



## 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: September 13, 2019 12:28

### Project: Hoosick Falls WTP

Account #: 37191  
Group Number: 2062679  
SDG: HOO35  
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
Electronic Copy To	Barr Engineering Company	Attn: Terri Olson

Respectfully Submitted,



Nancy Jean Bornholm  
Principal Specialist

(717) 556-7250

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>
GAC Influent Grab Drinking Water	09/05/2019 09:20	1144411
GAC Midfluent Grab Drinking Water	09/05/2019 09:25	1144412
GAC Effluent Grab Drinking Water	09/05/2019 09:30	1144413
PV-1 25 Grab Drinking Water	09/05/2019 09:50	1144414
PV-1 50 Grab Drinking Water	09/05/2019 09:53	1144415
PV-1 75 Grab Drinking Water	09/05/2019 09:55	1144416
FTB 01-190905 Blank Water	09/05/2019 10:00	1144417
LTB 01-190905 Blank Water	09/05/2019	1144418

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 #: 2062679

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

**C. T. Male Associates**  
**ELLE Sample #:** PW 1144411  
**ELLE Group #:** 2062679  
**Matrix:** Drinking Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 09/06/2019 10:00  
**Collection Date/Time:** 09/05/2019 09:20  
**SDG#:** HOO35-01

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>			<b>ng/l</b>	<b>ng/l</b>	
14070	NEtFOSAA <sup>1</sup> NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	1.8 U	1.8	1
14070	NMeFOSAA <sup>1</sup> NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	1.8 U	1.8	1
14070	Perfluorobutanesulfonic acid <sup>1</sup>	375-73-5	1.8 U	1.8	1
14070	Perfluorodecanoic acid <sup>1</sup>	335-76-2	1.8 U	1.8	1
14070	Perfluorododecanoic acid <sup>1</sup>	307-55-1	1.8 U	1.8	1
14070	<b>Perfluoroheptanoic acid<sup>1</sup></b>	375-85-9	<b>14</b>	1.8	1
14070	Perfluorohexanesulfonic acid <sup>1</sup>	355-46-4	1.8 U	1.8	1
14070	<b>Perfluorohexanoic acid<sup>1</sup></b>	307-24-4	<b>14</b>	1.8	1
14070	Perfluorononanoic acid <sup>1</sup>	375-95-1	1.8 U	1.8	1
14070	<b>Perfluorooctanesulfonic acid<sup>1</sup></b>	1763-23-1	<b>3.4</b>	1.8	1
14070	<b>Perfluorooctanoic acid<sup>1</sup></b>	335-67-1	<b>530</b>	18	10
14070	Perfluorotetradecanoic acid <sup>1</sup>	376-06-7	1.8 U	1.8	1
14070	Perfluorotridecanoic acid <sup>1</sup>	72629-94-8	1.8 U	1.8	1
14070	Perfluoroundecanoic acid <sup>1</sup>	2058-94-8	1.8 U	1.8	1

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>					<b>ng/l</b>	<b>ng/l</b>	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.3 U	4.3	1		
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.6 U	2.6	1		
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	6.0 U	6.0	1		
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.7 U	1.7	1		
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.7 U	1.7	1		
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.7 U	1.7	1		
14473	<b>Perfluoropentanoic acid<sup>1</sup></b>	2706-90-3	<b>4.6</b>	1.7	1		

### Sample Comments

<sup>1</sup> = 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	19249019	09/11/2019 00:28	Marissa C Drexinger	1
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19249019	09/11/2019 23:59	Marissa C Drexinger	10
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 19:19	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1

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

**C. T. Male Associates**  
ELLE Sample #: PW 1144412  
ELLE Group #: 2062679  
Matrix: Drinking Water

**Project Name:** Hoosick Falls WTP

Submittal Date/Time: 09/06/2019 10:00  
Collection Date/Time: 09/05/2019 09:25  
SDG#: HOO35-02

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>			<b>ng/l</b>	<b>ng/l</b>	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.5 U	4.5	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.7 U	2.7	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	6.4 U	6.4	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.8 U	1.8	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	1.8 U	1.8	1

### Sample Comments

<sup>1</sup> = 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	19249019	09/10/2019 22:44	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 19:28	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1

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

**C. T. Male Associates**  
ELLE Sample #: PW 1144413  
ELLE Group #: 2062679  
Matrix: Drinking Water

**Project Name:** Hoosick Falls WTP

Submittal Date/Time: 09/06/2019 10:00  
Collection Date/Time: 09/05/2019 09:30  
SDG#: HOO35-03

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>			<b>ng/l</b>	<b>ng/l</b>	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.5 U	4.5	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.7 U	2.7	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	6.2 U	6.2	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.8 U	1.8	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	1.8 U	1.8	1

### Sample Comments

<sup>1</sup> = 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	19249019	09/11/2019 00:40	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 19:37	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1

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

**C. T. Male Associates**  
**ELLE Sample #:** PW 1144414  
**ELLE Group #:** 2062679  
**Matrix:** Drinking Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 09/06/2019 10:00  
**Collection Date/Time:** 09/05/2019 09:50  
**SDG#:** HOO35-04

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>					
			ng/l	ng/l	
14070	NEtFOSAA <sup>1</sup> NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	1.8 U	1.8	1
14070	NMeFOSAA <sup>1</sup> NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	1.8 U	1.8	1
14070	Perfluorobutanesulfonic acid <sup>1</sup>	375-73-5	1.8 U	1.8	1
14070	Perfluorodecanoic acid <sup>1</sup>	335-76-2	1.8 U	1.8	1
14070	Perfluorododecanoic acid <sup>1</sup>	307-55-1	1.8 U	1.8	1
14070	<b>Perfluoroheptanoic acid<sup>1</sup></b>	375-85-9	<b>4.7</b>	1.8	1
14070	Perfluorohexanesulfonic acid <sup>1</sup>	355-46-4	1.8 U	1.8	1
14070	<b>Perfluorohexanoic acid<sup>1</sup></b>	307-24-4	<b>7.6</b>	1.8	1
14070	Perfluorononanoic acid <sup>1</sup>	375-95-1	1.8 U	1.8	1
14070	Perfluorooctanesulfonic acid <sup>1</sup>	1763-23-1	1.8 U	1.8	1
14070	<b>Perfluorooctanoic acid<sup>1</sup></b>	335-67-1	<b>93</b>	18	10
14070	Perfluorotetradecanoic acid <sup>1</sup>	376-06-7	1.8 U	1.8	1
14070	Perfluorotridecanoic acid <sup>1</sup>	72629-94-8	1.8 U	1.8	1
14070	Perfluoroundecanoic acid <sup>1</sup>	2058-94-8	1.8 U	1.8	1

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>					
			ng/l	ng/l	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.4 U	4.4	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.7 U	2.7	1
14473	<b>Perfluorobutanoic acid<sup>1</sup></b>	375-22-4	<b>8.1</b>	6.2	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.8 U	1.8	1
14473	<b>Perfluoropentanoic acid<sup>1</sup></b>	2706-90-3	<b>4.3</b>	1.8	1

### Sample Comments

<sup>1</sup> = 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	19249019	09/11/2019 00:51	Marissa C Drexinger	1
14070	14 PFAS Drinking Water List	EPA 537 Version 1.1	1	19249019	09/12/2019 00:10	Marissa C Drexinger	10
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 19:46	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1

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

**C. T. Male Associates**  
**ELLE Sample #:** PW 1144415  
**ELLE Group #:** 2062679  
**Matrix:** Drinking Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 09/06/2019 10:00  
**Collection Date/Time:** 09/05/2019 09:53  
**SDG#:** HOO35-05

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>			<b>ng/l</b>	<b>ng/l</b>	
14070	NEtFOSAA <sup>1</sup> NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	1.8 U	1.8	1
14070	NMeFOSAA <sup>1</sup> NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	1.8 U	1.8	1
14070	Perfluorobutanesulfonic acid <sup>1</sup>	375-73-5	1.8 U	1.8	1
14070	Perfluorodecanoic acid <sup>1</sup>	335-76-2	1.8 U	1.8	1
14070	Perfluorododecanoic acid <sup>1</sup>	307-55-1	1.8 U	1.8	1
14070	Perfluoroheptanoic acid <sup>1</sup>	375-85-9	1.8 U	1.8	1
14070	Perfluorohexanesulfonic acid <sup>1</sup>	355-46-4	1.8 U	1.8	1
14070	<b>Perfluorohexanoic acid<sup>1</sup></b>	307-24-4	<b>2.4</b>	1.8	1
14070	Perfluorononanoic acid <sup>1</sup>	375-95-1	1.8 U	1.8	1
14070	Perfluorooctanesulfonic acid <sup>1</sup>	1763-23-1	1.8 U	1.8	1
14070	<b>Perfluorooctanoic acid<sup>1</sup></b>	335-67-1	<b>3.3</b>	1.8	1
14070	Perfluorotetradecanoic acid <sup>1</sup>	376-06-7	1.8 U	1.8	1
14070	Perfluorotridecanoic acid <sup>1</sup>	72629-94-8	1.8 U	1.8	1
14070	Perfluoroundecanoic acid <sup>1</sup>	2058-94-8	1.8 U	1.8	1

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>			<b>ng/l</b>	<b>ng/l</b>	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.4 U	4.4	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.6 U	2.6	1
14473	<b>Perfluorobutanoic acid<sup>1</sup></b>	375-22-4	<b>9.8</b>	6.1	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.7 U	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.7 U	1.7	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.7 U	1.7	1
14473	<b>Perfluoropentanoic acid<sup>1</sup></b>	2706-90-3	<b>3.1</b>	1.7	1

### Sample Comments

<sup>1</sup> = 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	19249019	09/11/2019 01:03	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 19:56	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1



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

**C. T. Male Associates**  
**ELLE Sample #:** PW 1144416  
**ELLE Group #:** 2062679  
**Matrix:** Drinking Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 09/06/2019 10:00  
**Collection Date/Time:** 09/05/2019 09:55  
**SDG#:** HOO35-06

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>			<b>ng/l</b>	<b>ng/l</b>	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.4 U	4.4	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.6 U	2.6	1
14473	<b>Perfluorobutanoic acid<sup>1</sup></b>	375-22-4	<b>11</b>	6.2	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.8 U	1.8	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.8 U	1.8	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.8 U	1.8	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	1.8 U	1.8	1

### Sample Comments

<sup>1</sup> = 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	19249019	09/11/2019 01:14	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 20:14	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1

**Sample Description:** FTB 01-190905 Blank Water  
Hoosick Falls Water Treatment Plant

**C. T. Male Associates**  
**ELLE Sample #:** PW 1144417  
**ELLE Group #:** 2062679  
**Matrix:** Blank Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 09/06/2019 10:00  
**Collection Date/Time:** 09/05/2019 10:00  
**SDG#:** HOO35-07FB

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>			<b>ng/l</b>	<b>ng/l</b>	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.3 U	4.3	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.6 U	2.6	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	6.1 U	6.1	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.7 U	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.7 U	1.7	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.7 U	1.7	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	1.7 U	1.7	1

### Sample Comments

<sup>1</sup> = 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	19249019	09/11/2019 01:26	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 20:23	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1

**Sample Description:** LTB 01-190905 Blank Water  
Hoosick Falls Water Treatment Plant

**C. T. Male Associates**  
ELLE Sample #: PW 1144418  
ELLE Group #: 2062679  
Matrix: Blank Water

**Project Name:** Hoosick Falls WTP

Submittal Date/Time: 09/06/2019 10:00  
Collection Date/Time: 09/05/2019  
SDG#: HOO35-08TB

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

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b>			<b>ng/l</b>	<b>ng/l</b>	
14473	6:2-Fluorotelomersulfonic acid <sup>1</sup>	27619-97-2	4.3 U	4.3	1
14473	8:2-Fluorotelomersulfonic acid <sup>1</sup>	39108-34-4	2.6 U	2.6	1
14473	Perfluorobutanoic acid <sup>1</sup>	375-22-4	6.1 U	6.1	1
14473	Perfluorodecanesulfonic acid <sup>1</sup>	335-77-3	1.7 U	1.7	1
14473	Perfluoroheptanesulfonic acid <sup>1</sup>	375-92-8	1.7 U	1.7	1
14473	Perfluorooctanesulfonamide <sup>1</sup>	754-91-6	1.7 U	1.7	1
14473	Perfluoropentanoic acid <sup>1</sup>	2706-90-3	1.7 U	1.7	1

### Sample Comments

<sup>1</sup> = 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	19249019	09/11/2019 01:37	Marissa C Drexinger	1
14473	7 PFAS Compounds	EPA 537 Version 1.1 Modified	1	19252014	09/10/2019 20:32	Christine E Dolman	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19249019	09/09/2019 17:00	Anthony C Polaski	1
14091	PFAS Water Prep	EPA 537 Version 1.1 Modified	1	19252014	09/09/2019 15:30	Danielle D McCully	1

## Quality Control Summary

Client Name: C. T. Male Associates  
Reported: 09/13/2019 12:28

Group Number: 2062679

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: 19249019	Sample number(s): 1144411-1144418	
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: 19252014	Sample number(s): 1144411-1144418	
6:2-Fluorotelomersulfonic acid	5.0 U	5.0
8:2-Fluorotelomersulfonic acid	3.0 U	3.0
Perfluorobutanoic acid	5.0 U	5.0
Perfluorodecanesulfonic acid	2.0 U	2.0
Perfluoroheptanesulfonic acid	2.0 U	2.0
Perfluorooctanesulfonamide	2.0 U	2.0
Perfluoropentanoic acid	2.0 U	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: 19249019	Sample number(s): 1144411-1144418								
NEtFOSAA	20.48	16.4	20.48	17.76	80	87	70-130	8	30
NMeFOSAA	20.48	17.15	20.48	18.29	84	89	70-130	6	30
Perfluorobutanesulfonic acid	18.12	16.06	18.12	17.15	89	95	70-130	7	30
Perfluorodecanoic acid	20.48	17.99	20.48	18.02	88	88	70-130	0	30
Perfluorododecanoic acid	20.48	16.45	20.48	16.81	80	82	70-130	2	30
Perfluoroheptanoic acid	20.48	18.3	20.48	18.22	89	89	70-130	0	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: 09/13/2019 12:28

Group Number: 2062679

### 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	18.68	16.69	18.68	17.68	89	95	70-130	6	30
Perfluorohexanoic acid	20.48	18.2	20.48	18.47	89	90	70-130	1	30
Perfluorononanoic acid	20.48	18.37	20.48	18.45	90	90	70-130	0	30
Perfluorooctanesulfonic acid	18.96	16.86	18.96	17.51	89	92	70-130	4	30
Perfluorooctanoic acid	20.48	17.78	20.48	19.03	87	93	70-130	7	30
Perfluorotetradecanoic acid	20.48	17.79	20.48	18.08	87	88	70-130	2	30
Perfluorotridecanoic acid	20.48	17.42	20.48	17.37	85	85	70-130	0	30
Perfluoroundecanoic acid	20.48	18.2	20.48	18.11	89	88	70-130	0	30
Batch number: 19252014	Sample number(s): 1144411-1144418								
6:2-Fluorotelomersulfonic acid	15.17	13.6			90		56-140		
8:2-Fluorotelomersulfonic acid	15.33	13.58			89		58-143		
Perfluorobutanoic acid	5.44	5.85			107		63-160		
Perfluorodecanesulfonic acid	5.24	5.48			105		62-135		
Perfluoroheptanesulfonic acid	5.18	5.29			102		67-138		
Perfluorooctanesulfonamide	5.44	4.70			86		67-126		
Perfluoropentanoic acid	5.44	5.93			109		73-135		

### 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: 19249019

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1144411	107	108	98
1144412	107	107	97
1144413	105	101	100
1144414	101	101	96
1144415	102	95	89
1144416	102	98	101
1144417	90	94	74
1144418	104	102	99
Blank	98	99	103
LCS	93	100	86
LCSD	98	102	95
Limits:	70-130	70-130	70-130

Analysis Name: 7 PFAS Compounds  
Batch number: 19252014

\*- 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: 09/13/2019 12:28

Group Number: 2062679

### 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: 19252014

	13C4-PFBA	13C5-PFPeA	13C3-PFHxS	13C2-6:2-FTS	13C8-PFOS	13C2-8:2-FTS
1144411	96	108	109	99	98	125
1144412	88	87	70	111	90	128
1144413	98	97	91	135	95	128
1144414	95	94	92	117	95	122
1144415	89	85	79	123	94	129
1144416	93	88	87	115	96	133
1144417	97	91	60	96	90	131
1144418	82	79	71	103	81	115
Blank	104	102	95	125	108	144
LCS	96	93	81	117	93	124

Limits: 43-130      38-150      35-143      29-182      52-121      37-169

#### 13C8-PFOSA

1144411	57
1144412	59
1144413	67
1144414	83
1144415	63
1144416	55
1144417	85
1144418	79
Blank	94
LCS	85

Limits: 10-134

\*- 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 #: 2062679

Sample #: 114411-8

COC#: 20029

Client: <b>C.T. Male Associates</b>		Project Name/#: Hoosick Falls WTP		Site ID:		<b>Matrix</b> <input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Water Other: <i>Reserve water</i>		Analyses Requested										For Lab Use Only				
Project Manager: Kirk Moline		Project Manager: Kirk Moline		P.O. #: 14.4756				Preservation and Filtration Codes										SF#: 303216				
Sampler: <i>Chris Ormby</i>		Quote #: 219169		For Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>		Total # of Containers 7 PFAS (EPA 537 mod.) 14 PFAS (EPA 537 ver. 1.1)												SCR#: 242884				
Phone #: (518) 786-7400		State where sample(s) were collected: NY																Preservation Codes H = HCl    T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> O = Other    Z = Trizma				
Sample Identification		Date	Time	Grab	Composite	Soil	Water	Other											Remarks			
<i>GAC Influent</i>		<i>9/5/19</i>	<i>0920</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<i>2 Trizma + 2 non-Trizma</i>
<i>GAC Midfluent</i>			<i>0925</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<i>GAC Effluent</i>			<i>0936</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>8</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<i>PFAS <sup>March</sup> QC</i>
<i>PV-1 25</i>			<i>0950</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>0953</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>0955</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<i>FTB 01-190965</i>			<i>1000</i>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<i>LTB 01-190905</i>			<i>-</i>					<input checked="" type="checkbox"/>	<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<b>Turnaround Time Requested (TAT)</b> (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>Amanda Demore</i>		Date: <i>8/29/19</i>		Time: <i>1126</i>		Received by: <i>Christina...</i>		Date: <i>9/5/19</i>		Time: <i>0736</i>								
Date results are needed: <i>3 Day TAT</i>		E-mail address to send RUSH results: <i>K. Moline@ctmale.com</i>		Relinquished by: <i>Christina...</i>		Date: <i>9/5/19</i>		Time: <i>1125</i>		Received by:		Date:		Time:								
<b>Data Package Options</b> (please check if required)		Type I (Validation/non-CLP) <input type="checkbox"/>		MA MCP <input type="checkbox"/>		TX TRRP - 13 <input type="checkbox"/>		Type III (Reduced non-CLP) <input type="checkbox"/>		CT RCP <input type="checkbox"/>		Type IV (CLP SOW) <input type="checkbox"/>		ASP Type A <input type="checkbox"/>		Type VI (Raw Data Only) <input type="checkbox"/>		ASP Type B <input checked="" type="checkbox"/>				
EDD Format: <i>EQUIS</i>		Airbill No.:		Relinquished by: <i>[Signature]</i>		Date: <i>9-6-19</i>		Time: <i>10:00</i>		Received by: <i>[Signature]</i>		Date:		Time:								
If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.		UPS <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> Other <input type="checkbox"/>		Temperature upon receipt: <i>1.0</i> °C																		



Client: C.T.MALE ASSOCIATES

**Delivery and Receipt Information**

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>09/06/2019 10:00</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	Total Trip Blank Qty:	4
Samples Chilled:	Yes	Trip Blank Type:	See Below
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Trip Blank Type(s): ( 2 ) UNP ( 2 ) TRIZMA

*Unpacked by Jessenia Colon Martinez (30 856) at 11:52 on 09/06/2019*

**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	DT42-01	1.0	DT	Wet	Y	Bagged	N



# Explanation of Symbols and Abbreviations

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

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

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

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

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

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

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# Data Qualifiers

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

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