



ANALYSIS REPORT

Prepared by:

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

Prepared for:

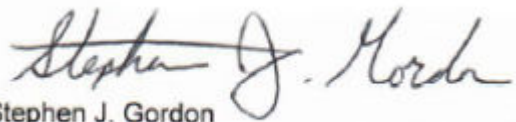
CWM Environmental
11931 State Route 85
Suite B
Kittanning PA 16201

Report Date: May 19, 2020 00:06

Project: WATER

Account #: 20413
Group Number: 2098829
State of Sample Origin: PA

Respectfully Submitted,



Stephen J. Gordon
Project Manager

(724) 597-2027

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>
Raw-201 Grab Water	05/06/2020 09:45	1311187
EP101-201 Grab Water	05/06/2020 10:15	1311188
RAW-173 Grab Water	05/06/2020 09:45	1311189
EP101-173 Grab Water	05/06/2020 10:15	1311190
FB-EP101 Grab Water	05/06/2020 10:15	1311191
FB-RAW Grab Water	05/06/2020 09:45	1311192

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

Sample Description: Raw-201 Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311187
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submission Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 09:45

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	0.45	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.45	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	N.D.	0.45	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.45	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.45	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.45	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.45	1.8	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	0.45	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.45	1.8	1
14070	Perfluorooctanesulfonic acid	1763-23-1	0.74 J	0.45	1.8	1
14070	Perfluorooctanoic acid	335-67-1	0.58 J	0.45	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.45	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.45	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.45	1.8	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 compounds in drinking water	EPA 537 Version 1.1	1	20131002	05/12/2020 14:27	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20131002	05/10/2020 15:00	Eric Hockley	1

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

Sample Description: EP101-201 Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311188
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submittal Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 10:15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	N.D.	0.45	1.8	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	N.D.	0.45	1.8	1
14070	Perfluorobutanesulfonic acid	375-73-5	N.D.	0.45	1.8	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.45	1.8	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.45	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.45	1.8	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.45	1.8	1
14070	Perfluorohexanoic acid	307-24-4	0.46 J	0.45	1.8	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.45	1.8	1
14070	Perfluorooctanesulfonic acid	1763-23-1	0.73 J	0.45	1.8	1
14070	Perfluorooctanoic acid	335-67-1	0.75 J	0.45	1.8	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.45	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.45	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.45	1.8	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 compounds in drinking water	EPA 537 Version 1.1	1	20131002	05/12/2020 14:38	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20131002	05/10/2020 15:00	Eric Hockley	1

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

Sample Description: RAW-173 Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311189
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submission Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 09:45

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. Q1	0.84	4.2	1
14473	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.42	1.7	1
14473	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.7	4.2	1
14473	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.84	2.5	1
14473	NEtFOSAA ¹	2991-50-6	N.D.	0.42	2.5	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA ¹	4151-50-2	N.D.	0.84	4.2	1
NEtPFOSA is the acronym for N-ethylperfluoro-1-octanesulfonamide						
14473	NEtPFOSAE ¹	1691-99-2	N.D.	0.84	2.5	1
NEtPFOSAE is the acronym for 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol						
14473	NMeFOSAA ¹	2355-31-9	N.D.	0.50	1.7	1
NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.						
14473	NMePFOSA ¹	31506-32-8	N.D.	0.84	2.5	1
NMePFOSA is the acronym for N-methylperfluoro-1-octanesulfonamide						
14473	NMePFOSAE ¹	24448-09-7	N.D.	0.84	2.5	1
NMePFOSAE is the acronym for 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol						
14473	Perfluorobutanesulfonic acid ¹	375-73-5	0.47 J	0.42	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	N.D.	1.7	4.2	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.42	1.7	1
14473	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.42	1.7	1
14473	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.42	2.5	1
14473	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.42	1.7	1
14473	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.42	1.7	1
14473	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.42	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.84	2.5	1
14473	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.42	1.7	1
14473	Perfluorohexanoic acid ¹	307-24-4	0.56 J	0.42	1.7	1
14473	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.42	1.7	1
14473	Perfluorononanoic acid ¹	375-95-1	N.D.	0.42	1.7	1
14473	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.84	2.5	1
14473	Perfluorooctanesulfonamide ¹	754-91-6	N.D.	0.42	1.7	1
14473	Perfluorooctanesulfonic acid ¹	1763-23-1	0.80 J	0.42	1.7	1
14473	Perfluorooctanoic acid ¹	335-67-1	0.72 J	0.42	1.7	1
14473	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	0.42	1.7	1
14473	Perfluoropentanoic acid ¹	2706-90-3	0.58 J	0.42	1.7	1
14473	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.42	1.7	1
14473	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.42	1.7	1
14473	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.42	1.7	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

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

Sample Description: RAW-173 Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311189
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submittal Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 09:45

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.					

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

¹ = This analyte was not on the laboratory's PA DEP 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 compounds by EPA 537 mod	EPA 537 Version 1.1 Modified	1	20134015	05/15/2020 16:35	Christine E Dolman	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	2	20134015	05/13/2020 15:00	Eric Hockley	1

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

Sample Description: EP101-173 Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311190
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submission Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 10:15

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. Q1	0.87	4.4	1
14473	4:2-Fluorotelomersulfonic acid ¹	757124-72-4	N.D.	0.44	1.7	1
14473	6:2-Fluorotelomersulfonic acid ¹	27619-97-2	N.D.	1.7	4.4	1
14473	8:2-Fluorotelomersulfonic acid ¹	39108-34-4	N.D.	0.87	2.6	1
14473	NEtFOSAA ¹	2991-50-6	N.D.	0.44	2.6	1
NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.						
14473	NEtPFOSA ¹	4151-50-2	N.D.	0.87	4.4	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 ¹	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 ¹	375-73-5	0.49 J	0.44	1.7	1
14473	Perfluorobutanoic acid ¹	375-22-4	N.D.	1.7	4.4	1
14473	Perfluorodecanesulfonic acid ¹	335-77-3	N.D.	0.44	1.7	1
14473	Perfluorodecanoic acid ¹	335-76-2	N.D.	0.44	1.7	1
14473	Perfluorododecanesulfonic acid ¹	79780-39-5	N.D.	0.44	2.6	1
14473	Perfluorododecanoic acid ¹	307-55-1	N.D.	0.44	1.7	1
14473	Perfluoroheptanesulfonic acid ¹	375-92-8	N.D.	0.44	1.7	1
14473	Perfluoroheptanoic acid ¹	375-85-9	N.D.	0.44	1.7	1
14473	Perfluorohexadecanoic acid ¹	67905-19-5	N.D.	0.87	2.6	1
14473	Perfluorohexanesulfonic acid ¹	355-46-4	N.D.	0.44	1.7	1
14473	Perfluorohexanoic acid ¹	307-24-4	0.58 J	0.44	1.7	1
14473	Perfluorononanesulfonic acid ¹	68259-12-1	N.D.	0.44	1.7	1
14473	Perfluorononanoic acid ¹	375-95-1	N.D.	0.44	1.7	1
14473	Perfluorooctadecanoic acid ¹	16517-11-6	N.D.	0.87	2.6	1
14473	Perfluorooctanesulfonamide ¹	754-91-6	2.5	0.44	1.7	1
14473	Perfluorooctanesulfonic acid ¹	1763-23-1	1.1 J	0.44	1.7	1
14473	Perfluorooctanoic acid ¹	335-67-1	0.99 J	0.44	1.7	1
14473	Perfluoropentanesulfonate ¹	2706-91-4	N.D.	0.44	1.7	1
14473	Perfluoropentanoic acid ¹	2706-90-3	0.51 J	0.44	1.7	1
14473	Perfluorotetradecanoic acid ¹	376-06-7	N.D.	0.44	1.7	1
14473	Perfluorotridecanoic acid ¹	72629-94-8	N.D.	0.44	1.7	1
14473	Perfluoroundecanoic acid ¹	2058-94-8	N.D.	0.44	1.7	1

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

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

Sample Description: EP101-173 Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311190
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submittal Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 10:15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
	Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.					

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

¹ = This analyte was not on the laboratory's PA DEP 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 compounds by EPA 537 mod	EPA 537 Version 1.1 Modified	1	20134015	05/15/2020 16:44	Christine E Dolman	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	2	20134015	05/13/2020 15:00	Eric Hockley	1

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

Sample Description: FB-EP101 Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311191
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submittal Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 10:15

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	N.D.	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.43	1.7	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.43	1.7	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	0.43	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluorooctanesulfonic acid	1763-23-1	N.D.	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	0.43	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 compounds in drinking water	EPA 537 Version 1.1	1	20131002	05/12/2020 14:50	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20131002	05/10/2020 15:00	Eric Hockley	1

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

Sample Description: FB-RAW Grab Water
WATER

CWM Environmental
ELLE Sample #: PW 1311192
ELLE Group #: 2098829
Matrix: Potable Water

Project Name: WATER

Submission Date/Time: 05/07/2020 08:26
Collection Date/Time: 05/06/2020 09:45

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	N.D.	0.43	1.7	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	N.D.	0.43	1.7	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	N.D.	0.43	1.7	1
14070	Perfluorodecanoic acid	335-76-2	N.D.	0.43	1.7	1
14070	Perfluorododecanoic acid	307-55-1	N.D.	0.43	1.7	1
14070	Perfluoroheptanoic acid	375-85-9	N.D.	0.43	1.7	1
14070	Perfluorohexanesulfonic acid	355-46-4	N.D.	0.43	1.7	1
14070	Perfluorohexanoic acid	307-24-4	N.D.	0.43	1.7	1
14070	Perfluorononanoic acid	375-95-1	N.D.	0.43	1.7	1
14070	Perfluorooctanesulfonic acid	1763-23-1	N.D.	0.43	1.7	1
14070	Perfluorooctanoic acid	335-67-1	N.D.	0.43	1.7	1
14070	Perfluorotetradecanoic acid	376-06-7	N.D.	0.43	1.7	1
14070	Perfluorotridecanoic acid	72629-94-8	N.D.	0.43	1.7	1
14070	Perfluoroundecanoic acid	2058-94-8	N.D.	0.43	1.7	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 compounds in drinking water	EPA 537 Version 1.1	1	20133002	05/14/2020 01:49	Archie H Covely	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20133002	05/12/2020 08:15	Katherine Mora	1

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

Quality Control Summary

Client Name: CWM Environmental
Reported: 05/19/2020 00:06

Group Number: 2098829

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: 20131002	Sample number(s): 1311187-1311188,1311191		
NEtFOSAA	N.D.	0.50	2.0
NMeFOSAA	N.D.	0.50	2.0
Perfluorobutanesulfonic acid	N.D.	0.50	2.0
Perfluorodecanoic acid	N.D.	0.50	2.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexanesulfonic acid	N.D.	0.50	2.0
Perfluorohexanoic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluorooctanesulfonic acid	N.D.	0.50	2.0
Perfluorooctanoic 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
Batch number: 20133002	Sample number(s): 1311192		
NEtFOSAA	N.D.	0.50	2.0
NMeFOSAA	N.D.	0.50	2.0
Perfluorobutanesulfonic acid	N.D.	0.50	2.0
Perfluorodecanoic acid	N.D.	0.50	2.0
Perfluorododecanoic acid	N.D.	0.50	2.0
Perfluoroheptanoic acid	N.D.	0.50	2.0
Perfluorohexanesulfonic acid	N.D.	0.50	2.0
Perfluorohexanoic acid	N.D.	0.50	2.0
Perfluorononanoic acid	N.D.	0.50	2.0
Perfluorooctanesulfonic acid	N.D.	0.50	2.0
Perfluorooctanoic 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
Batch number: 20134015	Sample number(s): 1311189-1311190		
10:2Fluorotelomersulfonic 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

*- 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: CWM Environmental
Reported: 05/19/2020 00:06

Group Number: 2098829

Method Blank (continued)

Analysis Name	Result	MDL**	LOQ
	ng/l	ng/l	ng/l
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

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ng/l	ng/l	ng/l	ng/l					
Batch number: 20131002	Sample number(s): 1311187-1311188,1311191								
NEtFOSAA	3.84	3.27	3.84	3.32	85	86	50-150	1	30
NMeFOSAA	3.84	3.02	3.84	3.32	79	86	50-150	10	30
Perfluorobutanesulfonic acid	3.40	3.01	3.40	3.03	88	89	50-150	1	30
Perfluorodecanoic acid	3.84	3.07	3.84	3.02	80	79	50-150	2	30
Perfluorododecanoic acid	3.84	3.02	3.84	2.93	79	76	50-150	3	30
Perfluoroheptanoic acid	3.84	3.03	3.84	3.19	79	83	50-150	5	30
Perfluorohexanesulfonic acid	3.50	2.98	3.50	2.99	85	85	50-150	0	30
Perfluorohexanoic acid	3.84	2.95	3.84	3.07	77	80	50-150	4	30
Perfluorononanoic acid	3.84	3.14	3.84	3.11	82	81	50-150	1	30
Perfluorooctanesulfonic acid	3.55	3.00	3.55	3.08	84	87	50-150	3	30
Perfluorooctanoic acid	3.84	3.40	3.84	3.64	89	95	50-150	7	30

*- 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: CWM Environmental
Reported: 05/19/2020 00:06

Group Number: 2098829

LCS/LCSD (continued)

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
Perfluorotetradecanoic acid	3.84	3.39	3.84	3.52	88	92	50-150	4	30
Perfluorotridecanoic acid	3.84	3.21	3.84	3.28	84	85	50-150	2	30
Perfluoroundecanoic acid	3.84	2.80	3.84	2.91	73	76	50-150	4	30
Batch number: 20133002	Sample number(s): 1311192								
NEtFOSAA	3.84	3.30	3.84	3.61	86	94	50-150	9	30
NMeFOSAA	3.84	3.43	3.84	3.62	89	94	50-150	5	30
Perfluorobutanesulfonic acid	3.40	2.93	3.40	3.11	86	91	50-150	6	30
Perfluorodecanoic acid	3.84	3.16	3.84	3.58	82	93	50-150	13	30
Perfluorododecanoic acid	3.84	3.35	3.84	3.55	87	92	50-150	6	30
Perfluoroheptanoic acid	3.84	3.61	3.84	3.71	94	96	50-150	2	30
Perfluorohexanesulfonic acid	3.50	3.16	3.50	3.37	90	96	50-150	6	30
Perfluorohexanoic acid	3.84	3.37	3.84	3.66	88	95	50-150	8	30
Perfluorononanoic acid	3.84	3.33	3.84	3.70	87	96	50-150	11	30
Perfluorooctanesulfonic acid	3.55	3.19	3.55	3.31	90	93	50-150	4	30
Perfluorooctanoic acid	3.84	3.59	3.84	3.60	94	94	50-150	0	30
Perfluorotetradecanoic acid	3.84	3.51	3.84	3.78	91	98	50-150	7	30
Perfluorotridecanoic acid	3.84	3.03	3.84	3.37	79	88	50-150	11	30
Perfluoroundecanoic acid	3.84	3.12	3.84	3.72	81	97	50-150	17	30
Batch number: 20134015	Sample number(s): 1311189-1311190								
10:2Fluorotelomersulfonic acid	24.68	36.91	24.68	35.79	150*	145*	45-143	3	30
4:2-Fluorotelomersulfonic acid	23.92	23.77	23.92	22.29	99	93	61-131	6	30
6:2-Fluorotelomersulfonic acid	24.28	22.3	24.28	22.87	92	94	56-140	3	30
8:2-Fluorotelomersulfonic acid	24.52	22.02	24.52	23.59	90	96	58-143	7	30
NEtFOSAA	25.6	24.42	25.6	24.18	95	94	53-140	1	30
NEtPFOSA	25.6	24.87	25.6	24.16	97	94	56-136	3	30
NEtPFOSAE	25.6	25.02	25.6	24.04	98	94	56-130	4	30
NMeFOSAA	25.6	25.4	25.6	26.1	99	102	59-141	3	30
NMePFOSA	25.6	27.01	25.6	28.42	105	111	49-134	5	30
NMePFOSAE	25.6	25.61	25.6	26.2	100	102	61-133	2	30
Perfluorobutanesulfonic acid	22.64	20.82	22.64	21.68	92	96	67-135	4	30
Perfluorobutanoic acid	25.6	19.66	25.6	20.19	77	79	63-160	3	30
Perfluorodecanesulfonic acid	24.64	20.97	24.64	19.45	85	79	62-135	7	30
Perfluorodecanoic acid	25.6	22.55	25.6	23.82	88	93	66-141	5	30
Perfluorododecanesulfonic acid	24.8	21.14	24.8	20.27	85	82	57-134	4	30
Perfluorododecanoic acid	25.6	23.91	25.6	24.01	93	94	65-143	0	30
Perfluoroheptanesulfonic acid	24.36	21.16	24.36	21.26	87	87	67-138	0	30
Perfluoroheptanoic acid	25.6	25.98	25.6	23.51	101	92	69-144	10	30
Perfluorohexadecanoic acid	25.6	21.68	25.6	22.41	85	88	60-148	3	30
Perfluorohexanesulfonic acid	24.2	22.08	24.2	21.38	91	88	63-132	3	30
Perfluorohexanoic acid	25.6	23.15	25.6	21.89	90	85	69-139	6	30
Perfluorononanesulfonic acid	24.56	21.06	24.56	19.28	86	79	70-137	9	30
Perfluorononanoic acid	25.6	23.87	25.6	22.65	93	88	66-144	5	30
Perfluorooctadecanoic acid	25.6	23.62	25.6	24.65	92	96	47-159	4	30

*- Outside of specification

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(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: CWM Environmental
Reported: 05/19/2020 00:06

Group Number: 2098829

LCS/LCSD (continued)

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
Perfluorooctanesulfonamide	25.6	22.77	25.6	23.05	89	90	67-126	1	30
Perfluorooctanesulfonic acid	24.48	19.62	24.48	18.29	80	75	53-129	7	30
Perfluorooctanoic acid	25.6	23.12	25.6	22.59	90	88	67-139	2	30
Perfluoropentanesulfonate	24	21.13	24	22.36	88	93	73-134	6	30
Perfluoropentanoic acid	25.6	22.17	25.6	24.31	87	95	73-135	9	30
Perfluorotetradecanoic acid	25.6	23.3	25.6	24.05	91	94	69-141	3	30
Perfluorotridecanoic acid	25.6	22.57	25.6	23.24	88	91	66-146	3	30
Perfluoroundecanoic acid	25.6	22.66	25.6	21.22	89	83	66-140	7	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14 compounds in drinking water
Batch number: 20131002

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1311187	106	114	109
1311188	89	89	95
1311191	100	112	121
Blank	84	96	106
LCS	81	85	92
LCSD	89	89	99
Limits:	70-130	70-130	70-130

Analysis Name: 14 compounds in drinking water
Batch number: 20133002

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1311192	88	95	89
Blank	92	90	91
LCS	86	95	86
LCSD	93	93	91
Limits:	70-130	70-130	70-130

Analysis Name: 32 compounds by EPA 537 mod
Batch number: 20134015

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
1311189	93	97	93	110	91	87
1311190	91	98	92	102	88	83

*- 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: CWM Environmental
Reported: 05/19/2020 00:06

Group Number: 2098829

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 compounds by EPA 537 mod
Batch number: 20134015

	13C4-PFBA	13C5-PFPeA	13C3-PFBS	13C2-4:2-FTS	13C5-PFHxA	13C3-PFHxS
Blank	98	97	98	100	93	101
LCS	91	90	91	88	86	92
LCSD	88	85	92	95	90	90
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
1311189	91	102	96	89	95	93
1311190	87	98	90	83	93	86
Blank	96	98	94	101	102	106
LCS	84	97	94	97	95	96
LCSD	89	97	94	103	102	95
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
1311189	96	93	95	108	93	89
1311190	95	84	94	96	86	89
Blank	109	107	110	109	97	106
LCS	96	99	103	110	98	102
LCSD	95	105	108	113	99	102
Limits:	37-169	36-143	44-128	42-149	36-127	21-134
	13C8-PFOSA	d7-NMePFOSAE	d3-NMePFOSA	d9-NEIPFOSAE	d5-NEIPFOSA	
1311189	62	40	11	37	10	
1311190	65	68	14	67	11	
Blank	84	79	27	80	27	
LCS	80	71	17	63	18	
LCSD	80	74	20	70	20	
Limits:	10-134	10-137	10-107	10-135	10-107	

*- 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

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 20413 Group # 2098829 Sample # 131187-92

COC # 604684

Client Information				Matrix			Analysis Requested										For Lab Use Only						
Client:		Acct. #:		<input type="checkbox"/> Tissue	<input type="checkbox"/> Ground	<input type="checkbox"/> Surface	Preservation and Filtration Codes										FSC:	SCR#: <u>257985</u>					
Project Name/#:		PWSID #:					<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES	Total # of Containers											Preservation Codes			
Project Manager:		P.O. #:		<input type="checkbox"/> Sediment	Water	Other:														H=HCl	T=Thiosulfate		
Sampler:		Quote #:															N=HNO ₃	B=NaOH					
State where samples were collected:		For Compliance:												S=H ₂ SO ₄	P=H ₃ PO ₄								
		Yes <input type="checkbox"/> No <input type="checkbox"/>												F=Field Filtered	O=Other								
Sample Identification			Collected		Grab	Composite	Soil	Water	Other:	Total # of Containers											Remarks		
			Date	Time																			
RAW - 201			5/6/20	0945	✓				2	✓	14 Compounds in DW												
EP101 - 201			5/6/20	1015	✓				2	✓	32 Compounds by EPA 537												
RAW - 173			5/6/20	0945	✓				2	✓													
EP101 - 173			5/6/20	1015	✓				2	✓													
Field Blank - EP101			5/6/20	1015	✓					✓													
Field Blank - RAW			5/6/20	0945	✓					✓													

Turnaround Time (TAT) Requested (please circle) Standard _____ Rush _____ (Rush TAT is subject to laboratory approval and surcharge.)		Relinquished by <u>Karl J. Smith</u> Date <u>5-10-20</u> Time <u>0825</u>		Received by _____ Date _____ Time _____	
Requested TAT in business days: _____		Relinquished by _____ Date _____ Time _____		Received by _____ Date _____ Time _____	
E-mail address: _____		Relinquished by _____ Date _____ Time _____		Received by _____ Date _____ Time _____	
Data Package Options (circle if required)		Relinquished by _____ Date _____ Time _____		Received by <u>mf</u> Date <u>5/7/20</u> Time <u>0826</u>	
Type I (EPA Level 3 Equivalent/non-CLP)		Type VI (Raw Data Only)		EDD Required? Yes No If yes, format: _____	
Type III (Reduced non-CLP)		NJ DKQP TX TRRP-13		Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____	
NYSDEC Category A or B		MA MCP CT RCP		Site-Specific QC (MS/MSD/Dup)? Yes No (If yes, indicate QC sample and submit triplicate sample volume.)	
				Temperature upon receipt <u>1.1</u> °C	

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • FOR HELP COMPLETING FORM CHECK OUT <https://www.eurofinsus.com/coc>

The white copy should accompany samples to Eurofins Lancaster Laboratories Environmental. The yellow copy should be retained by the client.

7044 0919

Client: 20413
CWM Environmental
PER COC

Ship To:
CWM Environmental
101 Parkview Extension Drive
Kittanning, PA 16201
724-543-3011
Attn: Ryan Schafer

PFAS only MAY 2020
The PFAS by EPA 537 V1.1 in potable water method requires a field reagent blank.

Group: 1

Number of Sample Locations: 2
One complete set of bottles listed below must be filled for each of the 2 sample location(s).

<u>Sample Description</u>	<u>QC Type</u>
Potable Water	

<u>Count</u>	<u>Code</u>	<u>Description</u>	<u>Preservative</u>	<u>Analysis Name</u>	<u>Hold Time</u>
2	201	250 ml wide mouth plastic	Trizma	14 compounds in drinking water	14 days

Group: 2

Number of Sample Locations: 2
One complete set of bottles listed below must be filled for each of the 2 sample location(s).

<u>Sample Description</u>	<u>QC Type</u>
Water	

<u>Count</u>	<u>Code</u>	<u>Description</u>	<u>Preservative</u>	<u>Analysis Name</u>	<u>Hold Time</u>
2	173	250 ml oblong plastic	None	32 compounds by EPA 537 mod	14 days

Group: 3

Number of Sample Locations: 2
One complete set of bottles listed below must be filled for each of the 2 sample location(s).

<u>Sample Description</u>	<u>QC Type</u>
Potable Water	Field Blank

<u>Count</u>	<u>Code</u>	<u>Description</u>	<u>Preservative</u>	<u>Analysis Name</u>	<u>Hold Time</u>
2	173	250 ml oblong plastic	None	14 compounds in drinking water	14 days

If you have any questions, please contact your Client Service Representative, Stephen Gordon, at (717)656-2300 x1009

Date Needed:
04/13/2020

Pack By:
04/10/2020

Shipping Method:
FEDEX 1 Day Ground

This order is:
Per your Request

Client: 20413
CWM Environmental
PER COC

Ship To:
CWM Environmental
101 Parkview Extension Drive
Kittanning, PA 16201
724-543-3011
Attn: Ryan Schafer

PFAS only MAY 2020
The PFAS by EPA 537 V1.1 in potable water method requires a field reagent blank.

Sample Acceptance Policy

Samples must be submitted in a manner that meets the criteria listed below. Clients will be contacted for direction on how to proceed for any non-regulatory samples that do not meet the criteria specified below. **Regulatory samples that were not processed properly in the field regarding any required preservation, filtration, and/or packaging on ice in accordance with the EPA methodology must be rejected by the laboratory.**

- Regulatory samples (SDWA, NPDES, etc.) must be identified on the sample submission paperwork to ensure proper sample handling and reporting.
- Documentation must be complete and include: sample identification, the location, date and time of collection, collector's name or initials, preservation type, sample type, and any special remarks concerning the sample.
- Proper sample labeling must include unique identification on a durable (water resistant) label using indelible ink.
- Sufficient sample volume (including required Matrix QC) must be collected in appropriate containers with proper field preservation processes (i.e. chemical, filtration) completed as dictated in the methods or regulations at the time of collection. The laboratory will provide appropriate bottleware and preservative.
- Samples must be shipped promptly to meet specified holding times with adequate packing materials to prevent damage during shipment and sufficient wet ice to meet method temperature requirements (0-6C, not frozen).
- Trip blank vials are provided when sample vials for volatile analyses are requested. The trip blank vials must be kept with your sample bottles at all times and returned to the laboratory with your shipment in order to ensure the integrity of your volatile samples.
- Safe Drinking Water Act (SDWA) compliance samples from PENNSYLVANIA will be rejected upon sample receipt if the method required trip /field blanks are not submitted with the samples per PADEP.

If you have any questions, please contact your Client Service Representative, Stephen Gordon, at (717)656-2300 x1009

Date Needed:

04/13/2020

Pack By:

04/10/2020

Shipping Method:

FEDEX 1 Day Ground

This order is:

Per your Request



Client: CWM ENVIRONMENTAL

Delivery and Receipt Information

Delivery Method:	<u>UPS</u>	Arrival Date:	<u>05/07/2020</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>PA</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 Jessenia Colon Martinez

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	DT131	1.1	DT	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 less than the LOQ
K2	Continuing Calibration Blank is above the QC limit and the sample result is less than the LOQ
K3	Initial Calibration Verification is above the QC limit and the sample result is less than the LOQ
K4	Continuing Calibration Verification is above the QC limit and the sample result is less than the LOQ
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
B	Detection in the Method Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q2	MS/MSD Low
Q3	MS/MSD High
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

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.