			
Surrogate: M8PFOA	*39.9*			ng/L	36.2		110	50-200			
Surrogate: M8PFOS	*36.9*			ng/L	34.7		106	50-200			
Surrogate: M9PFNA	*36.8*			ng/L	36.2		102	50-200			
Surrogate: MPFDoA	*37.8*			ng/L	36.2		104	50-200			
Matrix Spike (B310307-MS1)		**Source: 22F0262-02**			Prepared: 06/09/22 Analyzed: 06/11/22						
Perfluorobutanoic acid (PFBA)	5.58	2.0		ng/L	2.05	3.62	95.9	50-150			
Perfluorobutanesulfonic acid (PFBS)	2.14	2.0		ng/L	1.81	0.703	79.1	50-150			
Perfluoropentanoic acid (PFPeA)	4.78	2.0		ng/L	2.05	3.00	86.9	50-150			
Perfluorohexanoic acid (PFHxA)	3.12	2.0		ng/L	2.05	1.25	91.6	50-150			
11Cl-PF3OUdS (F53B Minor)	1.44	2.0		ng/L	1.93	ND	74.6	50-150			
9Cl-PF3ONS (F53B Major)	1.73	2.0		ng/L	1.91	ND	90.5	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.80	2.0		ng/L	1.93	ND	93.4	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.52	2.0		ng/L	2.05	ND	74.5	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.65	2.0		ng/L	1.96	ND	84.1	50-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310307 - EPA 533											
Matrix Spike (B310307-MS1)	**Source: 22F0262-02**				Prepared: 06/09/22 Analyzed: 06/11/22						
Perfluorodecanoic acid (PFDA)	1.67	2.0		ng/L	2.05	ND	81.4	50-150			
Perfluorododecanoic acid (PFDoA)	1.81	2.0		ng/L	2.05	ND	88.6	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.77	2.0		ng/L	1.82	ND	97.4	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.64	2.0		ng/L	1.95	ND	84.0	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.77	2.0		ng/L	1.91	ND	92.6	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.94	2.0		ng/L	1.87	0.436	80.3	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.98	2.0		ng/L	2.05	ND	96.6	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.62	2.0		ng/L	2.05	ND	79.4	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.10	2.0		ng/L	1.94	ND	108	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.73	2.0		ng/L	1.92	ND	89.9	50-150			
Perfluoroundecanoic acid (PFUnA)	1.78	2.0		ng/L	2.05	ND	87.1	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.82	2.0		ng/L	2.05	ND	89.1	50-150			
Perfluoroheptanoic acid (PFHpA)	2.37	2.0		ng/L	2.05	0.421	95.3	50-150			
Perfluorooctanoic acid (PFOA)	2.49	2.0		ng/L	2.05	0.508	96.9	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.02	2.0		ng/L	1.89	ND	107	50-150			
Perfluorononanoic acid (PFNA)	1.98	2.0		ng/L	2.05	ND	96.6	50-150			
Surrogate: M2-4:2FTS	*26.4*			ng/L	38.4		68.8	50-200			
Surrogate: M2-8:2FTS	*36.1*			ng/L	39.3		92.0	50-200			
Surrogate: MPFBA	*44.7*			ng/L	40.9		109	50-200			
Surrogate: M3HFPO-DA	*46.9*			ng/L	40.9		115	50-200			
Surrogate: M6PFDA	*41.1*			ng/L	40.9		100	50-200			
Surrogate: M3PFBS	*44.7*			ng/L	38.1		117	50-200			
Surrogate: M7PFUnA	*39.7*			ng/L	40.9		97.1	50-200			
Surrogate: M2-6:2FTS	*35.3*			ng/L	38.9		90.6	50-200			
Surrogate: M5PFPeA	*47.3*			ng/L	40.9		116	50-200			
Surrogate: M5PFHxA	*39.5*			ng/L	40.9		96.4	50-200			
Surrogate: M3PFHxS	*46.0*			ng/L	38.8		119	50-200			
Surrogate: M4PFHpA	*39.5*			ng/L	40.9		96.6	50-200			
Surrogate: M8PFOA	*40.6*			ng/L	40.9		99.2	50-200			
Surrogate: M8PFOS	*44.8*			ng/L	39.2		114	50-200			
Surrogate: M9PFNA	*37.2*			ng/L	40.9		91.0	50-200			
Surrogate: MPFDoA	*38.6*			ng/L	40.9		94.3	50-200			
Matrix Spike Dup (B310307-MSD1)	**Source: 22F0262-02**				Prepared: 06/09/22 Analyzed: 06/11/22						
Perfluorobutanoic acid (PFBA)	5.55	2.0		ng/L	1.96	3.62	98.8	50-150	0.540	50	
Perfluorobutanesulfonic acid (PFBS)	2.04	2.0		ng/L	1.73	0.703	77.3	50-150	4.56	50	
Perfluoropentanoic acid (PFPeA)	4.54	2.0		ng/L	1.96	3.00	78.8	50-150	5.09	50	
Perfluorohexanoic acid (PFHxA)	2.79	2.0		ng/L	1.96	1.25	79.0	50-150	11.2	50	
11Cl-PF3OUdS (F53B Minor)	1.20	2.0		ng/L	1.84	ND	64.9	50-150	18.4	50	
9Cl-PF3ONS (F53B Major)	1.50	2.0		ng/L	1.82	ND	82.3	50-150	14.0	50	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.56	2.0		ng/L	1.84	ND	84.9	50-150	14.1	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.55	2.0		ng/L	1.96	ND	79.1	50-150	1.58	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.18	2.0		ng/L	1.88	ND	63.1	50-150	33.0	50	
Perfluorodecanoic acid (PFDA)	1.27	2.0		ng/L	1.96	ND	64.8	50-150	27.2	50	
Perfluorododecanoic acid (PFDoA)	1.63	2.0		ng/L	1.96	ND	83.5	50-150	10.4	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.50	2.0		ng/L	1.74	ND	85.9	50-150	17.0	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.63	2.0		ng/L	1.87	ND	87.3	50-150	0.678	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.53	2.0		ng/L	1.83	ND	83.5	50-150	14.9	50	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310307 - EPA 533											
Matrix Spike Dup (B310307-MSD1)	**Source: 22F0262-02**				Prepared: 06/09/22 Analyzed: 06/11/22						
Perfluorohexanesulfonic acid (PFHxS)	2.03	2.0		ng/L	1.79	0.436	89.3	50-150	4.70	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.72	2.0		ng/L	1.96	ND	88.0	50-150	13.8	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.43	2.0		ng/L	1.96	ND	73.3	50-150	12.5	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.55	2.0		ng/L	1.86	ND	83.7	50-150	29.6	50	
Perfluoropetanesulfonic acid (PFPeS)	1.61	2.0		ng/L	1.84	ND	87.5	50-150	7.22	50	
Perfluoroundecanoic acid (PFUnA)	1.49	2.0		ng/L	1.96	ND	76.0	50-150	18.0	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.52	2.0		ng/L	1.96	ND	77.8	50-150	18.1	50	
Perfluoroheptanoic acid (PFHpA)	2.24	2.0		ng/L	1.96	0.421	92.9	50-150	5.76	50	
Perfluorooctanoic acid (PFOA)	2.06	2.0		ng/L	1.96	0.508	79.6	50-150	18.7	50	
Perfluorooctanesulfonic acid (PFOS)	1.56	2.0		ng/L	1.81	ND	86.4	50-150	25.5	50	
Perfluorononanoic acid (PFNA)	1.47	2.0		ng/L	1.96	ND	75.3	50-150	29.2	50	
Surrogate: M2-4:2FTS	*21.1*			ng/L	36.7		57.5	50-200			
Surrogate: M2-8:2FTS	*31.6*			ng/L	37.5		84.1	50-200			
Surrogate: MPFBA	*37.5*			ng/L	39.1		95.9	50-200			
Surrogate: M3HFPO-DA	*35.4*			ng/L	39.1		90.6	50-200			
Surrogate: M6PFDA	*34.8*			ng/L	39.1		89.0	50-200			
Surrogate: M3PFBS	*37.1*			ng/L	36.4		102	50-200			
Surrogate: M7PFUnA	*37.7*			ng/L	39.1		96.5	50-200			
Surrogate: M2-6:2FTS	*27.9*			ng/L	37.2		75.0	50-200			
Surrogate: M5PFPeA	*39.2*			ng/L	39.1		100	50-200			
Surrogate: M5PFHxA	*34.4*			ng/L	39.1		87.9	50-200			
Surrogate: M3PFHxS	*37.3*			ng/L	37.1		101	50-200			
Surrogate: M4PFHpA	*34.3*			ng/L	39.1		87.6	50-200			
Surrogate: M8PFOA	*36.6*			ng/L	39.1		93.6	50-200			
Surrogate: M8PFOS	*38.6*			ng/L	37.5		103	50-200			
Surrogate: M9PFNA	*35.4*			ng/L	39.1		90.6	50-200			
Surrogate: MPFDoA	*34.7*			ng/L	39.1		88.6	50-200			
Batch B310308 - EPA 533											
Blank (B310308-BLK1)					Prepared: 06/13/22 Analyzed: 06/21/22						
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310308 - EPA 533											
Blank (B310308-BLK1)					Prepared: 06/13/22 Analyzed: 06/21/22						
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	*35.3*			ng/L	33.0		107	50-200			
Surrogate: M2-8:2FTS	*40.2*			ng/L	33.8		119	50-200			
Surrogate: MPFBA	*41.3*			ng/L	35.2		117	50-200			
Surrogate: M3HFPO-DA	*40.1*			ng/L	35.2		114	50-200			
Surrogate: M6PFDA	*44.4*			ng/L	35.2		126	50-200			
Surrogate: M3PFBS	*40.5*			ng/L	32.8		123	50-200			
Surrogate: M7PFUnA	*44.5*			ng/L	35.2		127	50-200			
Surrogate: M2-6:2FTS	*42.6*			ng/L	33.5		127	50-200			
Surrogate: M5PFPeA	*41.1*			ng/L	35.2		117	50-200			
Surrogate: M5PFHxA	*41.0*			ng/L	35.2		116	50-200			
Surrogate: M3PFHxS	*42.2*			ng/L	33.4		126	50-200			
Surrogate: M4PFHpA	*42.3*			ng/L	35.2		120	50-200			
Surrogate: M8PFOA	*43.8*			ng/L	35.2		125	50-200			
Surrogate: M8PFOS	*42.4*			ng/L	33.7		126	50-200			
Surrogate: M9PFNA	*41.3*			ng/L	35.2		117	50-200			
Surrogate: MPFDoA	*42.7*			ng/L	35.2		121	50-200			
LCS (B310308-BS1)					Prepared: 06/13/22 Analyzed: 06/21/22						
Perfluorobutanoic acid (PFBA)	7.52	1.7		ng/L	8.71		86.3	70-130			
Perfluorobutanesulfonic acid (PFBS)	6.53	1.7		ng/L	7.71		84.7	70-130			
Perfluoropentanoic acid (PFPeA)	7.41	1.7		ng/L	8.71		85.0	70-130			
Perfluorohexanoic acid (PFHxA)	7.65	1.7		ng/L	8.71		87.8	70-130			
11Cl-PF3OUdS (F53B Minor)	5.94	1.7		ng/L	8.21		72.3	70-130			
9Cl-PF3ONS (F53B Major)	5.94	1.7		ng/L	8.12		73.1	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.19	1.7		ng/L	8.21		87.6	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.02	1.7		ng/L	8.71		92.0	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	7.52	1.7		ng/L	8.36		89.9	70-130			
Perfluorodecanoic acid (PFDA)	7.55	1.7		ng/L	8.71		86.7	70-130			
Perfluorododecanoic acid (PFDoA)	7.48	1.7		ng/L	8.71		85.8	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.33	1.7		ng/L	7.75		94.5	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	7.76	1.7		ng/L	8.32		93.2	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	7.01	1.7		ng/L	8.15		86.1	70-130			
Perfluorohexanesulfonic acid (PFHxS)	6.74	1.7		ng/L	7.97		84.5	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	8.19	1.7		ng/L	8.71		94.0	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	7.34	1.7		ng/L	8.71		84.2	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	7.76	1.7		ng/L	8.28		93.8	70-130			
Perfluoropetanesulfonic acid (PFPeS)	6.77	1.7		ng/L	8.19		82.7	70-130			
Perfluoroundecanoic acid (PFUnA)	7.08	1.7		ng/L	8.71		81.2	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	7.70	1.7		ng/L	8.71		88.3	70-130			
Perfluoroheptanoic acid (PFHpA)	7.83	1.7		ng/L	8.71		89.8	70-130			
Perfluorooctanoic acid (PFOA)	7.54	1.7		ng/L	8.71		86.5	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310308 - EPA 533											
LCS (B310308-BS1)					Prepared: 06/13/22 Analyzed: 06/21/22						
Perfluorooctanesulfonic acid (PFOS)	6.39	1.7		ng/L	8.06		79.2	70-130			
Perfluorononanoic acid (PFNA)	7.19	1.7		ng/L	8.71		82.6	70-130			
Surrogate: M2-4:2FTS	*31.7*			ng/L	32.7		96.8	50-200			
Surrogate: M2-8:2FTS	*41.7*			ng/L	33.5		125	50-200			
Surrogate: MPFBA	*41.5*			ng/L	34.8		119	50-200			
Surrogate: M3HFPO-DA	*34.6*			ng/L	34.8		99.3	50-200			
Surrogate: M6PFDA	*40.1*			ng/L	34.8		115	50-200			
Surrogate: M3PFBS	*37.5*			ng/L	32.5		116	50-200			
Surrogate: M7PFUnA	*41.7*			ng/L	34.8		120	50-200			
Surrogate: M2-6:2FTS	*38.2*			ng/L	33.1		115	50-200			
Surrogate: M5PFPeA	*41.4*			ng/L	34.8		119	50-200			
Surrogate: M5PFHxA	*38.0*			ng/L	34.8		109	50-200			
Surrogate: M3PFHxS	*40.7*			ng/L	33.0		123	50-200			
Surrogate: M4PFHpA	*38.6*			ng/L	34.8		111	50-200			
Surrogate: M8PFOA	*40.0*			ng/L	34.8		115	50-200			
Surrogate: M8PFOS	*40.0*			ng/L	33.4		120	50-200			
Surrogate: M9PFNA	*40.6*			ng/L	34.8		116	50-200			
Surrogate: MPFDoA	*38.9*			ng/L	34.8		112	50-200			
LCS Dup (B310308-BSD1)					Prepared: 06/13/22 Analyzed: 06/21/22						
Perfluorobutanoic acid (PFBA)	8.40	1.9		ng/L	9.46		88.8	70-130	11.1	30	
Perfluorobutanesulfonic acid (PFBS)	7.25	1.9		ng/L	8.37		86.6	70-130	10.4	30	
Perfluoropentanoic acid (PFPeA)	8.33	1.9		ng/L	9.46		88.1	70-130	11.8	30	
Perfluorohexanoic acid (PFHxA)	8.23	1.9		ng/L	9.46		87.0	70-130	7.34	30	
11Cl-PF3OUdS (F53B Minor)	7.12	1.9		ng/L	8.91		79.8	70-130	18.1	30	
9Cl-PF3ONS (F53B Major)	6.66	1.9		ng/L	8.82		75.5	70-130	11.5	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.94	1.9		ng/L	8.91		89.1	70-130	9.95	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.00	1.9		ng/L	9.46		95.1	70-130	11.5	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10.5	1.9		ng/L	9.08		116	70-130	**33.1** *	30	R-05
Perfluorodecanoic acid (PFDA)	8.30	1.9		ng/L	9.46		87.7	70-130	9.47	30	
Perfluorododecanoic acid (PFDoA)	8.17	1.9		ng/L	9.46		86.4	70-130	8.86	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	8.15	1.9		ng/L	8.42		96.8	70-130	10.6	30	
Perfluoroheptanesulfonic acid (PFHpS)	7.76	1.9		ng/L	9.04		85.9	70-130	0.0562	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	7.40	1.9		ng/L	8.85		83.6	70-130	5.36	30	
Perfluorohexanesulfonic acid (PFHxS)	7.00	1.9		ng/L	8.66		80.9	70-130	3.86	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	9.29	1.9		ng/L	9.46		98.2	70-130	12.6	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.18	1.9		ng/L	9.46		86.4	70-130	10.9	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	7.85	1.9		ng/L	8.99		87.3	70-130	1.10	30	
Perfluoropetanesulfonic acid (PFPeS)	7.68	1.9		ng/L	8.89		86.3	70-130	12.6	30	
Perfluoroundecanoic acid (PFUnA)	8.49	1.9		ng/L	9.46		89.7	70-130	18.1	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.47	1.9		ng/L	9.46		89.6	70-130	9.63	30	
Perfluoroheptanoic acid (PFHpA)	8.14	1.9		ng/L	9.46		86.1	70-130	3.95	30	
Perfluorooctanoic acid (PFOA)	8.21	1.9		ng/L	9.46		86.8	70-130	8.61	30	
Perfluorooctanesulfonic acid (PFOS)	6.42	1.9		ng/L	8.75		73.4	70-130	0.588	30	
Perfluorononanoic acid (PFNA)	8.31	1.9		ng/L	9.46		87.8	70-130	14.4	30	
Surrogate: M2-4:2FTS	*32.9*			ng/L	35.5		92.8	50-200			
Surrogate: M2-8:2FTS	*38.1*			ng/L	36.3		105	50-200			
Surrogate: MPFBA	*40.9*			ng/L	37.8		108	50-200			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310308 - EPA 533											
LCS Dup (B310308-BSD1)					Prepared: 06/13/22 Analyzed: 06/21/22						
Surrogate: M3HFPO-DA	*35.1*			ng/L	37.8		92.8	50-200			
Surrogate: M6PFDA	*41.0*			ng/L	37.8		108	50-200			
Surrogate: M3PFBS	*38.0*			ng/L	35.3		108	50-200			
Surrogate: M7PFUnA	*39.4*			ng/L	37.8		104	50-200			
Surrogate: M2-6:2FTS	*38.8*			ng/L	36.0		108	50-200			
Surrogate: M5PFPeA	*40.8*			ng/L	37.8		108	50-200			
Surrogate: M5PFHxA	*38.6*			ng/L	37.8		102	50-200			
Surrogate: M3PFHxS	*41.0*			ng/L	35.9		114	50-200			
Surrogate: M4PFHpA	*39.5*			ng/L	37.8		104	50-200			
Surrogate: M8PFOA	*39.5*			ng/L	37.8		104	50-200			
Surrogate: M8PFOS	*41.4*			ng/L	36.3		114	50-200			
Surrogate: M9PFNA	*40.8*			ng/L	37.8		108	50-200			
Surrogate: MPFDoA	*40.3*			ng/L	37.8		107	50-200			
Batch B310652 - EPA 533											
Blank (B310652-BLK1)					Prepared: 06/20/22 Analyzed: 06/27/22						
Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	*28.1*			ng/L	34.0		82.6	50-200			
Surrogate: M2-8:2FTS	*31.3*			ng/L	34.8		89.7	50-200			
Surrogate: MPFBA	*36.9*			ng/L	36.3		102	50-200			
Surrogate: M3HFPO-DA	*43.7*			ng/L	36.3		120	50-200			
Surrogate: M6PFDA	*40.3*			ng/L	36.3		111	50-200			
Surrogate: M3PFBS	*34.5*			ng/L	33.8		102	50-200			
Surrogate: M7PFUnA	*36.1*			ng/L	36.3		99.5	50-200			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310652 - EPA 533											
Blank (B310652-BLK1)					Prepared: 06/20/22 Analyzed: 06/27/22						
Surrogate: M2-6:2FTS	*29.2*			ng/L	34.5		84.6	50-200			
Surrogate: M5PFPeA	*38.7*			ng/L	36.3		107	50-200			
Surrogate: M5PFHxA	*38.3*			ng/L	36.3		106	50-200			
Surrogate: M3PFHxS	*38.7*			ng/L	34.4		112	50-200			
Surrogate: M4PFHpA	*39.3*			ng/L	36.3		108	50-200			
Surrogate: M8PFOA	*37.9*			ng/L	36.3		104	50-200			
Surrogate: M8PFOS	*32.6*			ng/L	34.8		93.7	50-200			
Surrogate: M9PFNA	*38.9*			ng/L	36.3		107	50-200			
Surrogate: MPFDoA	*40.9*			ng/L	36.3		113	50-200			
LCS (B310652-BS1)					Prepared: 06/20/22 Analyzed: 06/27/22						
Perfluorobutanoic acid (PFBA)	1.47	1.8		ng/L	1.82		80.7	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.38	1.8		ng/L	1.61		85.9	50-150			
Perfluoropentanoic acid (PFPeA)	1.34	1.8		ng/L	1.82		73.4	50-150			
Perfluorohexanoic acid (PFHxA)	1.42	1.8		ng/L	1.82		77.8	50-150			
11Cl-PF3OUdS (F53B Minor)	1.41	1.8		ng/L	1.72		82.2	50-150			
9Cl-PF3ONS (F53B Major)	1.24	1.8		ng/L	1.70		73.0	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.50	1.8		ng/L	1.72		87.3	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.47	1.8		ng/L	1.82		80.6	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.43	1.8		ng/L	1.75		81.6	50-150			
Perfluorodecanoic acid (PFDA)	1.35	1.8		ng/L	1.82		74.2	50-150			
Perfluorododecanoic acid (PFDoA)	1.43	1.8		ng/L	1.82		78.3	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.37	1.8		ng/L	1.62		84.6	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.88	1.8		ng/L	1.74		108	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.48	1.8		ng/L	1.70		87.2	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.33	1.8		ng/L	1.67		79.9	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.59	1.8		ng/L	1.82		87.5	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.38	1.8		ng/L	1.82		75.9	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.19	1.8		ng/L	1.73		68.8	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.40	1.8		ng/L	1.71		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	1.75	1.8		ng/L	1.82		96.1	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.56	1.8		ng/L	1.82		85.8	50-150			
Perfluoroheptanoic acid (PFHpA)	1.60	1.8		ng/L	1.82		87.9	50-150			
Perfluorooctanoic acid (PFOA)	1.49	1.8		ng/L	1.82		81.8	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.72	1.8		ng/L	1.68		102	50-150			
Perfluorononanoic acid (PFNA)	1.48	1.8		ng/L	1.82		81.5	50-150			
Surrogate: M2-4:2FTS	*25.2*			ng/L	34.2		73.7	50-200			
Surrogate: M2-8:2FTS	*33.5*			ng/L	35.0		95.7	50-200			
Surrogate: MPFBA	*36.8*			ng/L	36.4		101	50-200			
Surrogate: M3HFPO-DA	*38.3*			ng/L	36.4		105	50-200			
Surrogate: M6PFDA	*38.4*			ng/L	36.4		105	50-200			
Surrogate: M3PFBS	*34.3*			ng/L	33.9		101	50-200			
Surrogate: M7PFUnA	*36.8*			ng/L	36.4		101	50-200			
Surrogate: M2-6:2FTS	*32.9*			ng/L	34.6		95.0	50-200			
Surrogate: M5PFPeA	*39.5*			ng/L	36.4		108	50-200			
Surrogate: M5PFHxA	*35.6*			ng/L	36.4		97.8	50-200			
Surrogate: M3PFHxS	*34.3*			ng/L	34.5		99.2	50-200			
Surrogate: M4PFHpA	*36.9*			ng/L	36.4		101	50-200			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B310652 - EPA 533											
LCS (B310652-BS1)					Prepared: 06/20/22 Analyzed: 06/27/22						
Surrogate: M8PFOA	*36.7*			ng/L	36.4		101	50-200			
Surrogate: M8PFOS	*33.6*			ng/L	34.9		96.1	50-200			
Surrogate: M9PFNA	*37.2*			ng/L	36.4		102	50-200			
Surrogate: MPFDoA	*41.4*			ng/L	36.4		114	50-200			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
PF-02	Surrogate recovery is outside of control limits. Re-extraction yielded similar surrogate non-conformance. Both results reported.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	VT-DW,ME,NJ,NH-P
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,NJ,NH-P
Perfluoropentanoic acid (PFPeA)	VT-DW,ME,NJ,NH-P
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,NJ,NH-P
11Cl-PF3OUdS (F53B Minor)	VT-DW,ME,NJ,NH-P
9Cl-PF3ONS (F53B Major)	VT-DW,ME,NJ,NH-P
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,ME,NJ,NH-P
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,ME,NJ,NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorodecanoic acid (PFDA)	VT-DW,ME,NJ,NH-P
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,NJ,NH-P
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanesulfonic acid (PFHpS)	VT-DW,ME,NJ,NH-P
4:2 Fluorotelomersulfonic acid (4:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,NJ,NH-P
Perfluoro-4-oxapentanoic acid (PFMPA)	VT-DW,ME,NJ,NH-P
Perfluoro-5-oxahexanoic acid (PFMBA)	VT-DW,ME,NJ,NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluoropetanesulfonic acid (PFPeS)	VT-DW,ME,NJ,NH-P
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,NJ,NH-P
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,NJ,NH-P
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ
Perfluorononanoic acid (PFNA)	VT-DW,ME,NJ,NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

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1800 Elm Street SE
Minneapolis, MN 55414

Page 1 of 4

22F0262

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	NYSDEC / Arcadis
Address:	625 Broadway 12th floor, Albany NY 12233
Phone:	(518) 402-9813
Project Name:	Stewart ANG - Butterhill
Project Location:	New Windsor, NY
Project Number:	30058345
Project Manager:	David Chiusano, NYSDEC
Pace Analytical Quote Name/Number	Callout ID: 141586
Invoice Recipient:	David Chiusano
Sampled By:	Meghan Fitzgerald / Casey Rademski

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: David.Chiusano@dec.ny.gov
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	EPA 533										# of Containers
								36										[2] Preservation Code
								1										[3] Container Code
								P										
1	BH20220602 Pre-GAC	6/2	9:01		✓	DW		3										
2	BH20220602 POST-GAC		9:04		✓	DW		3										
3	BH20220602 POST-GAC DUP		9:05		✓	DW		3										
2	BH20220602 POST-GAC MS/MD		9:08		✓	DW		9										
4	BH20220602-IN-25		9:25		✓	DW		3										
5	BH20220602-IN-50		9:27		✓	DW		3										
6	BH20220602-IN-75		9:29		✓	DW		3										
7	BH20220602-1 midpoint		9:31		✓	DW		3										
8	BH20220602-1S-25		9:36		✓	DW		3										
9	BH20220602-1S-50	↓	9:39		✓	DW		3										

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
Please email results to Dana.Bryant@arcadis.com

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Casey Rademski	Date/Time: 6/2 16:05
Received by: (signature)	esec	Date/Time: 6/2/22 16:05
Relinquished by: (signature)	PACE	Date/Time: 6/3/22 1430
Received by: (signature)	GNOC	Date/Time: 6-3-22/1730
Relinquished by: (signature)	GNOC	Date/Time: 6.3.22 1700
Received by: (signature)		Date/Time: 6/3/22 1500

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☑ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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22F0262

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	NYSDEC/Arcadis
Address:	625 Broadway 12th Floor, Albany NY 12233
Phone:	(518) 402-9813
Project Name:	Stewart ANG-Butterhill
Project Location:	New Windsor, NY
Project Number:	30058345
Project Manager:	David Chiusano, NYSDEC
Pace Analytical Quote Name/Number	callout ID: 1415886
Invoice Recipient:	David Chiusano
Sampled By:	Meghan Fitzgerald/Casey Rudomski

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: DavidChiusano@
Fax To #: DEC.NY.GOV

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	30 T P	EPA 5M												# of Containers
10	BH20220602-1S-75	6/2	9:40		✓	DW			3												
11	BH20220602-1 POST		9:44		✓	DW			3												
12	BH20220602-2N-25		9:47		✓	DW			3												
13	BH20220602-2N-50		9:50		✓	DW			3												
14	BH20220602-2N-75		9:52		✓	DW			3												
15	BH20220602-2MIDPOINT		9:54		✓	DW			3												
16	BH20220602-2S-25		9:58		✓	DW			3												
17	BH20220602-2S-50		9:59		✓	DW			3												
18	BH20220602-2S-75		10:01		✓	DW			3												
19	BH20220602-2[illegible]-POST	↓	10:03		✓	DW			3												

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:
Please email results to Dana.Bryant@arcadis.com

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
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S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Casey Rudomski	Date/Time: 6/2 16:05
Received by: (signature)	PACE	Date/Time: 6/2/22 16:05
Relinquished by: (signature)	PACE	Date/Time: 6/3/22 1430
Received by: (signature)		Date/Time: 6-3-22 1500
Relinquished by: (signature)		Date/Time: 6-3-22 1500
Received by: (signature)	4.0, 4.0	Date/Time: 6/3/22 1500

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
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☐ NY Regs Hits-Only EDD
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NELAC and AIHA-LAP, LLC Accredited

Project Entity
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Other
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22FD2602

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Project Location:	New Windsor, NY
Project Number:	30058345
Project Manager:	David Chiusano, NYSDEC
Pace Analytical Quote Name/Number	Callout ID: 14/586
Invoice Recipient:	David chiusano
Sampled By:	Meghan Fitzgerald / Casey Radomski

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Davidchiusano
Fax To #: DEC.NY.GOV

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	ANALYSIS REQUESTED: MMSIM DW	# of Containers
20	BH20220602-3N-25	6/2	10:09		✓	DW		3	
21	BH20220602-3N-50		10:11		✓	DW		3	
22	BH20220602-3N-75		10:13		✓	DW		3	
23	BH20220602-3MIDPOINT		10:16		✓	DW		3	
24	BH20220602-3S-25		10:22		✓	DW		3	
25	BH20220602-3S-50		10:24		✓	DW		3	
26	BH20220602-3S-75		10:28		✓	DW		3	
27	BH20220602-3POST		10:29		✓	DW		3	
28	BH20220602-1RAW		11:15		✓	DW		3	
29	BH20220602-2RAW	↓	11:04		✓	DW		3	

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
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S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
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ST = Sterile
V = Vial
S = Summa Canister
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O = Other (please define)

Comments:
Please email results to
Dana.Bryant@arcadis.com

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Casey Radomski	Date/Time: 6/2 16:05
Received by: (signature) PACE	Date/Time: 6/2/22 16:05
Relinquished by: (signature) PACE	Date/Time: 6/3/22 1430
Received by: (signature)	Date/Time: 6-3-22 1430
Relinquished by: (signature) PACE	Date/Time: 6-3-22 1500
Received by: (signature)	Date/Time: 6/3/22 1506
	6/3/22 1500

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☑ Enhanced Data Package
☑ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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Pace Analytical®

Phone: 612-607-6400
Fax: 612-607-6344

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

22FD0602

CHAIN OF CUSTODY RECORD (New York)

1800 Elm Street SE
Minneapolis, MN 55414

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name:	NYSDEC/Arcadis
Address:	625 Broadway 12th floor, Albany NY 12233
Phone:	(518) 402-9813
Project Name:	Stewart ANG-Butterhill
Project Location:	New Windsor, NY
Project Number:	30058345
Project Manager:	David Chiusano, NYSPEC
Pace Analytical Quote Name/Number:	Callout ID: 141586
Invoice Recipient:	David Chiusano
Sampled By:	Meghan Fitzgerald / Casey Radcliffe

Requested Turnaround Time
7-Day ☐ 10-Day ☑
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

ANALYSIS REQUESTED

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	VOCs 8260
30	BH20220602-3RAW	6/2	11:33		✓	DW		3	

[2] Preservation Code: I
[3] Container Code: P

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: Please email results to Dana.Bryant@arcadis.com

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	Date/Time
Relinquished by: (signature) Casey Radcliffe	6/2 16:05
Received by: (signature) PACE	6/2/22 16:05
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Received by: (signature)	6/3/22 1430
Relinquished by: (signature) PACE	6/3/22 1500
Received by: (signature) 4J, 4C	6/3/22 1500

Program & Regulatory Information
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PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client NYSDEC/Accutest

Received By _____ Date 6/3/22 Time 1500

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 4.1, 4.6
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/a Were Samples Tampered with? N/a
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? N/a MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? Acid N/a Base N/a

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	99	4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments: