



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: December 02, 2019 19:02

Project: PFC Investigation

Account #: 38083
Group Number: 2070818
PO Number: 3332
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_007 Grab Water	10/22/2019 11:25	1183118
1531010_009 Grab Water	10/22/2019 11:29	1183119

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

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

Merrimack Village District
ELLE Sample #: PW 1183118
ELLE Group #: 2070818
Matrix: Water

Project Name: PFC Investigation

Submission Date/Time: 10/23/2019 10:30
Collection Date/Time: 10/22/2019 11:25

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Isotope Dilution						
			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 ¹	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 ¹	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 ¹	375-73-5	1.7 J	0.43	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	2.3 J	1.7	4.3	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.43	1.7	1
14473	Perfluorodecanoic acid ¹	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 ¹	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 ¹	375-85-9	3.1	0.43	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.86	2.6	1
14473	Perfluorohexanesulfonic acid ¹	355-46-4	1.3 J	0.43	1.7	1
14473	Perfluorohexanoic acid ¹	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 ¹	375-95-1	0.68 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 ¹	1763-23-1	2.5	0.43	1.7	1
14473	Perfluorooctanoic acid ¹	335-67-1	22	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	2.5	0.43	1.7	1
14473	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.43	1.7	1

The recovery for extraction standard 13C2-4:2-FTS is outside of the QC acceptance limits as noted on the QC Summary.

*=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 1183118
ELLE Group #: 2070818
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 10/23/2019 10:30
Collection Date/Time: 10/22/2019 11:25

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 Isotope Dilution	1	19304001	11/08/2019 16:22	Christine E Dolman	1
14091	PFAS Water Prep	EPA 537 Isotope Dilution	1	19304001	10/31/2019 07:00	Pamela Rothharp	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 1183119
ELLE Group #: 2070818
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 10/23/2019 10:30
Collection Date/Time: 10/22/2019 11:29

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Isotope Dilution						
			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 ¹	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 ¹	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 ¹	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 ¹	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 ¹	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 ¹	375-85-9	2.6	0.43	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.86	2.6	1
14473	Perfluorohexanesulfonic acid ¹	355-46-4	1.0 J	0.43	1.7	1
14473	Perfluorohexanoic acid ¹	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 ¹	375-95-1	N.D.	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 ¹	1763-23-1	1.4 J	0.43	1.7	1
14473	Perfluorooctanoic acid ¹	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	2.1	0.43	1.7	1
14473	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.43	1.7	1
14473	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.43	1.7	1
14473	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.43	1.7	1

The recovery for the sample extraction standard(s) is outside the QC acceptance limits as noted on the QC Summary. The following action was taken:

*=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 1183119
ELLE Group #: 2070818
Matrix: Water

Project Name: PFC Investigation

Submittal Date/Time: 10/23/2019 10:30
Collection Date/Time: 10/22/2019 11:29

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
This sample was re-extracted outside the method holding time and the recovery for the sample extraction standard(s) is again outside the QC acceptance limits. The data reported is from the initial trial of the sample.						

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 Isotope Dilution	1	19304001	11/08/2019 16:32	Christine E Dolman	1
14091	PFAS Water Prep	EPA 537 Isotope Dilution	1	19304001	10/31/2019 07:00	Pamela Rothharpt	1

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

Quality Control Summary

Client Name: Merrimack Village District
Reported: 12/02/2019 19:02

Group Number: 2070818

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: 19304001	Sample number(s): 1183118-1183119		
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: 12/02/2019 19:02

Group Number: 2070818

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: 19304001	Sample number(s): 1183118-1183119								
10:2Fluorotelomersulfonic acid	24.68	24.38			99		45-143		
4:2-Fluorotelomersulfonic acid	23.92	22.31			93		61-131		
6:2-Fluorotelomersulfonic acid	24.28	23.97			99		56-140		
8:2-Fluorotelomersulfonic acid	24.52	23.86			97		58-143		
NEtFOSAA	25.6	24.32			95		53-140		
NEtPFOSA	25.6	26.96			105		56-136		
NEtPFOSAE	25.6	24.51			96		56-130		
NMeFOSAA	25.6	27.62			108		59-141		
NMePFOSA	25.6	24.29			95		49-134		
NMePFOSAE	25.6	24.11			94		61-133		
Perfluorobutanesulfonic acid	22.64	22.06			97		67-135		
Perfluorobutanoic acid	25.6	26.05			102		63-160		
Perfluorodecanesulfonic acid	24.64	25.63			104		62-135		
Perfluorodecanoic acid	25.6	24.9			97		66-141		
Perfluorododecanesulfonic acid	24.8	26.09			105		57-134		
Perfluorododecanoic acid	25.6	24.85			97		65-143		
Perfluoroheptanesulfonic acid	24.36	25.68			105		67-138		
Perfluoroheptanoic acid	25.6	25.49			100		69-144		
Perfluorohexadecanoic acid	25.6	27.23			106		60-148		
Perfluorohexanesulfonic acid	24.2	22.28			92		63-132		
Perfluorohexanoic acid	25.6	25.22			99		69-139		
Perfluorononanesulfonic acid	24.56	25.68			105		70-137		
Perfluorononanoic acid	25.6	26.08			102		66-144		
Perfluorooctadecanoic acid	25.6	25.65			100		47-159		
Perfluorooctanesulfonamide	25.6	23.79			93		67-126		
Perfluorooctanesulfonic acid	24.48	20.3			83		53-129		
Perfluorooctanoic acid	25.6	26.15			102		67-139		
Perfluoropentanesulfonate	24	26.07			109		73-134		
Perfluoropentanoic acid	25.6	27.83			109		73-135		
Perfluorotetradecanoic acid	25.6	23.62			92		69-141		
Perfluorotridecanoic acid	25.6	25			98		66-146		
Perfluoroundecanoic acid	25.6	24.53			96		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: 12/02/2019 19:02

Group Number: 2070818

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: 19304001

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
1183118	103	132	149	182*	98	97
1183119	100	126	140	179*	96	98
Blank	110	107	102	122	111	108
LCS	103	102	94	118	108	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
1183118	101	145	105	98	102	102
1183119	99	137	99	97	99	96
Blank	105	128	113	106	98	105
LCS	99	113	104	103	103	106
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
1183118	132	127	106	129	100	94
1183119	139	105	90	110	86	46
Blank	138	133	109	130	109	106
LCS	122	118	114	131	108	105
Limits:	37-169	36-143	44-128	42-149	36-127	21-134
	13C8-PFOSA	d7-NMePFOSAE	d3-NMePFOSA	d9-NEIPFOSAE	d5-NEIPFOSA	
1183118	78	63	17	59	18	
1183119	18	8*	2*	9*	1*	
Blank	102	80	66	82	62	
LCS	102	39	34	34	24	
Limits:	10-134	10-137	10-107	10-135	10-107	

*- Outside of specification

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

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A#38083

G# 2070818

S# 1183118-19



Drinking Water and Groundwater Bureau

October 14, 2019

Page 1 of 1

GENERAL SYSTEM EVALUATION SAMPLES ONLY ***

Questions: (603) 271-2513

PWS ID: 1531010

Collected By: Ronald Miner

(Print Name)

System Name: MERRIMACK VILLAGE DIST

Signature: _____

I certify that all samples taken are from the site(s) listed below and all information provided on this form to the lab is valid.

PWS Town: MERRIMACK

Phone Number: (603) 424-9241

Sample Type: Treatment Evaluation Other

If sample is chlorinated, please fill in Chlorine Residual (mg/L) column.

Sample Purpose/Comments: _____

Analysis Requested

Sample Site Location	Date & Time Sample Collected	Lab Sample ID	# of Containers	Parameters Requested				Free/Total Chlorine Residual (mg/L)
MVD-7(R)/1531010-007	10/22/19 11:25		2	PFAS	32	Compounds		
MVD-8(R)/1531010-009	10/22/19 11:29		2	PFAS	32	Compounds		

NOTE: Samples collected for NITRATE/NITRITE analysis NEED to be collected prior to chlorination. Check with Lab. CYANIDE samples NEED to be collected prior to chlorination. Check with Lab.

*** Samples that are representative of water being consumed, and indicate the presence of acute contaminants exceeding the MCL, shall be used for compliance purposes.

FOR LAB USE: Temp C (upon receipt): _____ On Ice? Y/N Batch ID (if different than sample ID prefix): _____ List QUALIFIERS (if any): _____

Relinquished by: Ronald Miner 10/22/19 12:20 Received by: _____ Date/Time: _____

Relinquished by: _____ Received at Lab by: Kuntzi ZL Date/Time: 10/23/19 1030

Lab Conducting Analysis: _____ Signature: _____ Lab Accred. ID: _____ Phone: _____

Reporting Lab (if different): _____ Signature: _____ Lab Accred. ID: _____ Phone: _____

NOTE: If acute contaminants are present/exceeded, results must be reported to DES within 24 hours.

Client: MERRIMACK

Group Number(s):

2070818

Delivery and Receipt Information

Delivery Method: Fed Ex Arrival Date: 10/23/2019
 Number of Packages: 1 Number of Projects: 2

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 Julissa Rivera-Santa

Samples Chilled Details

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

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	192099059	1.1	IR	Wet	Y	Bagged	N

Client: MERRIMACK

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Date:	<u>10/23/2019</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>2</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 Julissa Rivera-Santa

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	192099059	1.1	IR	Wet	Y	Bagged	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.



MERRIMACK VILLAGE DISTRICT

PLEASE NOTE: Compliance Sample Results for Wells 2, 3, and Treatment Plant are pending and will be added to this document upon receipt.