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ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-56678-1
Laboratory Sample Delivery Group: HOO
Client Project/Site: Hoosick Falls WTP

For:
CT Male Associates DPC
50 Century Hill Dr
Latham, New York 12110

Attn: Mr. Kirk Moline

Authorized for release by:
10/6/2021 7:32:38 AM

Paul Hobart, Project Manager
(617)312-8660
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Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

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

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Paul Hobart
Project Manager
10/6/2021 7:32:38 AM

Table of Contents

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Job ID: 410-56678-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-56678-1

Receipt
The samples were received on 9/25/2021 10:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C

PFAS
Method PFC_IDA: The recovery for the labeled isotope(s) in the following samples: FTB01-210924 (410-56678-2) and LTB01-210924 (410-56678-3) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the sample, the data is reported.

Method PFC_IDA: The LCS/LCSD labeled isotope(s) recovery associated with samples: GAC MIDFLUENT (410-56678-1), FTB01-210924 (410-56678-2) and LTB01-210924 (410-56678-3) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

Method PFC_IDA: The recovery for the labeled isotope(s) in the method blank associate for the following samples: GAC MIDFLUENT (410-56678-1), FTB01-210924 (410-56678-2) and LTB01-210924 (410-56678-3) is outside the QC acceptance limits. Since the recovery is high and the native analyte is not detected in the method blank, the data is reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Client Sample ID: GAC MIDFLUENT — Lab Sample ID: 410-56678-1

No Detections.

Client Sample ID: FTB01-210924 — Lab Sample ID: 410-56678-2

No Detections.

Client Sample ID: LTB01-210924 — Lab Sample ID: 410-56678-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: GAC MIDFLUENT

Date Collected: 09/24/21 09:35
Date Received: 09/25/21 10:26

Lab Sample ID: 410-56678-1

Matrix: Water

Method: 537 (Mod) - EPA 537 Version 1.1 modified

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	4.3	U	4.3		ng/L		09/29/21 18:51	10/01/21 05:02	1
8:2 Fluorotelomer sulfonic acid	2.6	U	2.6		ng/L		09/29/21 18:51	10/01/21 05:02	1
Perfluorobutanoic acid	4.3	U	4.3		ng/L		09/29/21 18:51	10/01/21 05:02	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:02	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:02	1
Perfluorooctanesulfonamide	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:02	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:02	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*131*		*29 - 189*	*09/29/21 18:51*	*10/01/21 05:02*	*1*
M2-8:2 FTS	*132*		*34 - 182*	*09/29/21 18:51*	*10/01/21 05:02*	*1*
13C4 PFBA	*119*		*41 - 132*	*09/29/21 18:51*	*10/01/21 05:02*	*1*
13C5 PFPeA	*123*		*33 - 155*	*09/29/21 18:51*	*10/01/21 05:02*	*1*
13C8 PFOS	*122*		*49 - 126*	*09/29/21 18:51*	*10/01/21 05:02*	*1*
13C8 FOSA	*112*		*10 - 143*	*09/29/21 18:51*	*10/01/21 05:02*	*1*
13C3 PFHxS	*132*		*32 - 145*	*09/29/21 18:51*	*10/01/21 05:02*	*1*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
NEtFOSAA	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
NMeFOSAA	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		10/03/21 16:59	10/05/21 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:32*	*1*
13C2 PFDA	*114*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:32*	*1*
13C2 PFHxA	*114*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:32*	*1*

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Client Sample ID: FTB01-210924
Date Collected: 09/24/21 09:40
Date Received: 09/25/21 10:26

Lab Sample ID: 410-56678-2
Matrix: Water

Method: 537 (Mod) - EPA 537 Version 1.1 modified

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	4.4	U	4.4		ng/L		09/29/21 18:51	10/01/21 05:14	1
8:2 Fluorotelomer sulfonic acid	2.6	U	2.6		ng/L		09/29/21 18:51	10/01/21 05:14	1
Perfluorobutanoic acid	4.4	U	4.4		ng/L		09/29/21 18:51	10/01/21 05:14	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:14	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:14	1
Perfluorooctanesulfonamide	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:14	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		09/29/21 18:51	10/01/21 05:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*141*		*29 - 189*	*09/29/21 18:51*	*10/01/21 05:14*	*1*
M2-8:2 FTS	*145*		*34 - 182*	*09/29/21 18:51*	*10/01/21 05:14*	*1*
13C4 PFBA	*128*		*41 - 132*	*09/29/21 18:51*	*10/01/21 05:14*	*1*
13C5 PFPeA	*135*		*33 - 155*	*09/29/21 18:51*	*10/01/21 05:14*	*1*
13C8 PFOS	*135*	*5+	*49 - 126*	*09/29/21 18:51*	*10/01/21 05:14*	*1*
13C8 FOSA	*115*		*10 - 143*	*09/29/21 18:51*	*10/01/21 05:14*	*1*
13C3 PFHxS	*138*		*32 - 145*	*09/29/21 18:51*	*10/01/21 05:14*	*1*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluoroheptanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorooctanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorononanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorodecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorotridecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorotetradecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorobutanesulfonic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorohexanesulfonic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorooctanesulfonic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
NEtFOSAA	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
NMeFOSAA	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluoroundecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1
Perfluorododecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:44*	*1*
13C2 PFDA	*111*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:44*	*1*
13C2 PFHxA	*109*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:44*	*1*

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Client Sample ID: LTB01-210924
Date Collected: 09/24/21 00:00
Date Received: 09/25/21 10:26

Lab Sample ID: 410-56678-3
Matrix: Water

Method: 537 (Mod) - EPA 537 Version 1.1 modified

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	4.7	U	4.7		ng/L		09/29/21 18:51	10/01/21 05:25	1
8:2 Fluorotelomer sulfonic acid	2.8	U	2.8		ng/L		09/29/21 18:51	10/01/21 05:25	1
Perfluorobutanoic acid	4.7	U	4.7		ng/L		09/29/21 18:51	10/01/21 05:25	1
Perfluorodecanesulfonic acid	1.9	U	1.9		ng/L		09/29/21 18:51	10/01/21 05:25	1
Perfluoroheptanesulfonic acid	1.9	U	1.9		ng/L		09/29/21 18:51	10/01/21 05:25	1
Perfluorooctanesulfonamide	1.9	U	1.9		ng/L		09/29/21 18:51	10/01/21 05:25	1
Perfluoropentanoic acid	1.9	U	1.9		ng/L		09/29/21 18:51	10/01/21 05:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*141*		*29 - 189*	*09/29/21 18:51*	*10/01/21 05:25*	*1*
M2-8:2 FTS	*150*		*34 - 182*	*09/29/21 18:51*	*10/01/21 05:25*	*1*
13C4 PFBA	*129*		*41 - 132*	*09/29/21 18:51*	*10/01/21 05:25*	*1*
13C5 PFPeA	*134*		*33 - 155*	*09/29/21 18:51*	*10/01/21 05:25*	*1*
13C8 PFOS	*128*	**5+*	*49 - 126*	*09/29/21 18:51*	*10/01/21 05:25*	*1*
13C8 FOSA	*104*		*10 - 143*	*09/29/21 18:51*	*10/01/21 05:25*	*1*
13C3 PFHxS	*147*	**5+*	*32 - 145*	*09/29/21 18:51*	*10/01/21 05:25*	*1*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluoroheptanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorooctanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorononanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorodecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorotridecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorotetradecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorobutanesulfonic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorohexanesulfonic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorooctanesulfonic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
NEtFOSAA	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
NMeFOSAA	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluoroundecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1
Perfluorododecanoic acid	1.9	U	1.9		ng/L		10/03/21 16:59	10/05/21 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*82*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:55*	*1*
13C2 PFDA	*111*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:55*	*1*
13C2 PFHxA	*111*		*70 - 130*	*10/03/21 16:59*	*10/05/21 14:55*	*1*

Surrogate Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
		d5NEFOS	PFDA	PFHxA						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)						
410-56678-1	GAC MIDFLUENT	92	114	114						
410-56678-2	FTB01-210924	98	111	109						
410-56678-3	LTB01-210924	82	111	111						
LCS 410-178224/2-A	Lab Control Sample	106	114	111						
LCSD 410-178224/3-A	Lab Control Sample Dup	102	104	107						
MB 410-178224/1-A	Method Blank	104	110	112						

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFDA = 13C2 PFDA

PFHxA = 13C2 PFHxA

Isotope Dilution Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Method: 537 (Mod) - EPA 537 Version 1.1 modified

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		M262FTS	M282FTS	PFBA	PFPeA	C8PFOS	PFOSA	C3PFHS
Lab Sample ID	Client Sample ID	(29-189)	(34-182)	(41-132)	(33-155)	(49-126)	(10-143)	(32-145)
410-56678-1	GAC MIDFLUENT	131	132	119	123	122	112	132
410-56678-2	FTB01-210924	141	145	128	135	135 *5+	115	138
410-56678-3	LTB01-210924	141	150	129	134	128 *5+	104	147 *5+
LCS 410-176949/2-A	Lab Control Sample	127	139	122	126	127 *5+	118	136
MB 410-176949/1-A	Method Blank	129	136	119	124	129 *5+	116	126

Surrogate Legend

M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
C3PFHS = 13C3 PFHxS

Method: 537 (Mod) - EPA 537 Version 1.1 modified

Lab Sample ID: MB 410-176949/1-A
Matrix: Water
Analysis Batch: 177108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 176949

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	5.0	U	5.0		ng/L		09/29/21 18:51	10/01/21 01:43	1
8:2 Fluorotelomer sulfonic acid	3.0	U	3.0		ng/L		09/29/21 18:51	10/01/21 01:43	1
Perfluorobutanoic acid	5.0	U	5.0		ng/L		09/29/21 18:51	10/01/21 01:43	1
Perfluorodecanesulfonic acid	2.0	U	2.0		ng/L		09/29/21 18:51	10/01/21 01:43	1
Perfluoroheptanesulfonic acid	2.0	U	2.0		ng/L		09/29/21 18:51	10/01/21 01:43	1
Perfluorooctanesulfonamide	2.0	U	2.0		ng/L		09/29/21 18:51	10/01/21 01:43	1
Perfluoropentanoic acid	2.0	U	2.0		ng/L		09/29/21 18:51	10/01/21 01:43	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*129*		*29 - 189*	*09/29/21 18:51*	*10/01/21 01:43*	*1*
M2-8:2 FTS	*136*		*34 - 182*	*09/29/21 18:51*	*10/01/21 01:43*	*1*
13C4 PFBA	*119*		*41 - 132*	*09/29/21 18:51*	*10/01/21 01:43*	*1*
13C5 PFPeA	*124*		*33 - 155*	*09/29/21 18:51*	*10/01/21 01:43*	*1*
13C8 PFOS	*129*	**5+*	*49 - 126*	*09/29/21 18:51*	*10/01/21 01:43*	*1*
13C8 FOSA	*116*		*10 - 143*	*09/29/21 18:51*	*10/01/21 01:43*	*1*
13C3 PFHxS	*126*		*32 - 145*	*09/29/21 18:51*	*10/01/21 01:43*	*1*

Lab Sample ID: LCS 410-176949/2-A
Matrix: Water
Analysis Batch: 177108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 176949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
6:2 Fluorotelomer sulfonic acid			24.3	24.9		ng/L		103	57 - 137		
8:2 Fluorotelomer sulfonic acid			24.5	21.2		ng/L		86	56 - 140		
Perfluorobutanoic acid			25.6	23.3		ng/L		91	62 - 156		
Perfluorodecanesulfonic acid			24.7	22.3		ng/L		91	61 - 134		
Perfluoroheptanesulfonic acid			24.4	24.7		ng/L		101	67 - 135		
Perfluorooctanesulfonamide			25.6	23.9		ng/L		93	55 - 130		
Perfluoropentanoic acid			25.6	26.8		ng/L		105	72 - 139		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*127*		*29 - 189*
M2-8:2 FTS	*139*		*34 - 182*
13C4 PFBA	*122*		*41 - 132*
13C5 PFPeA	*126*		*33 - 155*
13C8 PFOS	*127*	**5+*	*49 - 126*
13C8 FOSA	*118*		*10 - 143*
13C3 PFHxS	*136*		*32 - 145*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MB 410-178224/1-A
Matrix: Water
Analysis Batch: 178883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178224

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluoroheptanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorooctanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MB 410-178224/1-A
Matrix: Water
Analysis Batch: 178883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 178224

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorodecanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorotridecanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorotetradecanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorobutanesulfonic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorohexanesulfonic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorooctanesulfonic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
NEtFOSAA	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
NMeFOSAA	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluoroundecanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1
Perfluorododecanoic acid	2.0	U	2.0		ng/L		10/03/21 16:59	10/05/21 12:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*104*		*70 - 130*	*10/03/21 16:59*	*10/05/21 12:48*	*1*
13C2 PFDA	*110*		*70 - 130*	*10/03/21 16:59*	*10/05/21 12:48*	*1*
13C2 PFHxA	*112*		*70 - 130*	*10/03/21 16:59*	*10/05/21 12:48*	*1*

Lab Sample ID: LCS 410-178224/2-A
Matrix: Water
Analysis Batch: 178883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 178224

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	22.1		ng/L		108	70 - 130		
Perfluoroheptanoic acid			20.5	21.5		ng/L		105	70 - 130		
Perfluorooctanoic acid			20.5	22.6		ng/L		110	70 - 130		
Perfluorononanoic acid			20.5	21.9		ng/L		107	70 - 130		
Perfluorodecanoic acid			20.5	21.9		ng/L		107	70 - 130		
Perfluorotridecanoic acid			20.5	20.9		ng/L		102	70 - 130		
Perfluorotetradecanoic acid			20.5	21.3		ng/L		104	70 - 130		
Perfluorobutanesulfonic acid			18.1	20.9		ng/L		115	70 - 130		
Perfluorohexanesulfonic acid			18.7	20.5		ng/L		110	70 - 130		
Perfluorooctanesulfonic acid			19.0	22.2		ng/L		117	70 - 130		
NEtFOSAA			20.5	23.2		ng/L		114	70 - 130		
NMeFOSAA			20.5	21.9		ng/L		107	70 - 130		
Perfluoroundecanoic acid			20.5	21.7		ng/L		106	70 - 130		
Perfluorododecanoic acid			20.5	21.4		ng/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*106*		*70 - 130*
13C2 PFDA	*114*		*70 - 130*
13C2 PFHxA	*111*		*70 - 130*

Lab Sample ID: LCSD 410-178224/3-A
Matrix: Water
Analysis Batch: 178883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178224

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	22.1		ng/L		108	70 - 130	0	30

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 410-178224/3-A
Matrix: Water
Analysis Batch: 178883

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 178224

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroheptanoic acid			20.5	22.1		ng/L		108	70 - 130	3	30
Perfluorooctanoic acid			20.5	23.3		ng/L		114	70 - 130	3	30
Perfluorononanoic acid			20.5	22.9		ng/L		112	70 - 130	4	30
Perfluorodecanoic acid			20.5	23.3		ng/L		114	70 - 130	6	30
Perfluorotridecanoic acid			20.5	21.4		ng/L		104	70 - 130	2	30
Perfluorotetradecanoic acid			20.5	21.4		ng/L		104	70 - 130	0	30
Perfluorobutanesulfonic acid			18.1	20.4		ng/L		112	70 - 130	2	30
Perfluorohexanesulfonic acid			18.7	20.6		ng/L		111	70 - 130	1	30
Perfluorooctanesulfonic acid			19.0	21.0		ng/L		111	70 - 130	6	30
NEtFOSAA			20.5	24.5		ng/L		120	70 - 130	5	30
NMeFOSAA			20.5	22.2		ng/L		109	70 - 130	2	30
Perfluoroundecanoic acid			20.5	21.7		ng/L		106	70 - 130	0	30
Perfluorododecanoic acid			20.5	24.1		ng/L		117	70 - 130	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*102*		*70 - 130*
13C2 PFDA	*104*		*70 - 130*
13C2 PFHxA	*107*		*70 - 130*

LCMS

Prep Batch: 176949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56678-1	GAC MIDFLUENT	Total/NA	Water	537 (Mod)	
410-56678-2	FTB01-210924	Total/NA	Water	537 (Mod)	
410-56678-3	LTB01-210924	Total/NA	Water	537 (Mod)	
MB 410-176949/1-A	Method Blank	Total/NA	Water	537 (Mod)	
LCS 410-176949/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	

Analysis Batch: 177108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56678-1	GAC MIDFLUENT	Total/NA	Water	537 (Mod)	176949
410-56678-2	FTB01-210924	Total/NA	Water	537 (Mod)	176949
410-56678-3	LTB01-210924	Total/NA	Water	537 (Mod)	176949
MB 410-176949/1-A	Method Blank	Total/NA	Water	537 (Mod)	176949
LCS 410-176949/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	176949

Prep Batch: 178224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56678-1	GAC MIDFLUENT	Total/NA	Water	537 DW	
410-56678-2	FTB01-210924	Total/NA	Water	537 DW	
410-56678-3	LTB01-210924	Total/NA	Water	537 DW	
MB 410-178224/1-A	Method Blank	Total/NA	Water	537 DW	
LCS 410-178224/2-A	Lab Control Sample	Total/NA	Water	537 DW	
LCSD 410-178224/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	

Analysis Batch: 178883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-56678-1	GAC MIDFLUENT	Total/NA	Water	537 DW	178224
410-56678-2	FTB01-210924	Total/NA	Water	537 DW	178224
410-56678-3	LTB01-210924	Total/NA	Water	537 DW	178224
MB 410-178224/1-A	Method Blank	Total/NA	Water	537 DW	178224
LCS 410-178224/2-A	Lab Control Sample	Total/NA	Water	537 DW	178224
LCSD 410-178224/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	178224

Lab Chronicle

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Client Sample ID: GAC MIDFLUENT

Lab Sample ID: 410-56678-1

Date Collected: 09/24/21 09:35
Matrix: Water
Date Received: 09/25/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			176949	09/29/21 18:51	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	177108	10/01/21 05:02	ZG8V	ELLE
Total/NA	Prep	537 DW			178224	10/03/21 16:59	AX9M	ELLE
Total/NA	Analysis	537 DW		1	178883	10/05/21 14:32	DCS9	ELLE

Client Sample ID: FTB01-210924

Lab Sample ID: 410-56678-2

Date Collected: 09/24/21 09:40
Matrix: Water
Date Received: 09/25/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			176949	09/29/21 18:51	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	177108	10/01/21 05:14	ZG8V	ELLE
Total/NA	Prep	537 DW			178224	10/03/21 16:59	AX9M	ELLE
Total/NA	Analysis	537 DW		1	178883	10/05/21 14:44	DCS9	ELLE

Client Sample ID: LTB01-210924

Lab Sample ID: 410-56678-3

Date Collected: 09/24/21 00:00
Matrix: Water
Date Received: 09/25/21 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			176949	09/29/21 18:51	ZWK6	ELLE
Total/NA	Analysis	537 (Mod)		1	177108	10/01/21 05:25	ZG8V	ELLE
Total/NA	Prep	537 DW			178224	10/03/21 16:59	AX9M	ELLE
Total/NA	Analysis	537 DW		1	178883	10/05/21 14:55	DCS9	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (Mod)	537 (Mod)	Water	6:2 Fluorotelomer sulfonic acid
537 (Mod)	537 (Mod)	Water	8:2 Fluorotelomer sulfonic acid
537 (Mod)	537 (Mod)	Water	Perfluorobutanoic acid
537 (Mod)	537 (Mod)	Water	Perfluorodecanesulfonic acid
537 (Mod)	537 (Mod)	Water	Perfluoroheptanesulfonic acid
537 (Mod)	537 (Mod)	Water	Perfluorooctanesulfonamide
537 (Mod)	537 (Mod)	Water	Perfluoropentanoic acid
537 DW	537 DW	Water	NEtFOSAA
537 DW	537 DW	Water	NMeFOSAA
537 DW	537 DW	Water	Perfluorobutanesulfonic acid
537 DW	537 DW	Water	Perfluorodecanoic acid
537 DW	537 DW	Water	Perfluorododecanoic acid
537 DW	537 DW	Water	Perfluoroheptanoic acid
537 DW	537 DW	Water	Perfluorohexanesulfonic acid
537 DW	537 DW	Water	Perfluorohexanoic acid
537 DW	537 DW	Water	Perfluorononanoic acid
537 DW	537 DW	Water	Perfluorotetradecanoic acid
537 DW	537 DW	Water	Perfluorotridecanoic acid
537 DW	537 DW	Water	Perfluoroundecanoic acid

Method Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Method	Method Description	Protocol	Laboratory
537 (Mod)	EPA 537 Version 1.1 modified	EPA	ELLE
537 DW	Perfluorinated Alkyl Acids (LC/MS)	EPA	ELLE
537 (Mod)	537 Version 1.1 modified	EPA	ELLE
537 DW	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: CT Male Associates DPC
Project/Site: Hoosick Falls WTP

Job ID: 410-56678-1
SDG: HOO

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-56678-1	GAC MIDFLUENT	Water	09/24/21 09:35	09/25/21 10:26
410-56678-2	FTB01-210924	Water	09/24/21 09:40	09/25/21 10:26
410-56678-3	LTB01-210924	Water	09/24/21 00:00	09/25/21 10:26

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Environmental Analysis Request/Chain of Custody

410-56678 Chain of Custody

Sample # ______

Client: C.T. Male Associates		Matrix	Analyses Requested	For Lab Use Only
Project Name/#: Hoosick Falls WTP 14.4756	Site ID #:		Preservation and Filtration Codes	SF #:
Project Manager: Kirk Moline	P.O. #: 14.4756		Z	SCR #:
Sampler: C. Ormsby	PWSID #:			
Phone #:	Quote #:			
State where samples were collected: NY	For Compliance: Yes ☐ No ☐			

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil / Sediment / Tissue	Water (Potable ☑ / NPDES / Ground / Surface)	Other: Reagent water	Total # of Containers	14 PFAS	7 PFAS								Remarks
GAC MIDFLUENT	9/24/21	0935	X			X		4	X	X								
FTB01-210924	9/24/21	0940	X				X	4	X	X								
LTB01-210924	9/24/21	—					X	4	X	X								

Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address: k.moline@ctmale.com

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☑ B

EDD Required? Yes ☑ No ☐ If yes, format: EQuIS

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/24/21	1115			
			[signature]	9/25/21	1026

Relinquished by Commercial Carrier: UPS ____ FedEx X Other ____

Temperature upon receipt 0.7 °C

AKB

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7045 0717

AP

Login Sample Receipt Checklist

Client: CT Male Associates DPC

Job Number: 410-56678-1
SDG Number: HOO

Login Number: 56678
List Number: 1
Creator: Bauer, Anthony

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	