



ANALYSIS REPORT

Prepared by:

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

Prepared for:

C. T. Male Associates
50 Century Hill Drive
Latham NY 12110

Report Date: April 23, 2019 13:15

Project: Hoosick Falls WTP

Account #: 37191
Group Number: 2037519
SDG: HOO27
PO Number: 14.4756
State of Sample Origin: NY

Electronic Copy To	C. T. Male Associates	Attn: Kirk Moline
Electronic Copy To	C. T. Male Associates	Attn: Dan Reilly
Electronic Copy To	C. T. Male Associates	Attn: Jeff Marx
Electronic Copy To	Barr Engineering Company	Attn: Lauren Brady
Electronic Copy To	Environmental Standards	Attn: St. Gobain
Electronic Copy To	Barr Engineering Company	Attn: Data Mgt

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

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SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
G.A.C Influent Grab Drinking Water	04/04/2019 09:15	1027542
G.A.C Midfluent Grab Drinking Water	04/04/2019 09:19	1027543
G.A.C Effluent Grab Drinking Water	04/04/2019 09:23	1027544
PV-1 25 Grab Drinking Water	04/04/2019 10:07	1027545
PV-1 50 Grab Drinking Water	04/04/2019 10:10	1027546
PV-1 75 Grab Drinking Water	04/04/2019 10:13	1027547
FTB-190404 Grab Blank Water	04/04/2019 10:15	1027548
LTB-190404 Blank Water	04/04/2019	1027549

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

Project Name: Hoosick Falls WTP
ELLE Group #: 2037519

General Comments:

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set.

Matrix QC may not be reported if 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.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

Analysis Specific Comments:

No additional comments are necessary.

Sample Description: G.A.C Influent Grab Drinking Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: PW 1027542
ELLE Group #: 2037519
Matrix: Drinking Water

Project Name: Hoosick Falls WTP

Submission Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019 09:15
SDG#: HOO27-01

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1			ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	1.8 U	1.8	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	1.8 U	1.8	1
14070	Perfluorobutanesulfonate	375-73-5	1.8 U	1.8	1
14070	Perfluorodecanoic acid	335-76-2	1.8 U	1.8	1
14070	Perfluorododecanoic acid	307-55-1	1.8 U	1.8	1
14070	Perfluoroheptanoic acid	375-85-9	15	1.8	1
14070	Perfluorohexanesulfonate	355-46-4	1.8 U	1.8	1
14070	Perfluorohexanoic acid	307-24-4	13	1.8	1
14070	Perfluorononanoic acid	375-95-1	1.8 U	1.8	1
14070	Perfluoro-octanesulfonate	1763-23-1	3.2	1.8	1
14070	Perfluorooctanoic acid	335-67-1	450	18	10
14070	Perfluorotetradecanoic acid	376-06-7	1.8 U	1.8	1
14070	Perfluorotridecanoic acid	72629-94-8	1.8 U	1.8	1
14070	Perfluoroundecanoic acid	2058-94-8	1.8 U	1.8	1

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified					ng/l	ng/l	
14473	6:2 fluorotelomersulfonate	27619-97-2	1	U	1.8	1	1
14473	8:2 fluorotelomersulfonate	39108-34-4	1	U	5.3	1	1
14473	Perfluorobutanoic acid	375-22-4	1	U	6.2	1	1
14473	Perfluorodecanesulfonate	335-77-3	1	U	1.8	1	1
14473	Perfluoroheptanesulfonate	375-92-8	1	U	1.8	1	1
14473	Perfluorooctanesulfonamide	754-91-6	1	U	2.6	1	1
14473	Perfluoropentanoic acid	2706-90-3	1	U	5.3	1	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19100001	04/13/2019 02:31	Marissa C Drexinger	1
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19100001	04/16/2019 02:39	Marissa C Drexinger	10
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 02:15	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19100001	04/10/2019 06:45	Pamela Rothhapt	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Sample Description: G.A.C Midfluent Grab Drinking Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: PW 1027543
ELLE Group #: 2037519
Matrix: Drinking Water

Project Name: Hoosick Falls WTP

Submission Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019 09:19
SDG#: HOO27-02

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/l	ng/l	
14473	6:2 fluorotelomersulfonate	27619-97-2	1.8 U	1.8	1
14473	8:2 fluorotelomersulfonate	39108-34-4	5.3 U	5.3	1
14473	Perfluorobutanoic acid	375-22-4	6.2 U	6.2	1
14473	Perfluorodecanesulfonate	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonate	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide	754-91-6	2.6 U	2.6	1
14473	Perfluoropentanoic acid	2706-90-3	5.3 U	5.3	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19108002	04/19/2019 22:00	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 02:33	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	2	19108002	04/18/2019 08:05	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Sample Description: G.A.C Effluent Grab Drinking Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: PW 1027544
ELLE Group #: 2037519
Matrix: Drinking Water

Project Name: Hoosick Falls WTP

Submission Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019 09:23
SDG#: HOO27-03

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/l	ng/l	
14473	6:2 fluorotelomersulfonate	27619-97-2	1.7 U	1.7	1
14473	8:2 fluorotelomersulfonate	39108-34-4	5.2 U	5.2	1
14473	Perfluorobutanoic acid	375-22-4	6.1 U	6.1	1
14473	Perfluorodecanesulfonate	335-77-3	1.7 U	1.7	1
14473	Perfluoroheptanesulfonate	375-92-8	1.7 U	1.7	1
14473	Perfluorooctanesulfonamide	754-91-6	2.6 U	2.6	1
14473	Perfluoropentanoic acid	2706-90-3	5.2 U	5.2	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19100001	04/13/2019 02:54	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 02:42	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19100001	04/10/2019 06:45	Pamela Rothharpt	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Sample Description: PV-1 25 Grab Drinking Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: PW 1027545
ELLE Group #: 2037519
Matrix: Drinking Water

Project Name: Hoosick Falls WTP

Submission Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019 10:07
SDG#: HOO27-04

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1			ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	2.0 U	2.0	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	2.0 U	2.0	1
14070	Perfluorobutanesulfonate	375-73-5	2.0 U	2.0	1
14070	Perfluorodecanoic acid	335-76-2	2.0 U	2.0	1
14070	Perfluorododecanoic acid	307-55-1	2.0 U	2.0	1
14070	Perfluoroheptanoic acid	375-85-9	2.5	2.0	1
14070	Perfluorohexanesulfonate	355-46-4	2.0 U	2.0	1
14070	Perfluorohexanoic acid	307-24-4	5.5	2.0	1
14070	Perfluorononanoic acid	375-95-1	2.0 U	2.0	1
14070	Perfluoro-octanesulfonate	1763-23-1	2.0 U	2.0	1
14070	Perfluorooctanoic acid	335-67-1	53	2.0	1
14070	Perfluorotetradecanoic acid	376-06-7	2.0 U	2.0	1
14070	Perfluorotridecanoic acid	72629-94-8	2.0 U	2.0	1
14070	Perfluoroundecanoic acid	2058-94-8	2.0 U	2.0	1

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified					ng/l		
14473	6:2 fluorotelomersulfonate	27619-97-2	2.0 U	2.0	1		
14473	8:2 fluorotelomersulfonate	39108-34-4	6.0 U	6.0	1		
14473	Perfluorobutanoic acid	375-22-4	7.7	7.0	1		
14473	Perfluorodecanesulfonate	335-77-3	2.0 U	2.0	1		
14473	Perfluoroheptanesulfonate	375-92-8	2.0 U	2.0	1		
14473	Perfluorooctanesulfonamide	754-91-6	3.0 U	3.0	1		
14473	Perfluoropentanoic acid	2706-90-3	6.0 U	6.0	1		

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19100001	04/13/2019 03:06	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 02:51	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19100001	04/10/2019 06:45	Pamela Rothharpt	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Sample Description: PV-1 50 Grab Drinking Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: PW 1027546
ELLE Group #: 2037519
Matrix: Drinking Water

Project Name: Hoosick Falls WTP

Submission Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019 10:10
SDG#: HOO27-05

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1			ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	1.9 U	1.9	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	1.9 U	1.9	1
14070	Perfluorobutanesulfonate	375-73-5	1.9 U	1.9	1
14070	Perfluorodecanoic acid	335-76-2	1.9 U	1.9	1
14070	Perfluorododecanoic acid	307-55-1	1.9 U	1.9	1
14070	Perfluoroheptanoic acid	375-85-9	1.9 U	1.9	1
14070	Perfluorohexanesulfonate	355-46-4	1.9 U	1.9	1
14070	Perfluorohexanoic acid	307-24-4	1.9 U	1.9	1
14070	Perfluorononanoic acid	375-95-1	1.9 U	1.9	1
14070	Perfluoro-octanesulfonate	1763-23-1	1.9 U	1.9	1
14070	Perfluorooctanoic acid	335-67-1	1.9 U	1.9	1
14070	Perfluorotetradecanoic acid	376-06-7	1.9 U	1.9	1
14070	Perfluorotridecanoic acid	72629-94-8	1.9 U	1.9	1
14070	Perfluoroundecanoic acid	2058-94-8	1.9 U	1.9	1

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/l	ng/l	
14473	6:2 fluorotelomersulfonate	27619-97-2	1.9 U	1.9	1
14473	8:2 fluorotelomersulfonate	39108-34-4	5.7 U	5.7	1
14473	Perfluorobutanoic acid	375-22-4	12	6.6	1
14473	Perfluorodecanesulfonate	335-77-3	1.9 U	1.9	1
14473	Perfluoroheptanesulfonate	375-92-8	1.9 U	1.9	1
14473	Perfluorooctanesulfonamide	754-91-6	2.8 U	2.8	1
14473	Perfluoropentanoic acid	2706-90-3	5.7 U	5.7	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19108002	04/19/2019 22:12	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 03:00	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	2	19108002	04/18/2019 08:05	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Sample Description: PV-1 75 Grab Drinking Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: PW 1027547
ELLE Group #: 2037519
Matrix: Drinking Water

Project Name: Hoosick Falls WTP

Submission Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019 10:13
SDG#: HOO27-06

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1			ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	1.9 U	1.9	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	1.9 U	1.9	1
14070	Perfluorobutanesulfonate	375-73-5	1.9 U	1.9	1
14070	Perfluorodecanoic acid	335-76-2	1.9 U	1.9	1
14070	Perfluorododecanoic acid	307-55-1	1.9 U	1.9	1
14070	Perfluoroheptanoic acid	375-85-9	1.9 U	1.9	1
14070	Perfluorohexanesulfonate	355-46-4	1.9 U	1.9	1
14070	Perfluorohexanoic acid	307-24-4	1.9 U	1.9	1
14070	Perfluorononanoic acid	375-95-1	1.9 U	1.9	1
14070	Perfluoro-octanesulfonate	1763-23-1	1.9 U	1.9	1
14070	Perfluorooctanoic acid	335-67-1	1.9 U	1.9	1
14070	Perfluorotetradecanoic acid	376-06-7	1.9 U	1.9	1
14070	Perfluorotridecanoic acid	72629-94-8	1.9 U	1.9	1
14070	Perfluoroundecanoic acid	2058-94-8	1.9 U	1.9	1

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/l	ng/l	
14473	6:2 fluorotelomersulfonate	27619-97-2	1.9 U	1.9	1
14473	8:2 fluorotelomersulfonate	39108-34-4	5.8 U	5.8	1
14473	Perfluorobutanoic acid	375-22-4	6.7 U	6.7	1
14473	Perfluorodecanesulfonate	335-77-3	1.9 U	1.9	1
14473	Perfluoroheptanesulfonate	375-92-8	1.9 U	1.9	1
14473	Perfluorooctanesulfonamide	754-91-6	2.9 U	2.9	1
14473	Perfluoropentanoic acid	2706-90-3	5.8 U	5.8	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19108002	04/19/2019 22:23	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 03:09	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	2	19108002	04/18/2019 08:05	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Sample Description: FTB-190404 Grab Blank Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: WW 1027548
ELLE Group #: 2037519
Matrix: Blank Water

Project Name: Hoosick Falls WTP

Submittal Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019 10:15
SDG#: H0027-07FB

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/l	ng/l	
14473	6:2 fluorotelomersulfonate	27619-97-2	1.8 U	1.8	1
14473	8:2 fluorotelomersulfonate	39108-34-4	5.4 U	5.4	1
14473	Perfluorobutanoic acid	375-22-4	6.3 U	6.3	1
14473	Perfluorodecanesulfonate	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonate	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide	754-91-6	2.7 U	2.7	1
14473	Perfluoropentanoic acid	2706-90-3	5.4 U	5.4	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19100001	04/13/2019 03:40	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 03:18	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19100001	04/10/2019 06:45	Pamela Rothharpt	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Sample Description: LTB-190404 Blank Water
Hoosick Falls Water Treatment Plant

C. T. Male Associates
ELLE Sample #: WW 1027549
ELLE Group #: 2037519
Matrix: Blank Water

Project Name: Hoosick Falls WTP

Submission Date/Time: 04/05/2019 10:10
Collection Date/Time: 04/04/2019
SDG#: HOO27-08TB

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified			ng/l	ng/l	
14473	6:2 fluorotelomersulfonate	27619-97-2	1.8 U	1.8	1
14473	8:2 fluorotelomersulfonate	39108-34-4	5.3 U	5.3	1
14473	Perfluorobutanoic acid	375-22-4	6.2 U	6.2	1
14473	Perfluorodecanesulfonate	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonate	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide	754-91-6	2.6 U	2.6	1
14473	Perfluoropentanoic acid	2706-90-3	5.3 U	5.3	1

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19100001	04/13/2019 03:52	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19101010	04/18/2019 03:27	Jason W Knight	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19100001	04/10/2019 06:45	Pamela Rothharpt	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19101010	04/11/2019 14:50	Isaac Phillips-Cary	1

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/23/2019 13:15

Group Number: 2037519

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	LOQ
	ng/l	ng/l
Batch number: 19100001	Sample number(s): 1027542,1027544-1027545,1027548-1027549	
NEtFOSAA	2.0 U	2.0
NMeFOSAA	2.0 U	2.0
Perfluorobutanesulfonate	2.0 U	2.0
Perfluorodecanoic acid	2.0 U	2.0
Perfluorododecanoic acid	2.0 U	2.0
Perfluoroheptanoic acid	2.0 U	2.0
Perfluorohexanesulfonate	2.0 U	2.0
Perfluorohexanoic acid	2.0 U	2.0
Perfluorononanoic acid	2.0 U	2.0
Perfluoro-octanesulfonate	2.0 U	2.0
Perfluorooctanoic acid	2.0 U	2.0
Perfluorotetradecanoic acid	2.0 U	2.0
Perfluorotridecanoic acid	2.0 U	2.0
Perfluoroundecanoic acid	2.0 U	2.0
Batch number: 19101010	Sample number(s): 1027542-1027549	
6:2 fluorotelomersulfonate	2.0 U	2.0
8:2 fluorotelomersulfonate	6.0 U	6.0
Perfluorobutanoic acid	6.0 U	6.0
Perfluorodecanesulfonate	2.0 U	2.0
Perfluoroheptanesulfonate	2.0 U	2.0
Perfluorooctanesulfonamide	3.0 U	3.0
Perfluoropentanoic acid	6.0 U	6.0
Batch number: 19108002	Sample number(s): 1027543,1027546-1027547	
NEtFOSAA	2.0 U	2.0
NMeFOSAA	2.0 U	2.0
Perfluorobutanesulfonate	2.0 U	2.0
Perfluorodecanoic acid	2.0 U	2.0
Perfluorododecanoic acid	2.0 U	2.0
Perfluoroheptanoic acid	2.0 U	2.0
Perfluorohexanesulfonate	2.0 U	2.0
Perfluorohexanoic acid	2.0 U	2.0
Perfluorononanoic acid	2.0 U	2.0
Perfluoro-octanesulfonate	2.0 U	2.0
Perfluorooctanoic acid	2.0 U	2.0
Perfluorotetradecanoic acid	2.0 U	2.0
Perfluorotridecanoic acid	2.0 U	2.0
Perfluoroundecanoic acid	2.0 U	2.0

*- Outside of specification

(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.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/23/2019 13:15

Group Number: 2037519

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: 19100001									
Sample number(s): 1027542,1027544-1027545,1027548-1027549									
NEtFOSAA	80	62.13	80	68.91	78	86	70-130	10	30
NMeFOSAA	80	65.07	80	66.18	81	83	70-130	2	30
Perfluorobutanesulfonate	70.8	64.58	70.8	61.22	91	86	70-130	5	30
Perfluorodecanoic acid	80	69.33	80	68.99	87	86	70-130	0	30
Perfluorododecanoic acid	80	67.99	80	69.07	85	86	70-130	2	30
Perfluoroheptanoic acid	80	64.87	80	70.98	81	89	70-130	9	30
Perfluorohexanesulfonate	72.96	64.41	72.96	63.46	88	87	70-130	1	30
Perfluorohexanoic acid	80	65.26	80	68.7	82	86	70-130	5	30
Perfluorononanoic acid	80	67.38	80	71.07	84	89	70-130	5	30
Perfluoro-octanesulfonate	74.04	61.92	74.04	62.09	84	84	70-130	0	30
Perfluorooctanoic acid	80	68.02	80	70.05	85	88	70-130	3	30
Perfluorotetradecanoic acid	80	64.82	80	68.42	81	86	70-130	5	30
Perfluorotridecanoic acid	80	66.02	80	71.26	83	89	70-130	8	30
Perfluoroundecanoic acid	80	66.3	80	69.13	83	86	70-130	4	30
Batch number: 19101010									
Sample number(s): 1027542-1027549									
6:2 fluorotelomersulfonate	15.17	14.89	15.17	14.91	98	98	66-155	0	30
8:2 fluorotelomersulfonate	15.33	16.66	15.33	16.54	109	108	66-148	1	30
Perfluorobutanoic acid	5.44	6.66	5.44	6.63	122	122	74-142	1	30
Perfluorodecanesulfonate	5.24	5.60	5.24	6.16	107	118	60-135	9	30
Perfluoroheptanesulfonate	5.18	5.86	5.18	6.03	113	116	64-135	3	30
Perfluorooctanesulfonamide	5.44	5.42	5.44	5.31	100	98	65-164	2	30
Perfluoropentanoic acid	5.44	6.49	5.44	6.17	119	113	74-134	5	30
Batch number: 19108002									
Sample number(s): 1027543,1027546-1027547									
NEtFOSAA	20.48	21.31	20.48	20.18	104	99	70-130	5	30
NMeFOSAA	20.48	22.06	20.48	21.23	108	104	70-130	4	30
Perfluorobutanesulfonate	18.12	18.57	18.12	20.05	102	111	70-130	8	30
Perfluorodecanoic acid	20.48	22.65	20.48	23.32	111	114	70-130	3	30
Perfluorododecanoic acid	20.48	22.89	20.48	23.84	112	116	70-130	4	30
Perfluoroheptanoic acid	20.48	24.24	20.48	23.45	118	115	70-130	3	30
Perfluorohexanesulfonate	18.68	19.65	18.68	21.12	105	113	70-130	7	30
Perfluorohexanoic acid	20.48	22.44	20.48	23.61	110	115	70-130	5	30
Perfluorononanoic acid	20.48	23.63	20.48	23.2	115	113	70-130	2	30
Perfluoro-octanesulfonate	18.96	19.43	18.96	20.8	103	110	70-130	7	30
Perfluorooctanoic acid	20.48	22.59	20.48	23.94	110	117	70-130	6	30
Perfluorotetradecanoic acid	20.48	22.98	20.48	24.12	112	118	70-130	5	30
Perfluorotridecanoic acid	20.48	22.87	20.48	23.74	112	116	70-130	4	30
Perfluoroundecanoic acid	20.48	21.66	20.48	23.95	106	117	70-130	10	30

*- Outside of specification

(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.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/23/2019 13:15

Group Number: 2037519

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 PFAS Drinking Water List
Batch number: 19100001

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1027542	101	97	102
1027544	102	103	100
1027545	104	99	96
1027548	91	86	95
1027549	98	101	98
Blank	79	84	82
LCS	79	81	82
LCSD	95	90	103
Limits:	70-130	70-130	70-130

Analysis Name: 7 PFAS Compounds
Batch number: 19101010

	13C4-PFBA	13C5-PFPeA	13C3-PFHxS	13C2-6:2-FTS	13C8-PFOS	13C2-8:2-FTS
1027542	91	102	112	91	96	106
1027543	77	75	76	79	81	91
1027544	78	77	77	81	82	91
1027545	75	79	76	78	79	81
1027546	81	82	79	83	84	89
1027547	82	81	80	93	85	89
1027548	80	77	78	81	85	87
1027549	76	76	72	79	78	79
Blank	71	69	70	78	80	80
LCS	86	87	85	93	87	99
LCSD	81	78	83	88	81	90
Limits:	33-123	31-157	34-126	32-170	50-121	27-164

	13C8-PFOSA
1027542	82
1027543	73
1027544	80
1027545	76
1027546	83
1027547	83
1027548	75
1027549	73
Blank	71
LCS	85
LCSD	75

*- Outside of specification

(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.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: C. T. Male Associates
Reported: 04/23/2019 13:15

Group Number: 2037519

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: 7 PFAS Compounds
Batch number: 19101010

Limits: 11-127

Analysis Name: 14 PFAS Drinking Water List
Batch number: 19108002

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1027543	116	120	104
1027546	116	116	97
1027547	101	109	98
Blank	106	105	104
LCS	116	116	107
LCSD	118	118	98
Limits:	70-130	70-130	70-130

*- Outside of specification

(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.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191

Group #: 2037519

Sample #: 1027542-49

COC#: 20023

Client: C.T. Male Associates		Project Name/#: Hoosick Falls WTP		Site ID:		Matrix <input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input checked="" type="checkbox"/> Water <input type="checkbox"/> NPDES Other: <i>Reagent water</i>		Analyses Requested										For Lab Use Only					
Project Manager: Kirk Moline		P.O. #: 14.4756		Quote #: 219169				Preservation and Filtration Codes Z 7 PFCs (EPA 537 mod.) 14 PFCs (EPA 537 ver. 1.1)										SF#: 303216					
Sampler: <i>Christopher Omski</i>		For Compliance:		Yes <input type="checkbox"/> No <input type="checkbox"/>														SCR#: 238455					
Phone #: <i>(518) 786-7400</i>		State where sample(s) were collected: NY																Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other Z = Trizma					
Sample Identification		Collection		Grab	Composite	Soil	Water	Other	Total # of Containers											Remarks			
		Date	Time																				
<i>G.A.C. Inflow</i>		<i>4/4/19</i>	<i>0915</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<i>2 TAZs + 2 non-trizma</i>	
<i>G.A.C. Midflow</i>			<i>0919</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>G.A.C. Effluent</i>			<i>0923</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>PV-1 25</i>			<i>1007</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>PV-1 50</i>			<i>1010</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>PV-1 75</i>			<i>1013</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>FTB - 190404</i>			<i>1015</i>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>LTB - 190404</i>			<i>-</i>					<input checked="" type="checkbox"/>	<i>4</i>														
Turnaround Time Requested (TAT) (please check): Standard <input type="checkbox"/> RUSH <input checked="" type="checkbox"/>		(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)		Relinquished by: <i>Paul Rute</i>		Date: <i>3/28/19</i>		Time: <i>10:00</i>		Received by: <i>Christopher Omski</i>		Date: <i>4/4/19</i>		Time: <i>0730</i>									
Date results are needed:		E-mail address to send RUSH results:		Relinquished by: <i>Christopher Omski</i>		Date: <i>4/4/19</i>		Time: <i>1150</i>		Received by:		Date:		Time:									
Data Package Options (please check if required)		Type I (Validation/non-CLP) <input type="checkbox"/>		MA MCP <input type="checkbox"/>		TX TRRP - 13 <input type="checkbox"/>		Relinquished by:		Date:		Time:		Received by:		Date:		Time:					
Type III (Reduced non-CLP) <input type="checkbox"/>		CT RCP <input type="checkbox"/>		ASP Type A <input type="checkbox"/>		ASP Type B <input checked="" type="checkbox"/>		Relinquished by:		Date:		Time:		Received by:		Date:		Time:					
EDD Format: EQUIS		If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.		Airbill No.:		Relinquished by Commercial Carrier:		UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other <input type="checkbox"/>		Temperature upon receipt: <i>0.6</i> °C													



Lancaster Laboratories
Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 245656



Group Number(s): 2037569

Client: C.T. Male Associates

Hoosick Falls WTP

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>04/05/2019 10:10</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>NY</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	VOA Vial Headspace \geq 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Darian Jaynes (29952) at 18:02 on 04/05/2019

Samples Chilled Details: Hoosick Falls WTP

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	32170023	0.4	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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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.