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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: July 11, 2019 18:49

Project: Hoosick Falls WTP

Account #: 37191
Group Number: 2052022
SDG: HOO31
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

Nancy Jean Bornholm
Principal Specialist

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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.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
SG1-LTB02-190702 Blank Water	07/02/2019	1094804
SG1-FTB02-190702 Grab Blank Water	07/02/2019 09:50	1094805
GAC Influent Grab Drinking Water	07/02/2019 09:30	1094806
GAC Midfluent Grab Drinking Water	07/02/2019 09:32	1094807
GAC Effluent Grab Drinking Water	07/02/2019 09:34	1094808
PV-1 25 Grab Drinking Water	07/02/2019 09:55	1094809
PV-1 50 Grab Drinking Water	07/02/2019 09:57	1094810
PV-1 75 Grab Drinking Water	07/02/2019 09:59	1094811

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

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Project Name: Hoosick Falls WTP
ELLE Group #: 2052022

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.

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Analysis Report

Sample Description: **SG1-LTB02-190702 Blank Water**
Hoosick Falls Water Treatment Plant

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019
SDG#: HOO31-01TB

C. T. Male Associates
ELLE Sample #: PW 1094804
ELLE Group #: 2052022
Matrix: Blank Water

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[1]	2991-50-6	1.9	U	1.9	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA[1]	2355-31-9	1.9	U	1.9	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.9	U	1.9	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.9	U	1.9	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.9	U	1.9	1
14070	Perfluoroheptanoic acid[1]	375-85-9	1.9	U	1.9	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.9	U	1.9	1
14070	Perfluorohexanoic acid[1]	307-24-4	1.9	U	1.9	1
14070	Perfluorononanoic acid[1]	375-95-1	1.9	U	1.9	1
14070	Perfluorooctanesulfonic acid[1]	1763-23-1	1.9	U	1.9	1
14070	Perfluorooctanoic acid[1]	335-67-1	1.9	U	1.9	1
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.9	U	1.9	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.9	U	1.9	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.9	U	1.9	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.8	U	1.8	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.4	U	5.4	1
14473	Perfluorobutanoic acid[1]	375-22-4	6.3	U	6.3	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.8	U	1.8	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.8	U	1.8	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.7	U	2.7	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.4	U	5.4	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/09/2019 23:27	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 02:28	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

Sample Description: **SG1-FTB02-190702 Grab Blank Water**
Hoosick Falls Water Treatment Plant

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019 09:50
SDG#: HOO31-02FB

C. T. Male Associates
ELLE Sample #: PW 1094805
ELLE Group #: 2052022
Matrix: Blank Water

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[1]	2991-50-6	1.8	U	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA[1]	2355-31-9	1.8	U	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.8	U	1.8	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.8	U	1.8	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.8	U	1.8	1
14070	Perfluoroheptanoic acid[1]	375-85-9	1.8	U	1.8	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.8	U	1.8	1
14070	Perfluorohexanoic acid[1]	307-24-4	1.8	U	1.8	1
14070	Perfluorononanoic acid[1]	375-95-1	1.8	U	1.8	1
14070	Perfluorooctanesulfonic acid[1]	1763-23-1	1.8	U	1.8	1
14070	Perfluorooctanoic acid[1]	335-67-1	1.8	U	1.8	1
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.8	U	1.8	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.8	U	1.8	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.8	U	1.8	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.7	U	1.7	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.2	U	5.2	1
14473	Perfluorobutanoic acid[1]	375-22-4	6.1	U	6.1	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.7	U	1.7	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.7	U	1.7	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.6	U	2.6	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.2	U	5.2	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/09/2019 23:39	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 02:37	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

Sample Description: **GAC Influent Grab Drinking Water**
Hoosick Falls Water Treatment Plant

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019 09:30
SDG#: HOO31-03

C. T. Male Associates
ELLE Sample #: PW 1094806
ELLE Group #: 2052022
Matrix: Drinking Water

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[1]	2991-50-6	1.9 U	1.9	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA[1]	2355-31-9	1.9 U	1.9	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.9 U	1.9	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.9 U	1.9	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.9 U	1.9	1
14070	**Perfluoroheptanoic acid[1]**	375-85-9	**14**	1.9	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.9 U	1.9	1
14070	**Perfluorohexanoic acid[1]**	307-24-4	**15**	1.9	1
14070	Perfluorononanoic acid[1]	375-95-1	1.9 U	1.9	1
14070	**Perfluorooctanesulfonic acid[1]**	1763-23-1	**3.1**	1.9	1
14070	**Perfluorooctanoic acid[1]**	335-67-1	**460**	19	10
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.9 U	1.9	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.9 U	1.9	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.9 U	1.9	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**	**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.8 U	1.8	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.4 U	5.4	1
14473	Perfluorobutanoic acid[1]	375-22-4	6.3 U	6.3	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.7 U	2.7	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.4 U	5.4	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/09/2019 23:50	Marissa C Drexinger	1
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/10/2019 17:42	Marissa C Drexinger	10
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 02:46	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

Sample Description: **GAC Midfluent Grab Drinking Water**
Hoosick Falls Water Treatment Plant

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019 09:32
SDG#: HOO31-04

C. T. Male Associates
ELLE Sample #: PW 1094807
ELLE Group #: 2052022
Matrix: Drinking Water

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[1]	2991-50-6	1.9	U	1.9	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA[1]	2355-31-9	1.9	U	1.9	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.9	U	1.9	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.9	U	1.9	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.9	U	1.9	1
14070	Perfluoroheptanoic acid[1]	375-85-9	1.9	U	1.9	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.9	U	1.9	1
14070	Perfluorohexanoic acid[1]	307-24-4	1.9	U	1.9	1
14070	Perfluorononanoic acid[1]	375-95-1	1.9	U	1.9	1
14070	Perfluorooctanesulfonic acid[1]	1763-23-1	1.9	U	1.9	1
14070	Perfluorooctanoic acid[1]	335-67-1	1.9	U	1.9	1
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.9	U	1.9	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.9	U	1.9	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.9	U	1.9	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.8	U	1.8	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.4	U	5.4	1
14473	Perfluorobutanoic acid[1]	375-22-4	6.3	U	6.3	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.8	U	1.8	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.8	U	1.8	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.7	U	2.7	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.4	U	5.4	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/10/2019 00:02	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 02:55	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

Sample Description: **GAC Effluent Grab Drinking Water**
Hoosick Falls Water Treatment Plant

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019 09:34
SDG#: HOO31-05

C. T. Male Associates
ELLE Sample #: PW 1094808
ELLE Group #: 2052022
Matrix: Drinking Water

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[1]	2991-50-6	1.9	U	1.9	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA[1]	2355-31-9	1.9	U	1.9	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.9	U	1.9	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.9	U	1.9	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.9	U	1.9	1
14070	Perfluoroheptanoic acid[1]	375-85-9	1.9	U	1.9	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.9	U	1.9	1
14070	Perfluorohexanoic acid[1]	307-24-4	1.9	U	1.9	1
14070	Perfluorononanoic acid[1]	375-95-1	1.9	U	1.9	1
14070	Perfluorooctanesulfonic acid[1]	1763-23-1	1.9	U	1.9	1
14070	Perfluorooctanoic acid[1]	335-67-1	1.9	U	1.9	1
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.9	U	1.9	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.9	U	1.9	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.9	U	1.9	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.8	U	1.8	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.4	U	5.4	1
14473	Perfluorobutanoic acid[1]	375-22-4	6.3	U	6.3	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.8	U	1.8	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.8	U	1.8	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.7	U	2.7	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.4	U	5.4	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/10/2019 00:13	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 03:05	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

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

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019 09:55
SDG#: HOO31-06

C. T. Male Associates
ELLE Sample #: PW 1094809
ELLE Group #: 2052022
Matrix: Drinking Water

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[1]	2991-50-6	1.8 U	1.8	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA[1]	2355-31-9	1.8 U	1.8	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.8 U	1.8	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.8 U	1.8	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.8 U	1.8	1
14070	**Perfluoroheptanoic acid[1]**	375-85-9	**7.7**	1.8	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.8 U	1.8	1
14070	**Perfluorohexanoic acid[1]**	307-24-4	**11**	1.8	1
14070	Perfluorononanoic acid[1]	375-95-1	1.8 U	1.8	1
14070	Perfluorooctanesulfonic acid[1]	1763-23-1	1.8 U	1.8	1
14070	**Perfluorooctanoic acid[1]**	335-67-1	**180**	18	10
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.8 U	1.8	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.8 U	1.8	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.8 U	1.8	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**	**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.8 U	1.8	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.5 U	5.5	1
14473	**Perfluorobutanoic acid[1]**	375-22-4	**6.7**	6.4	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.8 U	2.8	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.5 U	5.5	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/10/2019 00:36	Marissa C Drexinger	1
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/10/2019 17:53	Marissa C Drexinger	10
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 03:23	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

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

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019 09:57
SDG#: HOO31-07

C. T. Male Associates
ELLE Sample #: PW 1094810
ELLE Group #: 2052022
Matrix: Drinking Water

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[1]	2991-50-6	1.9 U	1.9	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.				
14070	NMeFOSAA[1]	2355-31-9	1.9 U	1.9	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.				
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.9 U	1.9	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.9 U	1.9	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.9 U	1.9	1
14070	Perfluoroheptanoic acid[1]	375-85-9	1.9 U	1.9	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.9 U	1.9	1
14070	Perfluorohexanoic acid[1]	307-24-4	1.9 U	1.9	1
14070	Perfluorononanoic acid[1]	375-95-1	1.9 U	1.9	1
14070	Perfluorooctanesulfonic acid[1]	1763-23-1	1.9 U	1.9	1
14070	**Perfluorooctanoic acid[1]**	335-67-1	**1.9**	1.9	1
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.9 U	1.9	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.9 U	1.9	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.9 U	1.9	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**	**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.8 U	1.8	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.4 U	5.4	1
14473	**Perfluorobutanoic acid[1]**	375-22-4	**10**	6.3	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.7 U	2.7	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.4 U	5.4	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/10/2019 00:48	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 03:32	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

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

Project Name: **Hoosick Falls WTP**

Submittal Date/Time: 07/03/2019 10:30
Collection Date/Time: 07/02/2019 09:59
SDG#: HOO31-08

C. T. Male Associates
ELLE Sample #: PW 1094811
ELLE Group #: 2052022
Matrix: Drinking Water

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[1]	2991-50-6	1.9	U	1.9	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA[1]	2355-31-9	1.9	U	1.9	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid[1]	375-73-5	1.9	U	1.9	1
14070	Perfluorodecanoic acid[1]	335-76-2	1.9	U	1.9	1
14070	Perfluorododecanoic acid[1]	307-55-1	1.9	U	1.9	1
14070	Perfluoroheptanoic acid[1]	375-85-9	1.9	U	1.9	1
14070	Perfluorohexanesulfonic acid[1]	355-46-4	1.9	U	1.9	1
14070	Perfluorohexanoic acid[1]	307-24-4	1.9	U	1.9	1
14070	Perfluorononanoic acid[1]	375-95-1	1.9	U	1.9	1
14070	Perfluorooctanesulfonic acid[1]	1763-23-1	1.9	U	1.9	1
14070	Perfluorooctanoic acid[1]	335-67-1	1.9	U	1.9	1
14070	Perfluorotetradecanoic acid[1]	376-06-7	1.9	U	1.9	1
14070	Perfluorotridecanoic acid[1]	72629-94-8	1.9	U	1.9	1
14070	Perfluoroundecanoic acid[1]	2058-94-8	1.9	U	1.9	1
LC/MS/MS Miscellaneous	**EPA 537 Version 1.1 Modified**		**ng/l**		**ng/l**	
14473	6:2-Fluorotelomersulfonic acid[1]	27619-97-2	1.8	U	1.8	1
14473	8:2-Fluorotelomersulfonic acid[1]	39108-34-4	5.3	U	5.3	1
14473	**Perfluorobutanoic acid[1]**	375-22-4	**11**		6.2	1
14473	Perfluorodecanesulfonic acid[1]	335-77-3	1.8	U	1.8	1
14473	Perfluoroheptanesulfonic acid[1]	375-92-8	1.8	U	1.8	1
14473	Perfluorooctanesulfonamide[1]	754-91-6	2.7	U	2.7	1
14473	Perfluoropentanoic acid[1]	2706-90-3	5.3	U	5.3	1

Sample Comments

[1] = This analyte was not on the laboratory's NYSDOH 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
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19186008	07/10/2019 00:59	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19189001	07/11/2019 03:41	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19186008	07/05/2019 08:20	Courtney J Fatta	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19189001	07/08/2019 08:55	Courtney J Fatta	1

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Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/11/2019 18:49

Group Number: 2052022

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: 19186008	Sample number(s): 1094804-1094811		
NEtFOSAA	2.0	U	2.0
NMeFOSAA	2.0	U	2.0
Perfluorobutanesulfonic acid	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
Perfluorohexanesulfonic acid	2.0	U	2.0
Perfluorohexanoic acid	2.0	U	2.0
Perfluorononanoic acid	2.0	U	2.0
Perfluorooctanesulfonic acid	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: 19189001	Sample number(s): 1094804-1094811		
6:2-Fluorotelomersulfonic acid	2.0	U	2.0
8:2-Fluorotelomersulfonic acid	6.0	U	6.0
Perfluorobutanoic acid	6.0	U	6.0
Perfluorodecanesulfonic acid	2.0	U	2.0
Perfluoroheptanesulfonic acid	2.0	U	2.0
Perfluorooctanesulfonamide	3.0	U	3.0
Perfluoropentanoic acid	6.0	U	6.0

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: 19186008	Sample number(s): 1094804-1094811								
NEtFOSAA	80	71.95	80	74.25	90	93	70-130	3	30
NMeFOSAA	80	68.71	80	71.72	86	90	70-130	4	30
Perfluorobutanesulfonic acid	70.8	60.69	70.8	62.67	86	89	70-130	3	30
Perfluorodecanoic acid	80	78.08	80	78.43	98	98	70-130	0	30
Perfluorododecanoic acid	80	72.31	80	72.38	90	90	70-130	0	30
Perfluoroheptanoic acid	80	68.52	80	67.21	86	84	70-130	2	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.

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Quality Control Summary

Client Name: C. T. Male Associates
Reported: 07/11/2019 18:49

Group Number: 2052022

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
Perfluorohexanesulfonic acid	72.96	65.61	72.96	64.57	90	89	70-130	2	30
Perfluorohexanoic acid	80	71.6	80	69.3	89	87	70-130	3	30
Perfluorononanoic acid	80	75.77	80	74.07	95	93	70-130	2	30
Perfluorooctanesulfonic acid	74.04	67.3	74.04	69.52	91	94	70-130	3	30
Perfluorooctanoic acid	80	74.16	80	71.72	93	90	70-130	3	30
Perfluorotetradecanoic acid	80	69.51	80	68.79	87	86	70-130	1	30
Perfluorotridecanoic acid	80	65.77	80	67.61	82	85	70-130	3	30
Perfluoroundecanoic acid	80	73.57	80	75.49	92	94	70-130	3	30
Batch number: 19189001	Sample number(s): 1094804-1094811								
6:2-Fluorotelomersulfonic acid	15.17	13.98			92		66-155		
8:2-Fluorotelomersulfonic acid	15.33	14.79			96		66-148		
Perfluorobutanoic acid	5.44	6.83			126		74-142		
Perfluorodecanesulfonic acid	5.24	4.83			92		60-135		
Perfluoroheptanesulfonic acid	5.18	5.22			101		64-135		
Perfluorooctanesulfonamide	5.44	4.42			81		65-164		
Perfluoropentanoic acid	5.44	6.41			118		74-134		

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: 19186008

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1094804	98	109	91
1094805	95	106	88
1094806	103	114	92
1094807	96	103	89
1094808	99	107	84
1094809	101	109	86
1094810	94	102	87
1094811	94	105	87
Blank	101	107	88
LCS	95	106	87
LCSD	93	99	90
Limits:	70-130	70-130	70-130

Analysis Name: 7 PFAS Compounds
Batch number: 19189001

*- 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: 07/11/2019 18:49

Group Number: 2052022

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: 19189001

	13C4-PFBA	13C5-PFPeA	13C3-PFHxS	13C2-6:2-FTS	13C8-PFOS	13C2-8:2-FTS
1094804	95	96	85	115	97	122
1094805	82	88	79	97	84	111
1094806	87	105	107	120	89	124
1094807	82	84	83	106	83	95
1094808	88	93	90	110	87	115
1094809	84	105	99	100	89	93
1094810	85	87	91	98	88	99
1094811	84	82	86	96	83	97
Blank	82	87	81	107	80	97
LCS	80	82	92	109	86	106
Limits:	33-123	31-157	34-126	32-170	50-121	27-164

	13C8-PFOSA
1094804	93
1094805	77
1094806	65
1094807	83
1094808	91
1094809	85
1094810	82
1094811	95
Blank	78
LCS	78
Limits:	11-127

*- 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.

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Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191 Group #: 2052022 Sample #: 1094804-11 COC#: 20026

Client: C.T. Male Associates	
Project Name/#: Hoosick Falls WTP	Site ID:
Project Manager: Kirk Moline	P.O. #: 14.4756
Sampler: CB	Quote #: 219169
Phone #: (518)786-7400	For Compliance:
State where sample(s) were collected: NY	Yes ☐ No ☐

Matrix: Sediment ☐ Soil ☐; Water: Ground ☑ Surface ☐ Potable ☐ NPDES ☐; Other: Rinse Water

Analyses Requested / Preservation and Filtration Codes

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Water	Other	Total # of Containers	7 PFCs (EPA 537 mod.)	Z 14 PFCs (EPA 537 ver. 1.1)	Remarks
SGI-LTB02-190702	7/2/19	—	✓				✓	4	✓	✓	
SGI-FTB02-190702	↓	0950	✓				✓	4	✓	✓	
GAC Influent	↓	0930	✓			✓		4	✓	✓	
GAC Midfluent	↓	0932	✓			✓		4	✓	✓	
GAC Effluent	↓	0934	✓			✓		4	✓	✓	
PV-1 25	↓	0955	✓			✓		4	✓	✓	
PV-1 50	↓	0957	✓			✓		4	✓	✓	
PV-1 75	↓	0959	✓			✓		4	✓	✓	

For Lab Use Only
SF#: 303216
SCR#: 239721

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other Z = Trizma

Turnaround Time Requested (TAT) (please check): Standard ☑ RUSH ☐
(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)
Date results are needed:
E-mail address to send RUSH results: K.moline@ctmale.com

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐	TX TRRP - 13	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐		
Type IV (CLP SOW)	☐	ASP Type A	☐		
Type VI (Raw Data Only)	☐	ASP Type B	☑		

EDD Format: EQuIS

If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.

Relinquished by	Date	Time	Received by	Date	Time
Edwin Hernandez	6/27/19	12:25	Cliff Bal-	7/2/19	0700
Cliff Bal-	7/2/19	1400			
			[signature]	7/3/19	1030

Airbill No.:
Relinquished by Commercial Carrier:
UPS ____ FedEx X ____ Other ____

Temperature upon receipt 1.1 °C

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Sample Administration Receipt Documentation Log

Doc Log ID: 253143

Group Number(s): 2052022

Client: C.T. Male Assoc.

Hoosick Falls WWTP

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	07/03/2019 10:30
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	NY		

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 ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	4
Paperwork Enclosed:	Yes	Trip Blank Type:	See Below
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): 2 Unpreserved, 4 Trizma

Unpacked by Nicole Reiff (25684) at 13:15 on 07/03/2019

Samples Chilled Details: Hoosick Falls WWTP

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	DT146	1.1	DT	Wet	Y	Bagged	N

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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.

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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 >= 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.