NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau E
625 Broadway, 12th Floor, Albany, NY 12233-7017
P: (518) 402-9813 I F: (518) 402-9819
www.dec.ny.gov

March 15, 2023

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

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

Dear Supervisor George Meyers:

The New York State Department of Environmental Conservation (DEC) is providing you with a copy of analytical results derived from the February 9, 2023 sampling of the granular activated carbon (GAC) water treatment system by DEC representatives that was installed on the Town of New Windsor (Town) Kroll Well located at 354 Mount Airy Road.

No PFOS or PFOA was detected in the Kroll Well GAC-treated water. The NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

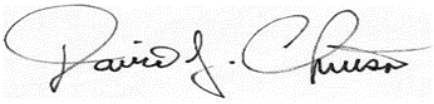
Specifically, the samples were analyzed for a total of twenty-five per- and polyfluoroalkyl substances (PFAS), including Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS). Data received for the 25 PFAS list analysis has been attached. During this event, sampling for the 25 PFAS list was conducted at 9 locations:

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

The 9 locations sampled (and their associated identifiers) are depicted in Figure 1. Please note that the next sampling event will be scheduled around December 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 Meghan Miller, EA Science and Technology (DEC's Project Engineer) at (315) 565-6557 or mmiller@eaest.com . For weekday or off hour / weekend emergency repair issues, please call DEC's contractor, Brian Neumann of Precision Environmental Services at (518) 441-1520 (cell). For questions regarding site-related health concerns, please contact Steve Gagnon of the Orange County DOH at (845) 291-2331 or Steve Gladding of the NYSDOH Bureau of Water Supply Protection at (518) 402-7688.

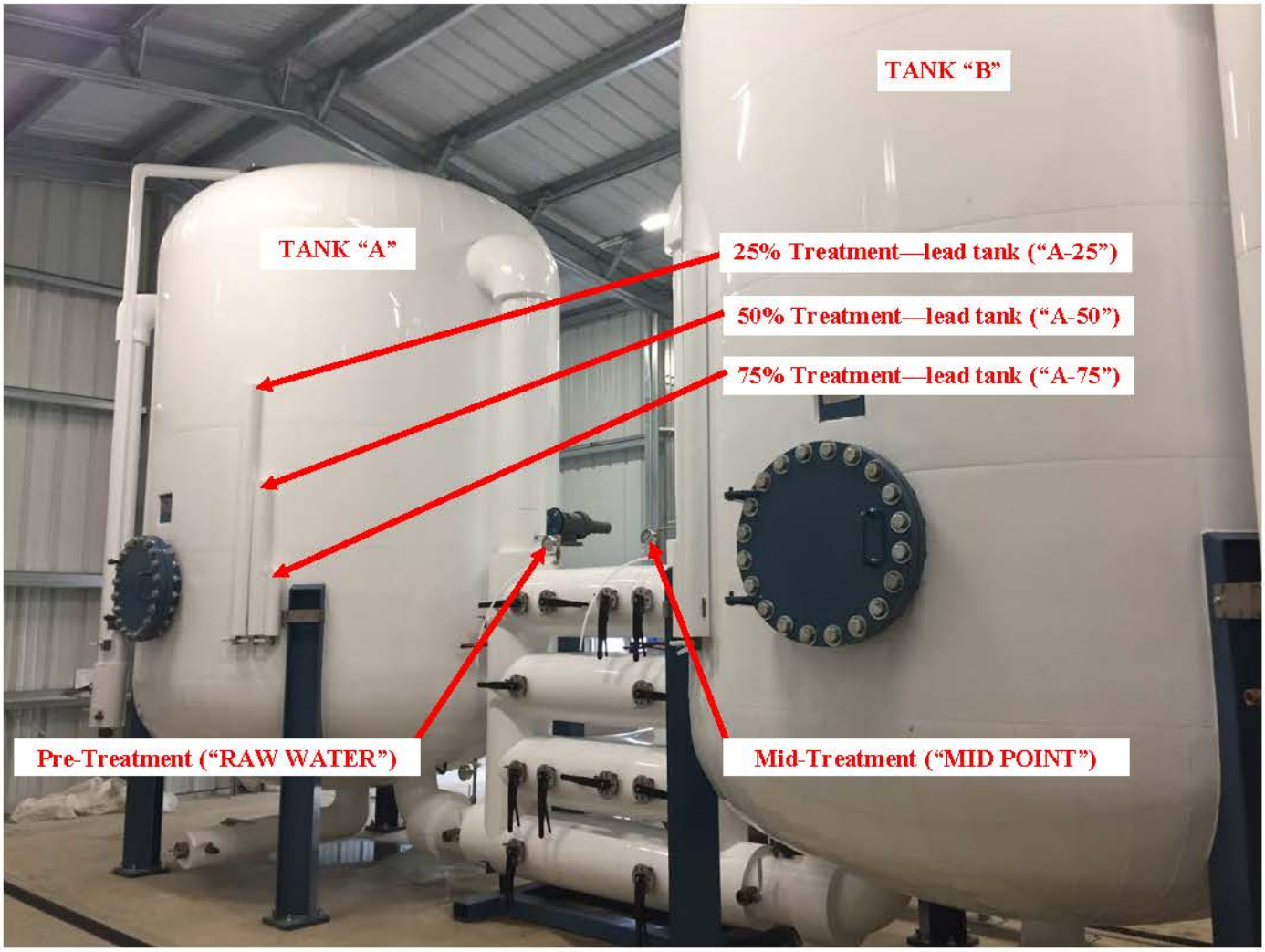
Sincerely,



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. Marina, Town of New Windsor
J. Egitto, Town of New Windsor
K. Rea, Town of New Windsor
J. Conrad, PVE LLC
C. Brown, PVE LLC
M. Weeks, MHE
K. Wheeler, NYSDOH
S. Gagnon, OCDOH
M. Andersen, OCDOH
M. Miller, EA Engineering
B. Neumann, PES
M. Cruden, NYSDEC
B. Rung, NYSDEC
D. Pollack, Region 3 DER



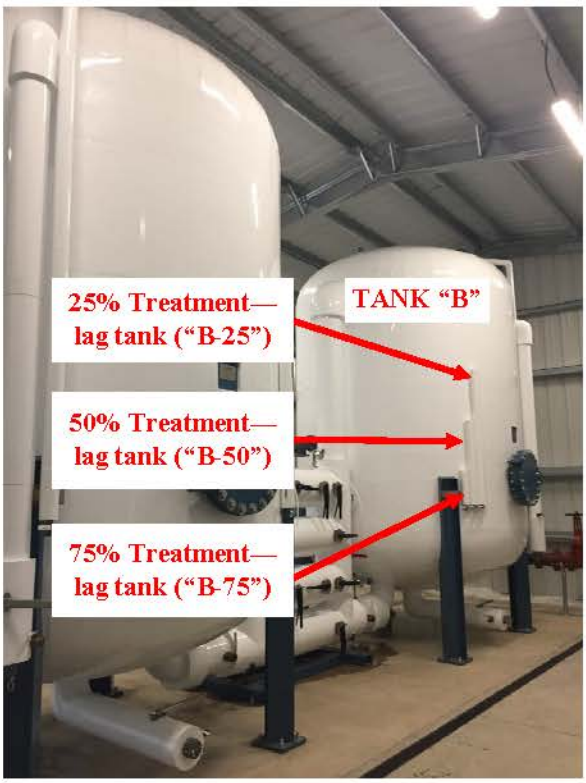


Figure 1—Kroll Well GAC Treatment System Sampling Locations

Town of New Windsor

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

(Last updated: February 2023)

Date	Analyte	Result [1] Raw Water	Result A25	Result[2] A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	Proposed NYS MCLs
September 2019 (Based on 21 PFAS Analysis Data only)	PFOA	8.4	ND	6.1	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	14	ND	7.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
October 2019 (Based on 21 PFAS Analysis Data only)	PFOA	7.9	6.5	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	13	8.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
November 2019 (Based on 21 PFAS Analysis Data only)	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	10	8.4	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
December 2019 (Based on 21 PFAS Analysis Data only)	PFOA	12	10	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
January 2020 (Based on 21 PFAS Analysis Data only)	PFOA	11	10	2.2	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	10	8.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
February 2020 (Based on 21 PFAS Analysis Data only)	PFOA	11	9.9	3.3	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.7	8.4	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]

Notes:

** 21 PFAS List Analysis.

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is currently 70 ppt.
5. The proposed NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

Town of New Windsor

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

(Last updated: February 2023)

Date	Analyte	Result [1] Raw Water	Result A25	Result[2] A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	NYS MCLs
March 2020 (Based on 21 PFAS Analysis Data only)	PFOA	9.3	9.2	4.2	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.6	11	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
April 2020 (Based on 21 PFAS Analysis Data only)	PFOA	8.7	8.4	4.3	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	8.9	7.7	1.9	ND	ND	ND	ND	ND	ND	70[4]	10[5]
May 2020 (Based on 21 PFAS Analysis Data only)	PFOA	ND	7.9	4.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	11.0	7.7	2.0	ND	ND	ND	ND	ND	ND	70[4]	10[5]
August 2020 (Based on 21 PFAS Analysis Data only)	PFOA	9.4	9.2	6.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	11.0	11.0	4.5	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	GAC CHANGE COMPLETED BY NYSDEC IN NOVEMBER 2020											
February 2021 (Based on 21 PFAS Analysis Data only)	PFOA	7.5	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	6.7	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
May 2021 (Based on 21 PFAS Analysis Data only)	PFOA	9.1	5.7	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	7.4	2.6	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]

Notes:

** 21 PFAS List Analysis.

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is 70 ppt.
5. Effective August 2020 the NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

Town of New Windsor

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

(Last updated: February 2023)

Date	Analyte	Result [1] Raw Water	Result A25	Result[2] A50	Result A75	Result Mid-Point	Result B25	Result B50	Result B75	Treated Effluent	USEPA Drinking Water Health Advisory Guidance Value	NYS MCLs
August 2021** (Based on 21 PFAS Analysis Data only)	PFOA	7.0	4.9	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	8.0	4.3	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
November 2021*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	7.6	6.4	3.6	0.72	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.4	6.1	1.8	ND	ND	ND	ND	ND	ND	70[4]	10[5]
March 2022*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	7.6	6.1	4.1	0.92	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	9.5	4.5	1.6	ND	ND	ND	ND	ND	ND	70[4]	10[5]
May 2022*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	7.4	7.9	4.6	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	7.3	3.9	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
August 2022*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	6.1	ND	4.8	2.1	ND	ND	ND	6.6	ND	70[4]	10[5]
	PFOS	7.9	ND	ND	ND	ND	ND	ND	3.1	ND	70[4]	10[5]
	GAC CHANGE COMPLETED BY NYSDEC IN NOVEMBER-DECEMBER 2022											
February 2023*** (Based on 25 PFAS Analysis Data (EPA Method 533))	PFOA	17.0	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]
	PFOS	12.0	ND	ND	ND	ND	ND	ND	ND	ND	70[4]	10[5]

Notes:

** 21 PFAS List Analysis

*** 25 PFAS List Analysis Via USEPA Method 533

1. PFOS and PFOA results and comparison values are reported in parts per trillion (ppt, nanograms per liter, ng/l).
2. "ND" means non-detect. The analyte was not detected in the sample.
3. MCL (Maximum Contaminant Level, mg/l) is the maximum permissible level of a contaminant in water delivered by a public water system.
4. Guidance: USEPA Drinking Water Health Advisory guidance value is 70 ppt.
5. Effective August 2020 the NYS maximum contaminant levels (MCLs) are 10 ppt for PFOS and 10 ppt for PFOA.

How to Read Your Laboratory Reports

PFOA and PFOS Results:

- Analyte is the term used to describe what the laboratory was testing for, in this case PFOS and PFOA.
- Conc. (ng/l) is your result for PFOS and PFOA. In your case, no PFOS and PFOA were detected, thus ND or "non-detect" or <2.0 ng/l was reported. (ng/l = ppt)
- 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).

Inorganic Results:

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

- Sec Goal is the EPA nomenclature for all contaminants that have regulatory levels set based on aesthetics (for example, taste or color). DOH recognizes these EPA secondary goals as primary standards and enforces its drinking water quality program accordingly.
- Date/Time represents the date and time of the analysis at the lab.
- By refers to the technician who ran the test.
- Reference indicates the EPA method used in the test.

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

March 15, 2023

Dave Chiusano
NYDEC_Precision Environmental Services, Inc
831 Rt. 67 Lot 38A
Ballston Spa, NY 12020

Project Location: Mount Airy Rd., New Windsor, NY
Client Job Number:
Project Number: 336089
Laboratory Work Order Number: 23B1419

Enclosed are results of analyses for samples as received by the laboratory on February 10, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kyle A. Murray
Project Manager

Table of Contents

con-test®
A Pace Analytical® Laboratory

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

NYDEC_Precision Environmental Services, Inc
831 Rt. 67 Lot 38A
Ballston Spa, NY 12020
ATTN: Dave Chiusano

REPORT DATE: 3/15/2023

PURCHASE ORDER NUMBER: 141588

PROJECT NUMBER: 336089

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23B1419

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

PROJECT LOCATION: Mount Airy Rd., New Windsor, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Influent	23B1419-01	Drinking Water		EPA 533	
A-25	23B1419-02	Drinking Water		EPA 533	
A-50	23B1419-03	Drinking Water		EPA 533	
A-75	23B1419-04	Drinking Water		EPA 533	
Mid	23B1419-05	Drinking Water		EPA 533	
B-25	23B1419-06	Drinking Water		EPA 533	
B-50	23B1419-07	Drinking Water		EPA 533	
B-75	23B1419-08	Drinking Water		EPA 533	
Effluent	23B1419-09	Drinking Water		EPA 533	
Duplicate	23B1419-10	Drinking Water		EPA 533	

con-test®
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:

L-01

Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

8:2 Fluorotelomersulfonic acid (8:2
B331480-BS1

Perfluoroundecanoic acid (PFUnA)
B331480-BS1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Perfluorooctanoic acid (PFOA)
B331480-MS1

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:

M2-4:2FTS
23B1419-05[Mid], 23B1419-06RE1[B-25], 23B1419-07[B-50], 23B1419-10RE1[Duplicate], B331480-MS1, B331480-MSD1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:

M2-4:2FTS
S084160-CCV2, S084510-CCV1

M2-6:2FTS
S084160-CCV1, S084160-CCV2, S084160-CCV3, S084510-CCV1, S084510-CCV2, S084510-CCV3

M2-8:2FTS
S084160-CCV2, S084510-CCV1, S084510-CCV2

M3HFPO-DA
B331480-MS1

M4PFHpA
B331480-MS1

M5PFHxA
B331480-MS1

M5PFPeA
B331480-MS1

M6PFDA
B331480-MS1

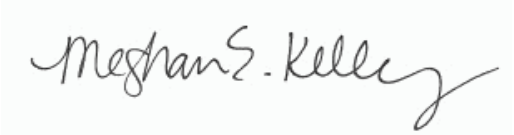
M8PFOA
B331480-MS1

M9PFNA
B331480-MS1

MPFBA
B331480-MS1

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

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.



Meghan E. Kelley
Reporting Specialist

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: Influent Sampled: 2/9/2023 12:25

Sample ID: 23B1419-01

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)	6.3	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorobutanesulfonic acid (PFBS)	9.1	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoropentanoic acid (PFPeA)	8.0	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorohexanoic acid (PFHxA)	7.0	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorohexanesulfonic acid (PFHxS)	2.2	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluoroheptanoic acid (PFHpA)	4.5	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorooctanoic acid (PFOA)	17	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorooctanesulfonic acid (PFOS)	12	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	2/15/23	3/2/23 20:17	RRB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	73.8	50-200		3/2/23 20:17
M2-8:2FTS	90.0	50-200		3/2/23 20:17
MPFBA	107	50-200		3/2/23 20:17
M3HFPO-DA	142	50-200		3/2/23 20:17
M6PFDA	115	50-200		3/2/23 20:17
M3PFBS	120	50-200		3/2/23 20:17
M7PFUnA	109	50-200		3/2/23 20:17
M2-6:2FTS	79.3	50-200		3/2/23 20:17
M5PFPeA	115	50-200		3/2/23 20:17
M5PFHxA	114	50-200		3/2/23 20:17
M3PFHxS	103	50-200		3/2/23 20:17
M4PFHpA	110	50-200		3/2/23 20:17
M8PFOA	102	50-200		3/2/23 20:17
M8PFOS	112	50-200		3/2/23 20:17
M9PFNA	112	50-200		3/2/23 20:17
MPFDoA	100	50-200		3/2/23 20:17

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: A-25 Sampled: 2/9/2023 12:20

Sample ID: 23B1419-02

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)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 533	3/8/23	3/12/23 14:30	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	54.9	50-200		3/12/23 14:30
M2-8:2FTS	76.2	50-200		3/12/23 14:30
MPFBA	117	50-200		3/12/23 14:30
M3HFPO-DA	155	50-200		3/12/23 14:30
M6PFDA	113	50-200		3/12/23 14:30
M3PFBS	120	50-200		3/12/23 14:30
M7PFUnA	112	50-200		3/12/23 14:30
M2-6:2FTS	64.2	50-200		3/12/23 14:30
M5PFPeA	117	50-200		3/12/23 14:30
M5PFHxA	116	50-200		3/12/23 14:30
M3PFHxS	120	50-200		3/12/23 14:30
M4PFHpA	114	50-200		3/12/23 14:30
M8PFOA	113	50-200		3/12/23 14:30
M8PFOS	122	50-200		3/12/23 14:30
M9PFNA	118	50-200		3/12/23 14:30
MPFDoA	104	50-200		3/12/23 14:30

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: A-50 Sampled: 2/9/2023 12:15

Sample ID: 23B1419-03

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)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 20:46	RRB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	56.3	50-200		3/2/23 20:46
M2-8:2FTS	91.8	50-200		3/2/23 20:46
MPFBA	79.7	50-200		3/2/23 20:46
M3HFPO-DA	116	50-200		3/2/23 20:46
M6PFDA	96.1	50-200		3/2/23 20:46
M3PFBS	115	50-200		3/2/23 20:46
M7PFUnA	90.1	50-200		3/2/23 20:46
M2-6:2FTS	61.3	50-200		3/2/23 20:46
M5PFPeA	80.2	50-200		3/2/23 20:46
M5PFHxA	88.8	50-200		3/2/23 20:46
M3PFHxS	106	50-200		3/2/23 20:46
M4PFHpA	82.0	50-200		3/2/23 20:46
M8PFOA	85.2	50-200		3/2/23 20:46
M8PFOS	106	50-200		3/2/23 20:46
M9PFNA	88.2	50-200		3/2/23 20:46
MPFDoA	95.1	50-200		3/2/23 20:46

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: A-75 Sampled: 2/9/2023 12:10

Sample ID: 23B1419-04

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)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoropentanoic acid (PFPeA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	3/8/23	3/12/23 14:38	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	56.9	50-200		3/12/23 14:38
M2-8:2FTS	86.8	50-200		3/12/23 14:38
MPFBA	116	50-200		3/12/23 14:38
M3HFPO-DA	151	50-200		3/12/23 14:38
M6PFDA	116	50-200		3/12/23 14:38
M3PFBS	125	50-200		3/12/23 14:38
M7PFUnA	112	50-200		3/12/23 14:38
M2-6:2FTS	77.2	50-200		3/12/23 14:38
M5PFPeA	115	50-200		3/12/23 14:38
M5PFHxA	117	50-200		3/12/23 14:38
M3PFHxS	121	50-200		3/12/23 14:38
M4PFHpA	114	50-200		3/12/23 14:38
M8PFOA	116	50-200		3/12/23 14:38
M8PFOS	119	50-200		3/12/23 14:38
M9PFNA	116	50-200		3/12/23 14:38
MPFDoA	109	50-200		3/12/23 14:38

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: Mid Sampled: 2/9/2023 12:05

Sample ID: 23B1419-05

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)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:01	RRB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	**47.1**	*	50-200	PF-18	3/2/23 21:01
M2-8:2FTS	77.1		50-200		3/2/23 21:01
MPFBA	73.1		50-200		3/2/23 21:01
M3HFPO-DA	112		50-200		3/2/23 21:01
M6PFDA	106		50-200		3/2/23 21:01
M3PFBS	121		50-200		3/2/23 21:01
M7PFUnA	96.1		50-200		3/2/23 21:01
M2-6:2FTS	59.5		50-200		3/2/23 21:01
M5PFPeA	72.6		50-200		3/2/23 21:01
M5PFHxA	83.8		50-200		3/2/23 21:01
M3PFHxS	110		50-200		3/2/23 21:01
M4PFHpA	81.2		50-200		3/2/23 21:01
M8PFOA	83.9		50-200		3/2/23 21:01
M8PFOS	105		50-200		3/2/23 21:01
M9PFNA	95.8		50-200		3/2/23 21:01
MPFDoA	101		50-200		3/2/23 21:01

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: B-25 Sampled: 2/9/2023 12:00

Sample ID: 23B1419-06

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)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:45	DRL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	**49.7**	*	50-200	PF-18	3/12/23 14:45
M2-8:2FTS	76.4		50-200		3/12/23 14:45
MPFBA	78.7		50-200		3/12/23 14:45
M3HFPO-DA	109		50-200		3/12/23 14:45
M6PFDA	102		50-200		3/12/23 14:45
M3PFBS	113		50-200		3/12/23 14:45
M7PFUnA	112		50-200		3/12/23 14:45
M2-6:2FTS	62.6		50-200		3/12/23 14:45
M5PFPeA	82.0		50-200		3/12/23 14:45
M5PFHxA	88.1		50-200		3/12/23 14:45
M3PFHxS	111		50-200		3/12/23 14:45
M4PFHpA	85.6		50-200		3/12/23 14:45
M8PFOA	80.9		50-200		3/12/23 14:45
M8PFOS	99.3		50-200		3/12/23 14:45
M9PFNA	82.8		50-200		3/12/23 14:45
MPFDoA	103		50-200		3/12/23 14:45

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: B-50 Sampled: 2/9/2023 11:55

Sample ID: 23B1419-07

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)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	2/15/23	3/2/23 21:15	RRB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	**46.6**	*	50-200	PF-18	3/2/23 21:15
M2-8:2FTS	79.8		50-200		3/2/23 21:15
MPFBA	81.1		50-200		3/2/23 21:15
M3HFPO-DA	122		50-200		3/2/23 21:15
M6PFDA	104		50-200		3/2/23 21:15
M3PFBS	125		50-200		3/2/23 21:15
M7PFUnA	89.1		50-200		3/2/23 21:15
M2-6:2FTS	61.6		50-200		3/2/23 21:15
M5PFPeA	85.2		50-200		3/2/23 21:15
M5PFHxA	98.5		50-200		3/2/23 21:15
M3PFHxS	112		50-200		3/2/23 21:15
M4PFHpA	93.2		50-200		3/2/23 21:15
M8PFOA	92.4		50-200		3/2/23 21:15
M8PFOS	105		50-200		3/2/23 21:15
M9PFNA	96.5		50-200		3/2/23 21:15
MPFDoA	88.0		50-200		3/2/23 21:15

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: B-75 Sampled: 2/9/2023 11:50

Sample ID: 23B1419-08

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)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	3/8/23	3/12/23 14:52	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	53.1	50-200		3/12/23 14:52
M2-8:2FTS	73.2	50-200		3/12/23 14:52
MPFBA	115	50-200		3/12/23 14:52
M3HFPO-DA	145	50-200		3/12/23 14:52
M6PFDA	111	50-200		3/12/23 14:52
M3PFBS	109	50-200		3/12/23 14:52
M7PFUnA	103	50-200		3/12/23 14:52
M2-6:2FTS	63.9	50-200		3/12/23 14:52
M5PFPeA	114	50-200		3/12/23 14:52
M5PFHxA	119	50-200		3/12/23 14:52
M3PFHxS	111	50-200		3/12/23 14:52
M4PFHpA	111	50-200		3/12/23 14:52
M8PFOA	115	50-200		3/12/23 14:52
M8PFOS	98.5	50-200		3/12/23 14:52
M9PFNA	110	50-200		3/12/23 14:52
MPFDoA	99.6	50-200		3/12/23 14:52

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: Effluent Sampled: 2/9/2023 11:45

Sample ID: 23B1419-09

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)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 14:59	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	52.9	50-200		3/12/23 14:59
M2-8:2FTS	64.8	50-200		3/12/23 14:59
MPFBA	113	50-200		3/12/23 14:59
M3HFPO-DA	145	50-200		3/12/23 14:59
M6PFDA	110	50-200		3/12/23 14:59
M3PFBS	115	50-200		3/12/23 14:59
M7PFUnA	105	50-200		3/12/23 14:59
M2-6:2FTS	65.5	50-200		3/12/23 14:59
M5PFPeA	111	50-200		3/12/23 14:59
M5PFHxA	118	50-200		3/12/23 14:59
M3PFHxS	116	50-200		3/12/23 14:59
M4PFHpA	115	50-200		3/12/23 14:59
M8PFOA	115	50-200		3/12/23 14:59
M8PFOS	112	50-200		3/12/23 14:59
M9PFNA	119	50-200		3/12/23 14:59
MPFDoA	108	50-200		3/12/23 14:59

con-test®
A Pace Analytical® Laboratory

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

Project Location: Mount Airy Rd., New Windsor, N Sample Description: Work Order: 23B1419

Date Received: 2/10/2023

Field Sample #: Duplicate Sampled: 2/9/2023 00:00

Sample ID: 23B1419-10

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)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
8:2 Fluorotelomersulfonic acid (8:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
4:2 Fluorotelomersulfonic acid (4:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
6:2 Fluorotelomersulfonic acid (6:2FTSA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	3/8/23	3/12/23 15:07	DRL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
M2-4:2FTS	**45.4**	*	50-200	PF-18	3/12/23 15:07
M2-8:2FTS	57.7		50-200		3/12/23 15:07
MPFBA	97.4		50-200		3/12/23 15:07
M3HFPO-DA	103		50-200		3/12/23 15:07
M6PFDA	94.5		50-200		3/12/23 15:07
M3PFBS	103		50-200		3/12/23 15:07
M7PFUnA	93.7		50-200		3/12/23 15:07
M2-6:2FTS	52.5		50-200		3/12/23 15:07
M5PFPeA	96.1		50-200		3/12/23 15:07
M5PFHxA	98.8		50-200		3/12/23 15:07
M3PFHxS	102		50-200		3/12/23 15:07
M4PFHpA	93.8		50-200		3/12/23 15:07
M8PFOA	96.8		50-200		3/12/23 15:07
M8PFOS	99.5		50-200		3/12/23 15:07
M9PFNA	97.5		50-200		3/12/23 15:07
MPFDoA	86.2		50-200		3/12/23 15:07

con-test®
A Pace Analytical® Laboratory

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

Sample Extraction Data

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23B1419-01 [Influent]	B331480	263	1.00	02/15/23
23B1419-03 [A-50]	B331480	283	1.00	02/15/23
23B1419-05 [Mid]	B331480	278	1.00	02/15/23
23B1419-07 [B-50]	B331480	274	1.00	02/15/23

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23B1419-02RE1 [A-25]	B333034	255	1.00	03/08/23
23B1419-04RE1 [A-75]	B333034	286	1.00	03/08/23
23B1419-06RE1 [B-25]	B333034	268	1.00	03/08/23
23B1419-08RE1 [B-75]	B333034	275	1.00	03/08/23
23B1419-09RE1 [Effluent]	B333034	270	1.00	03/08/23
23B1419-10RE1 [Duplicate]	B333034	266	1.00	03/08/23

con-test®
A Pace Analytical® Laboratory

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 B331480 - EPA 533											
Blank (B331480-BLK1)					Prepared: 02/15/23 Analyzed: 03/02/23						
Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.9		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	1.9		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L							
Surrogate: M2-4:2FTS	*7010*			ng/L	9380		74.7	50-200			
Surrogate: M2-8:2FTS	*9710*			ng/L	9600		101	50-200			
Surrogate: MPFBA	*9740*			ng/L	10000		97.4	50-200			
Surrogate: M3HFPO-DA	*46.7*			ng/L	37.6		124	50-200			
Surrogate: M6PFDA	*9460*			ng/L	10000		94.6	50-200			
Surrogate: M3PFBS	*10400*			ng/L	9320		112	50-200			
Surrogate: M7PFUnA	*9360*			ng/L	10000		93.6	50-200			
Surrogate: M2-6:2FTS	*7240*			ng/L	9510		76.1	50-200			
Surrogate: M5PFPeA	*9480*			ng/L	10000		94.8	50-200			
Surrogate: M5PFHxA	*9960*			ng/L	10000		99.6	50-200			
Surrogate: M3PFHxS	*9120*			ng/L	9480		96.2	50-200			
Surrogate: M4PFHpA	*9480*			ng/L	10000		94.8	50-200			
Surrogate: M8PFOA	*9050*			ng/L	10000		90.5	50-200			
Surrogate: M8PFOS	*9980*			ng/L	9590		104	50-200			
Surrogate: M9PFNA	*10500*			ng/L	10000		105	50-200			
Surrogate: MPFDoA	*9210*			ng/L	10000		92.1	50-200			
LCS (B331480-BS1)					Prepared: 02/15/23 Analyzed: 03/02/23						
Perfluorobutanoic acid (PFBA)	20.3	2.0		ng/L	19.6		103	70-130			
Perfluorobutanesulfonic acid (PFBS)	21.2	2.0		ng/L	17.3		122	70-130			
Perfluoropentanoic acid (PFPeA)	22.8	2.0		ng/L	19.6		116	70-130			
Perfluorohexanoic acid (PFHxA)	24.0	2.0		ng/L	19.6		123	70-130			
11Cl-PF3OUdS (F53B Major)	20.0	2.0		ng/L	18.5		108	70-130			

con-test®
A Pace Analytical® Laboratory

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 B331480 - EPA 533												
LCS (B331480-BS1)					Prepared: 02/15/23 Analyzed: 03/02/23							
9Cl-PF3ONS (F53B Minor)	18.2	2.0		ng/L	18.3		99.9		70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	17.5	2.0		ng/L	18.5		94.9		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	16.4	2.0		ng/L	19.6		83.5		70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	27.0	2.0		ng/L	18.8		**144**	*	70-130			L-01
Perfluorodecanoic acid (PFDA)	23.1	2.0		ng/L	19.6		118		70-130			
Perfluorododecanoic acid (PFDoA)	23.9	2.0		ng/L	19.6		122		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	20.1	2.0		ng/L	17.4		115		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	21.7	2.0		ng/L	18.7		116		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	22.5	2.0		ng/L	18.3		123		70-130			
Perfluorohexanesulfonic acid (PFHxS)	21.2	2.0		ng/L	17.9		119		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	20.0	2.0		ng/L	19.6		102		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	21.8	2.0		ng/L	19.6		111		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	21.1	2.0		ng/L	18.6		113		70-130			
Perfluoropetanesulfonic acid (PFPeS)	22.3	2.0		ng/L	18.4		121		70-130			
Perfluoroundecanoic acid (PFUnA)	25.8	2.0		ng/L	19.6		**132**	*	70-130			L-01
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	21.8	2.0		ng/L	19.6		111		70-130			
Perfluoroheptanoic acid (PFHpA)	23.3	2.0		ng/L	19.6		119		70-130			
Perfluorooctanoic acid (PFOA)	23.7	2.0		ng/L	19.6		121		70-130			
Perfluorooctanesulfonic acid (PFOS)	20.7	2.0		ng/L	18.1		114		70-130			
Perfluorononanoic acid (PFNA)	20.9	2.0		ng/L	19.6		107		70-130			
Surrogate: M2-4:2FTS	*6830*			ng/L	9380		72.8		50-200			
Surrogate: M2-8:2FTS	*8010*			ng/L	9600		83.4		50-200			
Surrogate: MPFBA	*9990*			ng/L	10000		99.9		50-200			
Surrogate: M3HFPO-DA	*49.2*			ng/L	39.2		126		50-200			
Surrogate: M6PFDA	*10800*			ng/L	10000		108		50-200			
Surrogate: M3PFBS	*9960*			ng/L	9320		107		50-200			
Surrogate: M7PFUnA	*9450*			ng/L	10000		94.5		50-200			
Surrogate: M2-6:2FTS	*7170*			ng/L	9510		75.4		50-200			
Surrogate: M5PFPeA	*9800*			ng/L	10000		98.0		50-200			
Surrogate: M5PFHxA	*10100*			ng/L	10000		101		50-200			
Surrogate: M3PFHxS	*9190*			ng/L	9480		97.0		50-200			
Surrogate: M4PFHpA	*9540*			ng/L	10000		95.4		50-200			
Surrogate: M8PFOA	*9470*			ng/L	10000		94.7		50-200			
Surrogate: M8PFOS	*10700*			ng/L	9590		112		50-200			
Surrogate: M9PFNA	*10000*			ng/L	10000		100		50-200			
Surrogate: MPFDoA	*8960*			ng/L	10000		89.6		50-200			
Matrix Spike (B331480-MS1)		**Source: 23B1419-05**			Prepared: 02/15/23 Analyzed: 03/02/23							
Perfluorobutanoic acid (PFBA)	17.7	1.8		ng/L	17.9	ND	98.5		70-130			
Perfluorobutanesulfonic acid (PFBS)	19.4	1.8		ng/L	15.9	ND	122		70-130			
Perfluoropentanoic acid (PFPeA)	20.8	1.8		ng/L	17.9	ND	116		70-130			
Perfluorohexanoic acid (PFHxA)	21.5	1.8		ng/L	17.9	ND	120		70-130			
11Cl-PF3OUdS (F53B Major)	17.6	1.8		ng/L	16.9	ND	104		70-130			
9Cl-PF3ONS (F53B Minor)	17.8	1.8		ng/L	16.7	ND	106		70-130			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	14.7	1.8		ng/L	16.9	ND	87.3		70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	15.9	1.8		ng/L	17.9	ND	88.5		70-130			

con-test®
A Pace Analytical® Laboratory

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 B331480 - EPA 533												
Matrix Spike (B331480-MS1)		**Source: 23B1419-05**			Prepared: 02/15/23 Analyzed: 03/02/23							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.7	1.8		ng/L	17.2	ND	114		70-130			
Perfluorodecanoic acid (PFDA)	22.8	1.8		ng/L	17.9	ND	127		70-130			
Perfluorododecanoic acid (PFDoA)	22.1	1.8		ng/L	17.9	ND	123		70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	18.5	1.8		ng/L	16.0	ND	116		70-130			
Perfluoroheptanesulfonic acid (PFHpS)	21.5	1.8		ng/L	17.1	ND	126		70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	20.8	1.8		ng/L	16.8	ND	124		70-130			
Perfluorohexanesulfonic acid (PFHxS)	19.3	1.8		ng/L	16.4	ND	118		70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	17.4	1.8		ng/L	17.9	ND	96.8		70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	20.0	1.8		ng/L	17.9	ND	111		70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	20.0	1.8		ng/L	17.0	ND	118		70-130			
Perfluoropetanesulfonic acid (PFPeS)	20.4	1.8		ng/L	16.9	ND	121		70-130			
Perfluoroundecanoic acid (PFUnA)	21.4	1.8		ng/L	17.9	ND	119		70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	17.2	1.8		ng/L	17.9	ND	96.2		70-130			
Perfluoroheptanoic acid (PFHpA)	21.5	1.8		ng/L	17.9	ND	120		70-130			
Perfluorooctanoic acid (PFOA)	24.0	1.8		ng/L	17.9	ND	**134**	*	70-130			MS-22
Perfluorooctanesulfonic acid (PFOS)	21.6	1.8		ng/L	16.6	ND	130		70-130			
Perfluorononanoic acid (PFNA)	21.2	1.8		ng/L	17.9	ND	118		70-130			
Surrogate: M2-4:2FTS	*4350*			ng/L	9380		**46.4**	*	50-200			PF-18
Surrogate: M2-8:2FTS	*7860*			ng/L	9600		81.9		50-200			
Surrogate: MPFBA	*2170*			ng/L	10000		**21.7**	*	50-200			S-29
Surrogate: M3HFPO-DA	*16.6*			ng/L	35.9		**46.4**	*	50-200			S-29
Surrogate: M6PFDA	*4500*			ng/L	10000		**45.0**	*	50-200			S-29
Surrogate: M3PFBS	*9750*			ng/L	9320		105		50-200			
Surrogate: M7PFUnA	*5300*			ng/L	10000		53.0		50-200			
Surrogate: M2-6:2FTS	*5170*			ng/L	9510		54.3		50-200			
Surrogate: M5PFPeA	*2590*			ng/L	10000		**25.9**	*	50-200			S-29
Surrogate: M5PFHxA	*3320*			ng/L	10000		**33.2**	*	50-200			S-29
Surrogate: M3PFHxS	*8950*			ng/L	9480		94.4		50-200			
Surrogate: M4PFHpA	*3250*			ng/L	10000		**32.5**	*	50-200			S-29
Surrogate: M8PFOA	*3210*			ng/L	10000		**32.1**	*	50-200			S-29
Surrogate: M8PFOS	*8800*			ng/L	9590		91.7		50-200			
Surrogate: M9PFNA	*3980*			ng/L	10000		**39.8**	*	50-200			S-29
Surrogate: MPFDoA	*5170*			ng/L	10000		51.7		50-200			
Matrix Spike Dup (B331480-MSD1)		**Source: 23B1419-05**			Prepared: 02/15/23 Analyzed: 03/02/23							
Perfluorobutanoic acid (PFBA)	17.5	1.8		ng/L	17.6	ND	99.4		70-130	0.798	30	
Perfluorobutanesulfonic acid (PFBS)	18.6	1.8		ng/L	15.6	ND	119		70-130	4.12	30	
Perfluoropentanoic acid (PFPeA)	20.1	1.8		ng/L	17.6	ND	114		70-130	3.48	30	
Perfluorohexanoic acid (PFHxA)	21.1	1.8		ng/L	17.6	ND	120		70-130	1.98	30	
11Cl-PF3OUdS (F53B Major)	17.1	1.8		ng/L	16.6	ND	103		70-130	2.39	30	
9Cl-PF3ONS (F53B Minor)	15.9	1.8		ng/L	16.4	ND	96.9		70-130	11.1	30	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	13.7	1.8		ng/L	16.6	ND	82.3		70-130	7.57	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	14.4	1.8		ng/L	17.6	ND	81.8		70-130	9.51	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.9	1.8		ng/L	16.9	ND	117		70-130	0.876	30	
Perfluorodecanoic acid (PFDA)	21.1	1.8		ng/L	17.6	ND	120		70-130	7.83	30	
Perfluorododecanoic acid (PFDoA)	22.0	1.8		ng/L	17.6	ND	125		70-130	0.200	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	17.8	1.8		ng/L	15.7	ND	113		70-130	4.01	30	
Perfluoroheptanesulfonic acid (PFHpS)	19.9	1.8		ng/L	16.8	ND	118		70-130	7.63	30	

con-test®
A Pace Analytical® Laboratory

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 B331480 - EPA 533												
Matrix Spike Dup (B331480-MSD1)	**Source: 23B1419-05**				Prepared: 02/15/23 Analyzed: 03/02/23							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.6	1.8		ng/L	16.5	ND	119		70-130	5.62	30	
Perfluorohexanesulfonic acid (PFHxS)	19.1	1.8		ng/L	16.1	ND	119		70-130	1.20	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	17.2	1.8		ng/L	17.6	ND	97.4		70-130	1.13	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	18.7	1.8		ng/L	17.6	ND	106		70-130	6.35	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	16.7	1.8		ng/L	16.7	ND	99.7		70-130	18.2	30	
Perfluoropetanesulfonic acid (PFPeS)	20.3	1.8		ng/L	16.6	ND	123		70-130	0.432	30	
Perfluoroundecanoic acid (PFUnA)	21.0	1.8		ng/L	17.6	ND	119		70-130	1.99	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	18.3	1.8		ng/L	17.6	ND	104		70-130	5.87	30	
Perfluoroheptanoic acid (PFHpA)	20.4	1.8		ng/L	17.6	ND	116		70-130	5.05	30	
Perfluorooctanoic acid (PFOA)	21.4	1.8		ng/L	17.6	ND	122		70-130	11.3	30	
Perfluorooctanesulfonic acid (PFOS)	20.5	1.8		ng/L	16.3	ND	126		70-130	5.14	30	
Perfluorononanoic acid (PFNA)	19.3	1.8		ng/L	17.6	ND	110		70-130	9.23	30	
Surrogate: M2-4:2FTS	*4450*			ng/L	9380		**47.5**	*	50-200			PF-18
Surrogate: M2-8:2FTS	*7640*			ng/L	9600		79.5		50-200			
Surrogate: MPFBA	*7490*			ng/L	10000		74.9		50-200			
Surrogate: M3HFPO-DA	*34.6*			ng/L	35.2		98.2		50-200			
Surrogate: M6PFDA	*7850*			ng/L	10000		78.5		50-200			
Surrogate: M3PFBS	*10700*			ng/L	9320		115		50-200			
Surrogate: M7PFUnA	*7680*			ng/L	10000		76.8		50-200			
Surrogate: M2-6:2FTS	*5500*			ng/L	9510		57.8		50-200			
Surrogate: M5PFPeA	*7540*			ng/L	10000		75.4		50-200			
Surrogate: M5PFHxA	*8220*			ng/L	10000		82.2		50-200			
Surrogate: M3PFHxS	*9650*			ng/L	9480		102		50-200			
Surrogate: M4PFHpA	*7380*			ng/L	10000		73.8		50-200			
Surrogate: M8PFOA	*6700*			ng/L	10000		67.0		50-200			
Surrogate: M8PFOS	*9940*			ng/L	9590		104		50-200			
Surrogate: M9PFNA	*7220*			ng/L	10000		72.2		50-200			
Surrogate: MPFDoA	*7410*			ng/L	10000		74.1		50-200			
Batch B333034 - EPA 533												
Blank (B333034-BLK1)					Prepared: 03/08/23 Analyzed: 03/12/23							
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 Major)	ND	1.8		ng/L								
9Cl-PF3ONS (F53B Minor)	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								

con-test®
A Pace Analytical® Laboratory

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 B333034 - EPA 533											
Blank (B333034-BLK1)					Prepared: 03/08/23 Analyzed: 03/12/23						
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	*9700*			ng/L	9380		103	50-200			
Surrogate: M2-8:2FTS	*10300*			ng/L	9600		107	50-200			
Surrogate: MPFBA	*14400*			ng/L	10000		144	50-200			
Surrogate: M3HFPO-DA	*52.4*			ng/L	35.7		147	50-200			
Surrogate: M6PFDA	*13600*			ng/L	10000		136	50-200			
Surrogate: M3PFBS	*12800*			ng/L	9320		138	50-200			
Surrogate: M7PFUnA	*13300*			ng/L	10000		133	50-200			
Surrogate: M2-6:2FTS	*10500*			ng/L	9510		110	50-200			
Surrogate: M5PFPeA	*14100*			ng/L	10000		141	50-200			
Surrogate: M5PFHxA	*13800*			ng/L	10000		138	50-200			
Surrogate: M3PFHxS	*12800*			ng/L	9480		135	50-200			
Surrogate: M4PFHpA	*14100*			ng/L	10000		141	50-200			
Surrogate: M8PFOA	*14000*			ng/L	10000		140	50-200			
Surrogate: M8PFOS	*13100*			ng/L	9590		136	50-200			
Surrogate: M9PFNA	*13700*			ng/L	10000		137	50-200			
Surrogate: MPFDoA	*11800*			ng/L	10000		118	50-200			
LCS (B333034-BS1)					Prepared: 03/08/23 Analyzed: 03/12/23						
Perfluorobutanoic acid (PFBA)	1.53	1.9		ng/L	1.91		79.7	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.27	1.9		ng/L	1.69		74.8	50-150			
Perfluoropentanoic acid (PFPeA)	1.34	1.9		ng/L	1.91		70.2	50-150			
Perfluorohexanoic acid (PFHxA)	1.49	1.9		ng/L	1.91		77.9	50-150			
11Cl-PF3OUdS (F53B Major)	1.13	1.9		ng/L	1.80		62.8	50-150			
9Cl-PF3ONS (F53B Minor)	1.41	1.9		ng/L	1.78		79.0	50-150			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.31	1.9		ng/L	1.80		72.7	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.46	1.9		ng/L	1.91		76.3	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.31	1.9		ng/L	1.84		71.4	50-150			
Perfluorodecanoic acid (PFDA)	1.47	1.9		ng/L	1.91		76.9	50-150			
Perfluorododecanoic acid (PFDoA)	1.35	1.9		ng/L	1.91		70.4	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.45	1.9		ng/L	1.70		85.1	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.44	1.9		ng/L	1.83		78.8	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.31	1.9		ng/L	1.79		73.2	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.42	1.9		ng/L	1.75		81.1	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.36	1.9		ng/L	1.91		71.3	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.33	1.9		ng/L	1.91		69.3	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.53	1.9		ng/L	1.82		84.1	50-150			
Perfluoropetanesulfonic acid (PFPeS)	1.41	1.9		ng/L	1.80		78.4	50-150			
Perfluoroundecanoic acid (PFUnA)	1.48	1.9		ng/L	1.91		77.5	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.41	1.9		ng/L	1.91		73.4	50-150			
Perfluoroheptanoic acid (PFHpA)	1.63	1.9		ng/L	1.91		85.4	50-150			

con-test®
A Pace Analytical® Laboratory

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 B333034 - EPA 533											
LCS (B333034-BS1)					Prepared: 03/08/23 Analyzed: 03/12/23						
Perfluorooctanoic acid (PFOA)	1.50	1.9		ng/L	1.91		78.5	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.47	1.9		ng/L	1.77		83.0	50-150			
Perfluorononanoic acid (PFNA)	1.70	1.9		ng/L	1.91		89.0	50-150			
Surrogate: M2-4:2FTS	*7960*			ng/L	9380		84.8	50-200			
Surrogate: M2-8:2FTS	*8620*			ng/L	9600		89.8	50-200			
Surrogate: MPFBA	*13400*			ng/L	10000		134	50-200			
Surrogate: M3HFPO-DA	*55.7*			ng/L	38.3		145	50-200			
Surrogate: M6PFDA	*12300*			ng/L	10000		123	50-200			
Surrogate: M3PFBS	*11800*			ng/L	9320		126	50-200			
Surrogate: M7PFUnA	*12300*			ng/L	10000		123	50-200			
Surrogate: M2-6:2FTS	*8640*			ng/L	9510		90.9	50-200			
Surrogate: M5PFPeA	*13200*			ng/L	10000		132	50-200			
Surrogate: M5PFHxA	*13300*			ng/L	10000		133	50-200			
Surrogate: M3PFHxS	*11800*			ng/L	9480		125	50-200			
Surrogate: M4PFHpA	*12900*			ng/L	10000		129	50-200			
Surrogate: M8PFOA	*13300*			ng/L	10000		133	50-200			
Surrogate: M8PFOS	*12000*			ng/L	9590		125	50-200			
Surrogate: M9PFNA	*12600*			ng/L	10000		126	50-200			
Surrogate: MPFDoA	*12900*			ng/L	10000		129	50-200			
LCS Dup (B333034-BSD1)					Prepared: 03/08/23 Analyzed: 03/12/23						
Perfluorobutanoic acid (PFBA)	1.47	1.8		ng/L	1.84		79.8	50-150	3.80	50	
Perfluorobutanesulfonic acid (PFBS)	1.39	1.8		ng/L	1.63		85.2	50-150	9.11	50	
Perfluoropentanoic acid (PFPeA)	1.42	1.8		ng/L	1.84		77.3	50-150	5.66	50	
Perfluorohexanoic acid (PFHxA)	1.56	1.8		ng/L	1.84		84.5	50-150	4.19	50	
11Cl-PF3OUdS (F53B Major)	1.28	1.8		ng/L	1.73		73.5	50-150	11.8	50	
9Cl-PF3ONS (F53B Minor)	1.45	1.8		ng/L	1.72		84.3	50-150	2.48	50	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.38	1.8		ng/L	1.73		79.8	50-150	5.45	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.14	1.8		ng/L	1.84		61.9	50-150	24.8	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.34	1.8		ng/L	1.77		76.1	50-150	2.37	50	
Perfluorodecanoic acid (PFDA)	1.43	1.8		ng/L	1.84		77.6	50-150	3.04	50	
Perfluorododecanoic acid (PFDoA)	1.46	1.8		ng/L	1.84		79.5	50-150	8.24	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.49	1.8		ng/L	1.64		90.9	50-150	2.66	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.63	1.8		ng/L	1.76		92.5	50-150	12.1	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.35	1.8		ng/L	1.72		78.2	50-150	2.73	50	
Perfluorohexanesulfonic acid (PFHxS)	1.33	1.8		ng/L	1.68		79.0	50-150	6.47	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.41	1.8		ng/L	1.84		76.5	50-150	3.13	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.39	1.8		ng/L	1.84		75.8	50-150	4.97	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.59	1.8		ng/L	1.75		91.0	50-150	3.93	50	
Perfluoropetanesulfonic acid (PFPeS)	1.47	1.8		ng/L	1.73		85.2	50-150	4.42	50	
Perfluoroundecanoic acid (PFUnA)	1.42	1.8		ng/L	1.84		77.2	50-150	4.37	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.52	1.8		ng/L	1.84		82.7	50-150	7.91	50	
Perfluoroheptanoic acid (PFHpA)	1.53	1.8		ng/L	1.84		82.9	50-150	6.85	50	
Perfluorooctanoic acid (PFOA)	1.45	1.8		ng/L	1.84		78.8	50-150	3.62	50	
Perfluorooctanesulfonic acid (PFOS)	1.45	1.8		ng/L	1.70		85.4	50-150	1.03	50	
Perfluorononanoic acid (PFNA)	1.57	1.8		ng/L	1.84		85.5	50-150	7.90	50	
Surrogate: M2-4:2FTS	*8050*			ng/L	9380		85.8	50-200			
Surrogate: M2-8:2FTS	*8510*			ng/L	9600		88.6	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 B333034 - EPA 533											
LCS Dup (B333034-BSD1)					Prepared: 03/08/23 Analyzed: 03/12/23						
Surrogate: MPFBA	*12800*			ng/L	10000		128	50-200			
Surrogate: M3HFPO-DA	*58.4*			ng/L	36.8		159	50-200			
Surrogate: M6PFDA	*12900*			ng/L	10000		129	50-200			
Surrogate: M3PFBS	*11000*			ng/L	9320		118	50-200			
Surrogate: M7PFUnA	*12000*			ng/L	10000		120	50-200			
Surrogate: M2-6:2FTS	*9160*			ng/L	9510		96.4	50-200			
Surrogate: M5PFPeA	*12800*			ng/L	10000		128	50-200			
Surrogate: M5PFHxA	*12300*			ng/L	10000		123	50-200			
Surrogate: M3PFHxS	*11300*			ng/L	9480		119	50-200			
Surrogate: M4PFHpA	*12700*			ng/L	10000		127	50-200			
Surrogate: M8PFOA	*12400*			ng/L	10000		124	50-200			
Surrogate: M8PFOS	*10600*			ng/L	9590		111	50-200			
Surrogate: M9PFNA	*12600*			ng/L	10000		126	50-200			
Surrogate: MPFDoA	*12100*			ng/L	10000		121	50-200			

con-test®
A Pace Analytical® Laboratory

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

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.
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
S-29	Extracted Internal Standard is outside of control limits.

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

23B1419 RJM

ALL SHADED AREAS are for LAB USE ONLY

Company: Precision Environmental Services	Billing Information: NYSDEC Site No. 336089
Address: 831 Rt 67, Ballston Spa, NY 12020	
Report To: NYSDEC, David Chiusano	Email To: Chiusano and Neumann
Copy To: Brian Neumann	Site Collection Info/Address: Mt Airy Rd, New Windsor, NY
Customer Project Name/Number: SANG Base, Kroll Well	State: NY County/City: [redacted] Time Zone Collected: East

Container Preservative Type **: O

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, **(O) Other ammonium acetate**

Phone: 518-885-4399 Email: bneumann@pesnyinc.com	Site/Facility ID #: Spill No. 336089	Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Pat Sokolowski	Purchase Order # : Quote #:	DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard	Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses: PFAS Method 533

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA	
Custody Signatures Present	Y	N	NA	
Collector Signature Present	Y	N	NA	
Bottles Intact	Y	N	NA	
Correct Bottles	Y	N	NA	
Sufficient Volume	Y	N	NA	
Samples Received on Ice	Y	N	NA	
VOA - Headspace Acceptable	Y	N	NA	
USDA Regulated Soils	Y	N	NA	
Samples in Holding Time	Y	N	NA	
Residual Chlorine Present	Y	N	NA	
Cl Strips: _____				
Sample pH Acceptable	Y	N	NA	
pH Strips: _____				
Sulfide Present	Y	N	NA	
Lead Acetate Strips: _____				

LAB USE ONLY:
Lab Sample # / Comments:

	Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	PFAS Method 533
1	Influent	DW	G	2-9-23	1225				2	X
2	A-25				1220					
3	A-50				1215					
4	A-75				1210				↓	
5	Mid				1205				6	
6	B-25				1200				2	
7	B-50				1155					
8	B-75				1150					
9	Effluent				1145					
10	Duplicate	↓	↓	↓	—				↓	↓

Customer Remarks / Special Conditions / Possible Hazards:
* Perform MS/MSD on Mid sample
* CAT B Deliverables

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via:
FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: ___oC
Cooler 1 Therm Corr. Factor: ___oC
Cooler 1 Corrected Temp: ___oC
Comments:

Relinquished by/Company: (Signature) PES	Date/Time: 2-9-23 1456	Received by/Company: (Signature) T. Kuni PACE
Relinquished by/Company: (Signature) T. Kuni PACE	Date/Time: 2-10-23 1430	Received by/Company: (Signature) PACE
Relinquished by/Company: (Signature) Dan Boehm PACE 2-10-23 1635	Date/Time: 2-10-23 1520	Received by/Company: (Signature) Dan Boehm 2-10-23 1520

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Date/Time: 2-9-23 1456
Date/Time: 2-10-23 1436
Date/Time: 2-10-23 1520

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F:413-525-6405
www.pacelabs.com

Table of Contents

Log In Back-Sheet

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

Pace
PEOPLE ADVANCING SCIENCE

Client PES (DEC)

Project Spill # 336089 (Kroll)

MCP/RCP Required no

Deliverable Package Req. none

Location Mount Airy Rd, New Windsor NY

PWSID# (When Applicable) n/a

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time CH 2/10/23 1635

Back-Sheet By / Date / Time MCM 2/13/23 1935

Temperature Method Gun # 3

Temp ☑ < 6° C Actual Temperature 58

Rush Samples: Yes / No Notify No

Short Hold: Yes / No Notify No

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☐	☑
Trip Blanks	☐	☑
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☑ Sampler Name ☑
Project ☑ IDs ☑ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Container (Circle when applicable)	UnP	HCl	HNO3	H2SO4	NaOH	Trizma	NaS2O3	Other Preservative
1L Amber Plastic								
500 mL Amber Plastic								
250 mL Amber (Plastic)								24 (ammonia acetate)
Other Amber Clear Plastic								
16oz Amber Clear								
8oz Amber Clear								
4oz Amber Clear								
2oz Amber Clear								
Col/Bacteria								
Flashpoint								
Plastic Bag								
SOC Kit								
Perchlorate								
Encore								
Frozen								

	Proper Headspace	UnP	HCl	MeOH	Bisulfate	DI	Thiosulfate	Sulfuric	Other
Vials									