



ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Merrimack Village District
2 Greens Pond Road
Merrimack NH 03054

Report Date: October 01, 2019 15:48

Project: PFC Investigation

Account #: 38083
Group Number: 2061969
PO Number: 1531010
State of Sample Origin: NH

Electronic Copy To Merrimack Village District

Attn: Jill Lavoie

Respectfully Submitted,



Mary Kate Izzo
Project Manager

(717) 556-4656

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/> . Historical copies may be requested through your project manager.



SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
1531010_008 Grab Water	08/29/2019 10:25	1141761
1531010_003 Grab Water	08/29/2019 10:44	1141762
1531010_007 Grab Water	08/29/2019 10:58	1141763
1531010_009 Grab Water	08/29/2019 11:05	1141764
1531010_508 Grab Water	08/29/2019 11:10	1141765

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: 1531010_008 Grab Water
MVD-2(T)

Merrimack Village District
ELLE Sample #: PW 1141761
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submission Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 10:25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid ¹	120226-60-0	N.D.	0.86	4.3	1
14473	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.86	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14473	NEtPFOSA ¹	4151-50-2	N.D.	0.86	4.3	1
	NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide					
14473	NEtPFOSAE ¹	1691-99-2	N.D.	0.86	2.6	1
	NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol					
14473	NMeFOSAA	2355-31-9	N.D.	0.52	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14473	NMePFOSA ¹	31506-32-8	N.D.	0.86	2.6	1
	NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide					
14473	NMePFOSAE ¹	24448-09-7	N.D.	0.86	2.6	1
	NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol					
14473	Perfluorobutanesulfonic acid	375-73-5	3.6	0.43	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	5.4	1.7	4.3	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	5.2	0.43	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.86	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.3 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	7.4	0.43	1.7	1
14473	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	0.46 J	0.43	1.7	1
14473	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.86	2.6	1
14473	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	2.1	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	23	0.43	1.7	1
14473	Perfluoropentanesulfonate ¹	2706-91-4	0.48 J	0.43	1.7	1
14473	Perfluoropentanoic acid ¹	2706-90-3	5.8	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_008 Grab Water
MVD-2(T)

Merrimack Village District
ELLE Sample #: PW 1141761
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 10:25

Sample Comments

¹ = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19254013	09/13/2019 15:34	Danielle D McCully	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19254013	09/11/2019 17:00	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_003 Grab Water
MVD-3(R)

Merrimack Village District
ELLE Sample #: PW 1141762
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submission Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 10:44

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	LC/MS/MS Miscellaneous	EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid ¹	120226-60-0	N.D.	0.87	4.3	1
14473	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.87	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14473	NEtPFOSA ¹	4151-50-2	N.D.	0.87	4.3	1
	NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide					
14473	NEtPFOSAE ¹	1691-99-2	N.D.	0.87	2.6	1
	NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol					
14473	NMeFOSAA	2355-31-9	N.D.	0.52	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14473	NMePFOSA ¹	31506-32-8	N.D.	0.87	2.6	1
	NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide					
14473	NMePFOSAE ¹	24448-09-7	N.D.	0.87	2.6	1
	NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol					
14473	Perfluorobutanesulfonic acid	375-73-5	4.2	0.43	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	4.9	1.7	4.3	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	4.7	0.43	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.87	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	0.67 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	7.6	0.43	1.7	1
14473	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	0.80 J	0.43	1.7	1
14473	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.87	2.6	1
14473	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	2.1	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	19	0.43	1.7	1
14473	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	0.43	1.7	1
14473	Perfluoropentanoic acid ¹	2706-90-3	6.6	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The recovery for labeled compound used as extraction standards is outside of QC acceptance limits as noted on the QC Summary.

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_003 Grab Water
MVD-3(R)

Merrimack Village District
ELLE Sample #: PW 1141762
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 10:44

Sample Comments

¹ = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19254013	09/13/2019 15:43	Danielle D McCully	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19254013	09/11/2019 17:00	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_007 Grab Water
MVD-7(R)

Merrimack Village District
ELLE Sample #: PW 1141763
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submission Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 10:58

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid ¹	120226-60-0	N.D.	0.86	4.3	1
14473	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.86	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA ¹	4151-50-2	N.D.	0.86	4.3	1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide						
14473	NEtPFOSAE ¹	1691-99-2	N.D.	0.86	2.6	1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol						
14473	NMeFOSAA	2355-31-9	N.D.	0.51	1.7	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMePFOSA ¹	31506-32-8	N.D.	0.86	2.6	1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide						
14473	NMePFOSAE ¹	24448-09-7	N.D.	0.86	2.6	1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol						
14473	Perfluorobutanesulfonic acid	375-73-5	1.6 J	0.43	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	2.2 J	1.7	4.3	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	3.0	0.43	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.86	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.5 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	2.7	0.43	1.7	1
14473	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	0.59 J	0.43	1.7	1
14473	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.86	2.6	1
14473	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	2.7	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	21	0.43	1.7	1
14473	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	0.43	1.7	1
14473	Perfluoropentanoic acid ¹	2706-90-3	2.1	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The recovery for the labeled compound used as extraction standards is outside the QC acceptance limits as noted on the QC Summary. The

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_007 Grab Water
MVD-7(R)

Merrimack Village District
ELLE Sample #: PW 1141763
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 10:58

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	following action was taken: The sample was reextracted outside holding time. Both sets of data are reported and included in the data package.					

Sample Comments

¹ = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19254013	09/13/2019 15:52	Danielle D McCully	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19254013	09/11/2019 17:00	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_009 Grab Water
MVD-8(R)

Merrimack Village District
ELLE Sample #: PW 1141764
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submission Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 11:05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid ¹	120226-60-0	N.D.	0.86	4.3	1
14473	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.86	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA ¹	4151-50-2	N.D.	0.86	4.3	1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide						
14473	NEtPFOSAE ¹	1691-99-2	N.D.	0.86	2.6	1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol						
14473	NMeFOSAA	2355-31-9	N.D.	0.51	1.7	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMePFOSA ¹	31506-32-8	N.D.	0.86	2.6	1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide						
14473	NMePFOSAE ¹	24448-09-7	N.D.	0.86	2.6	1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol						
14473	Perfluorobutanesulfonic acid	375-73-5	1.3 J	0.43	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	N.D.	1.7	4.3	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	2.4	0.43	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.86	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.1 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	2.4	0.43	1.7	1
14473	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	0.43 J	0.43	1.7	1
14473	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.86	2.6	1
14473	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	1.6 J	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	18	0.43	1.7	1
14473	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	0.43	1.7	1
14473	Perfluoropentanoic acid ¹	2706-90-3	2.0	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The recovery for the labeled compound used as extraction standards is outside the QC acceptance limits as noted on the QC Summary. The

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_009 Grab Water
MVD-8(R)

Merrimack Village District
ELLE Sample #: PW 1141764
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 11:05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	following action was taken: The sample was reextracted outside holding time. Both sets of data are reported and included in the data package.					

Sample Comments

¹ = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19254013	09/13/2019 16:01	Danielle D McCully	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19254013	09/11/2019 17:00	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_508 Grab Water
MVD-TP

Merrimack Village District
ELLE Sample #: PW 1141765
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 11:10

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous		EPA 537 Version 1.1 Modified	ng/l	ng/l	ng/l	
14473	10:2Fluorotelomersulfonic acid ¹	120226-60-0	N.D.	0.86	4.3	1
14473	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.43	1.7	1
14473	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.7	4.3	1
14473	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.86	2.6	1
14473	NEtFOSAA	2991-50-6	N.D.	0.43	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA ¹	4151-50-2	N.D.	0.86	4.3	1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide						
14473	NEtPFOSAE ¹	1691-99-2	N.D.	0.86	2.6	1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol						
14473	NMeFOSAA	2355-31-9	N.D.	0.51	1.7	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMePFOSA ¹	31506-32-8	N.D.	0.86	2.6	1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide						
14473	NMePFOSAE ¹	24448-09-7	N.D.	0.86	2.6	1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol						
14473	Perfluorobutanesulfonic acid	375-73-5	1.5 J	0.43	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	1.8 J	1.7	4.3	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14473	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.43	2.6	1
14473	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14473	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.43	1.7	1
14473	Perfluoroheptanoic acid	375-85-9	2.8	0.43	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.86	2.6	1
14473	Perfluorohexanesulfonic acid	355-46-4	1.2 J	0.43	1.7	1
14473	Perfluorohexanoic acid	307-24-4	2.6	0.43	1.7	1
14473	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.43	1.7	1
14473	Perfluorononanoic acid	375-95-1	0.53 J	0.43	1.7	1
14473	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.86	2.6	1
14473	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.43	1.7	1
14473	Perfluorooctanesulfonic acid	1763-23-1	2.3	0.43	1.7	1
14473	Perfluorooctanoic acid	335-67-1	20	0.43	1.7	1
14473	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	0.43	1.7	1
14473	Perfluoropentanoic acid ¹	2706-90-3	1.9	0.43	1.7	1
14473	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

The recovery for labeled compound used as extraction standards is outside of QC acceptance limits as noted on the QC Summary.

*=This limit was used in the evaluation of the final result

Sample Description: 1531010_508 Grab Water
MVD-TP

Merrimack Village District
ELLE Sample #: PW 1141765
ELLE Group #: 2061969
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 08/30/2019 10:20
Collection Date/Time: 08/29/2019 11:10

Sample Comments

¹ = This analyte was not on the laboratory's NH ELAP Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14473	32 PFAS	EPA 537 Version 1.1 Modified	1	19254013	09/13/2019 16:10	Danielle D McCully	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19254013	09/11/2019 17:00	Anthony C Polaski	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: Merrimack Village District
Reported: 10/01/2019 15:48

Group Number: 2061969

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result	MDL**	LOQ
	ng/l	ng/l	ng/l
Batch number: 19254013	Sample number(s): 1141761-1141765		
10:2-Fluorotelomersulfonic acid	N.D.	1.0	5.0
4:2-Fluorotelomersulfonic acid	N.D.	0.50	2.0
6:2-Fluorotelomersulfonic acid	N.D.	2.0	5.0
8:2-Fluorotelomersulfonic acid	N.D.	1.0	3.0
NEtFOSAA	N.D.	0.50	3.0
NEtPFOSA	N.D.	1.0	5.0
NEtPFOSAE	N.D.	1.0	3.0
NMeFOSAA	N.D.	0.60	2.0
NMePFOSA	N.D.	1.0	3.0
NMePFOSAE	N.D.	1.0	3.0
Perfluorobutanesulfonic acid	N.D.	0.50	2.0
Perfluorobutanoic acid	N.D.	2.0	5.0
Perfluorodecanesulfonic acid	N.D.	0.50	2.0
Perfluorodecanoic acid	N.D.	0.50	2.0
Perfluorododecanesulfonic acid	N.D.	0.50	3.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanesulfonic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexadecanoic acid	N.D.	1.0	3.0
Perfluorohexanesulfonic acid	N.D.	0.50	2.0
Perfluorohexanoic acid	N.D.	0.50	2.0
Perfluorononanesulfonic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluorooctadecanoic acid	N.D.	1.0	3.0
Perfluorooctanesulfonamide	N.D.	0.50	2.0
Perfluorooctanesulfonic acid	N.D.	0.50	2.0
Perfluorooctanoic acid	N.D.	0.50	2.0
Perfluoropentanesulfonate	N.D.	0.50	2.0
Perfluoropentanoic acid	N.D.	0.50	2.0
Perfluorotetradecanoic acid	N.D.	0.50	2.0
Perfluorotridecanoic acid	N.D.	0.50	2.0
Perfluoroundecanoic acid	N.D.	0.50	2.0

LCS/LCSD

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Merrimack Village District
Reported: 10/01/2019 15:48

Group Number: 2061969

LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 19254013	Sample number(s): 1141761-1141765								
10:2Fluorotelomersulfonic acid	15.42	13.91			90		45-143		
4:2-Fluorotelomersulfonic acid	14.94	14.97			100		61-131		
6:2-Fluorotelomersulfonic acid	15.17	15.64			103		56-140		
8:2-Fluorotelomersulfonic acid	15.33	14.16			92		58-143		
NEtFOSAA	5.44	4.36			80		53-140		
NEtPFOSA	5.44	3.79			70		56-136		
NEtPFOSAE	5.44	4.81			88		56-130		
NMeFOSAA	5.44	4.73			87		59-141		
NMePFOSA	5.44	4.89			90		49-134		
NMePFOSAE	5.44	4.47			82		61-133		
Perfluorobutanesulfonic acid	4.81	4.61			96		67-135		
Perfluorobutanoic acid	5.44	5.61			103		63-160		
Perfluorodecanesulfonic acid	5.24	5.00			96		62-135		
Perfluorodecanoic acid	5.44	5.69			105		66-141		
Perfluorododecanesulfonic acid	5.28	3.74			71		57-134		
Perfluorododecanoic acid	5.44	5.56			102		65-143		
Perfluoroheptanesulfonic acid	5.18	5.66			109		67-138		
Perfluoroheptanoic acid	5.44	5.95			109		69-144		
Perfluorohexadecanoic acid	5.44	6.44			118		60-148		
Perfluorohexanesulfonic acid	5.14	5.38			105		63-132		
Perfluorohexanoic acid	5.44	5.46			100		69-139		
Perfluorononanesulfonic acid	5.22	5.13			98		70-137		
Perfluorononanoic acid	5.44	6.09			112		66-144		
Perfluorooctadecanoic acid	5.44	6.32			116		47-159		
Perfluorooctanesulfonamide	5.44	4.81			88		67-126		
Perfluorooctanesulfonic acid	5.20	4.44			85		53-129		
Perfluorooctanoic acid	5.44	5.00			92		67-139		
Perfluoropentanesulfonate	5.10	5.34			105		73-134		
Perfluoropentanoic acid	5.44	5.93			109		73-135		
Perfluorotetradecanoic acid	5.44	6.06			111		69-141		
Perfluorotridecanoic acid	5.44	5.25			97		66-146		
Perfluoroundecanoic acid	5.44	5.79			106		66-140		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Merrimack Village District
Reported: 10/01/2019 15:48

Group Number: 2061969

Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 32 PFAS
Batch number: 19254013

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
1141761	88	106	113	151	88	71
1141762	100	125	140	190*	96	82
1141763	104	131	141	204*	100	86
1141764	95	117	131	178*	90	78
1141765	99	125	147	176*	92	77
Blank	87	83	82	100	89	85
LCS	108	103	102	123	103	100
Limits:	43-130	38-150	23-175	22-169	36-137	35-143
	13C4-PFHpA	13C2-6:2-FTS	13C8-PFOA	13C8-PFOS	13C9-PFNA	13C6-PFDA
1141761	66	105	93	85	83	86
1141762	69	136	98	93	91	96
1141763	75	148	108	104	102	99
1141764	66	132	91	89	86	87
1141765	66	133	98	90	98	95
Blank	88	95	85	83	82	81
LCS	103	125	107	110	104	104
Limits:	33-140	29-182	52-124	52-121	48-130	50-124
	13C2-8:2-FTS	d3-NMeFOSAA	13C7-PFUnDA	d5-NEIFOSAA	13C2-PFDoDA	13C2-PFTeDA
1141761	125	92	78	103	74	63
1141762	138	104	99	127	85	75
1141763	156	108	102	126	78	64
1141764	121	92	76	94	68	64
1141765	148	113	97	114	93	72
Blank	99	94	85	97	74	61
LCS	151	132	112	142	103	81
Limits:	37-169	36-143	44-128	42-149	36-127	21-134
	13C8-PFOSA	d7-NMePFOSAE	d3-NMePFOSA	d9-NEIPFOSAE	d5-NEIPFOSA	
1141761	65	43	12	45	16	
1141762	83	62	18	64	25	
1141763	52	15	6*	18	9*	
1141764	65	25	9*	26	10	
1141765	78	53	18	57	24	
Blank	74	49	26	51	28	
LCS	104	100	49	95	59	

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Merrimack Village District
Reported: 10/01/2019 15:48

Group Number: 2061969

Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 32 PFAS
Batch number: 19254013

Limits:	10-134	10-137	10-107	10-135	10-107
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*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 38083 Group # 2061969 Sample # 1141761-765

Client: <u>Merrimack Village District</u>				Matrix			Analyses Requested										For Lab Use Only																																																								
Project Name#: <u>PFC Investigation</u>				Site ID #:			Preservation and Filtration Codes										SF #: _____																																																								
Project Manager: <u>Jill Lavoie</u>				P.O. #:			32 Compounds PFAS by Isotope Dilution										SCR #: _____																																																								
Sampler: <u>Ronald Miner</u>				PWSID #: <u>1531010</u>																																																																					
Phone #: <u>(603) 424-9241 x103</u>				Quote #:																																																																					
State where samples were collected: <u>NH</u>				For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Sample Identification</th> <th colspan="2">Collection</th> <th rowspan="2">Grab</th> <th rowspan="2">Composite</th> <th rowspan="2">Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/></th> <th rowspan="2">Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/></th> <th rowspan="2">Water <input checked="" type="checkbox"/></th> <th rowspan="2">NPDES <input type="checkbox"/></th> <th rowspan="2">Other:</th> <th rowspan="2">Total # of Containers</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> <tr> <td><u>MVD-2 (T) / 1531010-008</u></td> <td><u>8/29/19</u></td> <td><u>10:25</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>2</u></td> </tr> <tr> <td><u>MVD-3 (R) / 1531010-003</u></td> <td><u>8/29/19</u></td> <td><u>10:44</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>2</u></td> </tr> <tr> <td><u>MVD-7 (R) / 1531010-007</u></td> <td><u>8/29/19</u></td> <td><u>10:58</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>2</u></td> </tr> <tr> <td><u>MVD-8 (R) / 1531010-009</u></td> <td><u>8/29/19</u></td> <td><u>11:05</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>2</u></td> </tr> <tr> <td><u>MVD-TP / 1531010-508</u></td> <td><u>8/29/19</u></td> <td><u>11:10</u></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><u>2</u></td> </tr> </table>				Sample Identification	Collection												Grab	Composite	Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>	Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/>	Water <input checked="" type="checkbox"/>	NPDES <input type="checkbox"/>	Other:	Total # of Containers	Date	Time	<u>MVD-2 (T) / 1531010-008</u>	<u>8/29/19</u>	<u>10:25</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>2</u>	<u>MVD-3 (R) / 1531010-003</u>	<u>8/29/19</u>	<u>10:44</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>2</u>	<u>MVD-7 (R) / 1531010-007</u>	<u>8/29/19</u>	<u>10:58</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>2</u>	<u>MVD-8 (R) / 1531010-009</u>	<u>8/29/19</u>	<u>11:05</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>2</u>	<u>MVD-TP / 1531010-508</u>	<u>8/29/19</u>	<u>11:10</u>
Sample Identification	Collection		Grab		Composite	Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>	Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/>	Water <input checked="" type="checkbox"/>	NPDES <input type="checkbox"/>	Other:	Total # of Containers																																																														
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Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> (Rush TAT is subject to laboratory approval and surcharges.)														Relinquished by: <u>[Signature]</u>		Date: <u>8/29</u>		Time: <u>17:40</u>		Received by:		Date:		Time:																																																	
Date results are needed:														Relinquished by:		Date:		Time:		Received by:		Date:		Time:																																																	
Rush results requested by (please check): E-Mail <input type="checkbox"/> Phone <input type="checkbox"/>														Relinquished by:		Date:		Time:		Received by:		Date:		Time:																																																	
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Data Package Options (please check if required)														Relinquished by:		Date:		Time:		Received by:		Date:		Time:																																																	
Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/>														Relinquished by:		Date:		Time:		Received by:		Date:		Time:																																																	
Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/>														Relinquished by:		Date:		Time:		Received by:		Date:		Time:																																																	
Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/>														Relinquished by:		Date:		Time:		Received by:		Date:		Time:																																																	
NJ DKQP <input type="checkbox"/> NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B														Relinquished by Commercial Carrier:						Temperature upon receipt <u>2.1</u> °C																																																					
EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____														UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other _____																																																											



Client: MERRIMACK CILLAFE DISTRICT

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>08/30/2019 10:20</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>NH</u>		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Nicole Reiff (25 684) at 15:59 on 08/30/2019

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	2.1	DT	Wet	Y	Loose/Bag	N

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.