eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 410-45809-1
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:
7/21/2021 5:07:00 PM

Paul Hobart, Project Manager
(617)312-8660
Paul.Hobart@Eurofinset.com

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.

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

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Paul Hobart
Project Manager
7/21/2021 5:07:00 PM

Table of Contents

Definitions/Glossary

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

Job ID: 410-45809-1
SDG: HOO

Qualifiers

LCMS

Qualifier	Qualifier Description
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

Job ID: 410-45809-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-45809-1

Receipt
The samples were received on 7/2/2021 10:29 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 1.1°C

PFAS
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: 410-45809-1
SDG: HOO

Client Sample ID: GAC Influent — Lab Sample ID: 410-45809-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.4		1.7		ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	3.4		1.7		ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	8.3		1.7		ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid - DL	150		17		ng/L	10		537 DW	Total/NA

Client Sample ID: GAC Midfluent — Lab Sample ID: 410-45809-2

No Detections.

Client Sample ID: GAC Effluent — Lab Sample ID: 410-45809-3

No Detections.

Client Sample ID: LTB01-210701 — Lab Sample ID: 410-45809-4

No Detections.

Client Sample ID: FTB01-210701 — Lab Sample ID: 410-45809-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: GAC Influent

Date Collected: 07/01/21 09:35
Date Received: 07/02/21 10:29

Lab Sample ID: 410-45809-1

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	4.1	U	4.1		ng/L		07/09/21 05:03	07/17/21 01:03	1
8:2 Fluorotelomer sulfonic acid	2.4	U	2.4		ng/L		07/09/21 05:03	07/17/21 01:03	1
Perfluorobutanoic acid	4.1	U	4.1		ng/L		07/09/21 05:03	07/17/21 01:03	1
Perfluorodecanesulfonic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:03	1
Perfluoroheptanesulfonic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:03	1
Perfluorooctanesulfonamide	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:03	1
Perfluoropentanoic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:03	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*144*		*29 - 189*	*07/09/21 05:03*	*07/17/21 01:03*	*1*
M2-8:2 FTS	*129*		*34 - 182*	*07/09/21 05:03*	*07/17/21 01:03*	*1*
13C4 PFBA	*113*		*41 - 132*	*07/09/21 05:03*	*07/17/21 01:03*	*1*
13C5 PFPeA	*120*		*33 - 155*	*07/09/21 05:03*	*07/17/21 01:03*	*1*
13C8 PFOS	*104*		*49 - 126*	*07/09/21 05:03*	*07/17/21 01:03*	*1*
13C8 FOSA	*102*		*10 - 143*	*07/09/21 05:03*	*07/17/21 01:03*	*1*
13C3 PFHxS	*119*		*32 - 145*	*07/09/21 05:03*	*07/17/21 01:03*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**4.4**		1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluoroheptanoic acid	**3.4**		1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorooctanesulfonic acid	**8.3**		1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
NEtFOSAA	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
NMeFOSAA	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		07/07/21 04:46	07/10/21 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*84*		*70 - 130*	*07/07/21 04:46*	*07/10/21 20:43*	*1*
13C2 PFDA	*106*		*70 - 130*	*07/07/21 04:46*	*07/10/21 20:43*	*1*
13C2 PFHxA	*96*		*70 - 130*	*07/07/21 04:46*	*07/10/21 20:43*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid	**150**		17		ng/L		07/07/21 04:46	07/12/21 13:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*85*		*70 - 130*	*07/07/21 04:46*	*07/12/21 13:22*	*10*
13C2 PFDA	*84*		*70 - 130*	*07/07/21 04:46*	*07/12/21 13:22*	*10*
13C2 PFHxA	*84*		*70 - 130*	*07/07/21 04:46*	*07/12/21 13:22*	*10*

Client Sample ID: GAC Midfluent

Date Collected: 07/01/21 09:40
Date Received: 07/02/21 10:29

Lab Sample ID: 410-45809-2

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	4.0	U	4.0		ng/L		07/09/21 05:03	07/17/21 01:14	1
8:2 Fluorotelomer sulfonic acid	2.4	U	2.4		ng/L		07/09/21 05:03	07/17/21 01:14	1
Perfluorobutanoic acid	4.0	U	4.0		ng/L		07/09/21 05:03	07/17/21 01:14	1
Perfluorodecanesulfonic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:14	1
Perfluoroheptanesulfonic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:14	1
Perfluorooctanesulfonamide	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:14	1
Perfluoropentanoic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*138*		*29 - 189*	*07/09/21 05:03*	*07/17/21 01:14*	*1*
M2-8:2 FTS	*123*		*34 - 182*	*07/09/21 05:03*	*07/17/21 01:14*	*1*
13C4 PFBA	*104*		*41 - 132*	*07/09/21 05:03*	*07/17/21 01:14*	*1*
13C5 PFPeA	*112*		*33 - 155*	*07/09/21 05:03*	*07/17/21 01:14*	*1*
13C8 PFOS	*100*		*49 - 126*	*07/09/21 05:03*	*07/17/21 01:14*	*1*
13C8 FOSA	*95*		*10 - 143*	*07/09/21 05:03*	*07/17/21 01:14*	*1*
13C3 PFHxS	*110*		*32 - 145*	*07/09/21 05:03*	*07/17/21 01:14*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluoroheptanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorooctanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorooctanesulfonic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
NEtFOSAA	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
NMeFOSAA	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*100*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:13*	*1*
13C2 PFDA	*94*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:13*	*1*
13C2 PFHxA	*92*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:13*	*1*

Client Sample ID: GAC Effluent

Date Collected: 07/01/21 09:45
Date Received: 07/02/21 10:29

Lab Sample ID: 410-45809-3

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	4.1	U	4.1		ng/L		07/09/21 05:03	07/17/21 01:26	1
8:2 Fluorotelomer sulfonic acid	2.5	U	2.5		ng/L		07/09/21 05:03	07/17/21 01:26	1
Perfluorobutanoic acid	4.1	U	4.1		ng/L		07/09/21 05:03	07/17/21 01:26	1
Perfluorodecanesulfonic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:26	1
Perfluoroheptanesulfonic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:26	1
Perfluorooctanesulfonamide	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:26	1
Perfluoropentanoic acid	1.6	U	1.6		ng/L		07/09/21 05:03	07/17/21 01:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*138*		*29 - 189*	*07/09/21 05:03*	*07/17/21 01:26*	*1*
M2-8:2 FTS	*139*		*34 - 182*	*07/09/21 05:03*	*07/17/21 01:26*	*1*
13C4 PFBA	*114*		*41 - 132*	*07/09/21 05:03*	*07/17/21 01:26*	*1*
13C5 PFPeA	*122*		*33 - 155*	*07/09/21 05:03*	*07/17/21 01:26*	*1*
13C8 PFOS	*109*		*49 - 126*	*07/09/21 05:03*	*07/17/21 01:26*	*1*
13C8 FOSA	*115*		*10 - 143*	*07/09/21 05:03*	*07/17/21 01:26*	*1*
13C3 PFHxS	*115*		*32 - 145*	*07/09/21 05:03*	*07/17/21 01:26*	*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		07/12/21 07:02	07/14/21 01:25	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
NEtFOSAA	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
NMeFOSAA	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:25*	*1*
13C2 PFDA	*94*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:25*	*1*
13C2 PFHxA	*93*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:25*	*1*

Client Sample ID: LTB01-210701

Date Collected: 07/01/21 00:00
Date Received: 07/02/21 10:29

Lab Sample ID: 410-45809-4

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		07/09/21 05:03	07/17/21 01:37	1
8:2 Fluorotelomer sulfonic acid	2.6	U	2.6		ng/L		07/09/21 05:03	07/17/21 01:37	1
Perfluorobutanoic acid	4.4	U	4.4		ng/L		07/09/21 05:03	07/17/21 01:37	1
Perfluorodecanesulfonic acid	1.7	U	1.7		ng/L		07/09/21 05:03	07/17/21 01:37	1
Perfluoroheptanesulfonic acid	1.7	U	1.7		ng/L		07/09/21 05:03	07/17/21 01:37	1
Perfluorooctanesulfonamide	1.7	U	1.7		ng/L		07/09/21 05:03	07/17/21 01:37	1
Perfluoropentanoic acid	1.7	U	1.7		ng/L		07/09/21 05:03	07/17/21 01:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*135*		*29 - 189*	*07/09/21 05:03*	*07/17/21 01:37*	*1*
M2-8:2 FTS	*123*		*34 - 182*	*07/09/21 05:03*	*07/17/21 01:37*	*1*
13C4 PFBA	*98*		*41 - 132*	*07/09/21 05:03*	*07/17/21 01:37*	*1*
13C5 PFPeA	*110*		*33 - 155*	*07/09/21 05:03*	*07/17/21 01:37*	*1*
13C8 PFOS	*103*		*49 - 126*	*07/09/21 05:03*	*07/17/21 01:37*	*1*
13C8 FOSA	*85*		*10 - 143*	*07/09/21 05:03*	*07/17/21 01:37*	*1*
13C3 PFHxS	*106*		*32 - 145*	*07/09/21 05:03*	*07/17/21 01:37*	*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		07/12/21 07:02	07/14/21 01:36	1
Perfluoroheptanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorooctanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorononanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorodecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorotridecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorotetradecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorobutanesulfonic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorohexanesulfonic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorooctanesulfonic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
NEtFOSAA	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
NMeFOSAA	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluoroundecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1
Perfluorododecanoic acid	1.8	U	1.8		ng/L		07/12/21 07:02	07/14/21 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:36*	*1*
13C2 PFDA	*94*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:36*	*1*
13C2 PFHxA	*90*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:36*	*1*

Client Sample ID: FTB01-210701

Date Collected: 07/01/21 09:30
Date Received: 07/02/21 10:29

Lab Sample ID: 410-45809-5

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		07/09/21 05:03	07/17/21 01:48	1
8:2 Fluorotelomer sulfonic acid	2.6	U	2.6		ng/L		07/09/21 05:03	07/17/21 01:48	1
Perfluorobutanoic acid	4.4	U	4.4		ng/L		07/09/21 05:03	07/17/21 01:48	1
Perfluorodecanesulfonic acid	1.8	U	1.8		ng/L		07/09/21 05:03	07/17/21 01:48	1
Perfluoroheptanesulfonic acid	1.8	U	1.8		ng/L		07/09/21 05:03	07/17/21 01:48	1
Perfluorooctanesulfonamide	1.8	U	1.8		ng/L		07/09/21 05:03	07/17/21 01:48	1
Perfluoropentanoic acid	1.8	U	1.8		ng/L		07/09/21 05:03	07/17/21 01:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*121*		*29 - 189*	*07/09/21 05:03*	*07/17/21 01:48*	*1*
M2-8:2 FTS	*116*		*34 - 182*	*07/09/21 05:03*	*07/17/21 01:48*	*1*
13C4 PFBA	*97*		*41 - 132*	*07/09/21 05:03*	*07/17/21 01:48*	*1*
13C5 PFPeA	*104*		*33 - 155*	*07/09/21 05:03*	*07/17/21 01:48*	*1*
13C8 PFOS	*98*		*49 - 126*	*07/09/21 05:03*	*07/17/21 01:48*	*1*
13C8 FOSA	*86*		*10 - 143*	*07/09/21 05:03*	*07/17/21 01:48*	*1*
13C3 PFHxS	*108*		*32 - 145*	*07/09/21 05:03*	*07/17/21 01:48*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluoroheptanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorooctanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorononanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorodecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorotridecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorotetradecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorobutanesulfonic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorohexanesulfonic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorooctanesulfonic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
NEtFOSAA	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
NMeFOSAA	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluoroundecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1
Perfluorododecanoic acid	1.7	U	1.7		ng/L		07/12/21 07:02	07/14/21 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*99*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:48*	*1*
13C2 PFDA	*100*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:48*	*1*
13C2 PFHxA	*94*		*70 - 130*	*07/12/21 07:02*	*07/14/21 01:48*	*1*

Surrogate Summary

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

Job ID: 410-45809-1
SDG: HOO

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-45809-1	GAC Influent	84	106	96
410-45809-1 - DL	GAC Influent	85	84	84
410-45809-2	GAC Midfluent	100	94	92
410-45809-3	GAC Effluent	95	94	93
410-45809-4	LTB01-210701	92	94	90
410-45809-5	FTB01-210701	99	100	94
LCS 410-145599/2-A	Lab Control Sample	83	91	80
LCS 410-147135/2-A	Lab Control Sample	102	100	95
LCSD 410-145599/3-A	Lab Control Sample Dup	73	84	74
LCSD 410-147135/3-A	Lab Control Sample Dup	92	101	86
MB 410-145599/1-A	Method Blank	87	87	78
MB 410-147135/1-A	Method Blank	105	109	106

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: 410-45809-1
SDG: HOO

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

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

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	M262FTS (29-189)	M282FTS (34-182)	PFBA (41-132)	PFPeA (33-155)	C8PFOS (49-126)	PFOSA (10-143)	C3PFHS (32-145)
410-45809-1	GAC Influent	144	129	113	120	104	102	119
410-45809-2	GAC Midfluent	138	123	104	112	100	95	110
410-45809-3	GAC Effluent	138	139	114	122	109	115	115
410-45809-4	LTB01-210701	135	123	98	110	103	85	106
410-45809-5	FTB01-210701	121	116	97	104	98	86	108
LCS 410-146637/2-A	Lab Control Sample	123	107	104	100	99	93	118
LCSD 410-146637/3-A	Lab Control Sample Dup	129	118	113	110	109	101	125
MB 410-146637/1-A	Method Blank	121	118	115	112	107	105	117

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 410-146637/1-A
Matrix: Water
Analysis Batch: 149900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 146637

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	5.0	U	5.0		ng/L		07/09/21 05:03	07/19/21 17:19	1
8:2 Fluorotelomer sulfonic acid	3.0	U	3.0		ng/L		07/09/21 05:03	07/19/21 17:19	1
Perfluorobutanoic acid	5.0	U	5.0		ng/L		07/09/21 05:03	07/19/21 17:19	1
Perfluorodecanesulfonic acid	2.0	U	2.0		ng/L		07/09/21 05:03	07/19/21 17:19	1
Perfluoroheptanesulfonic acid	2.0	U	2.0		ng/L		07/09/21 05:03	07/19/21 17:19	1
Perfluorooctanesulfonamide	2.0	U	2.0		ng/L		07/09/21 05:03	07/19/21 17:19	1
Perfluoropentanoic acid	2.0	U	2.0		ng/L		07/09/21 05:03	07/19/21 17:19	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*121*		*29 - 189*	*07/09/21 05:03*	*07/19/21 17:19*	*1*
M2-8:2 FTS	*118*		*34 - 182*	*07/09/21 05:03*	*07/19/21 17:19*	*1*
13C4 PFBA	*115*		*41 - 132*	*07/09/21 05:03*	*07/19/21 17:19*	*1*
13C5 PFPeA	*112*		*33 - 155*	*07/09/21 05:03*	*07/19/21 17:19*	*1*
13C8 PFOS	*107*		*49 - 126*	*07/09/21 05:03*	*07/19/21 17:19*	*1*
13C8 FOSA	*105*		*10 - 143*	*07/09/21 05:03*	*07/19/21 17:19*	*1*
13C3 PFHxS	*117*		*32 - 145*	*07/09/21 05:03*	*07/19/21 17:19*	*1*

Lab Sample ID: LCS 410-146637/2-A
Matrix: Water
Analysis Batch: 149900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 146637

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
6:2 Fluorotelomer sulfonic acid			24.3	22.1		ng/L		91	57 - 137		
8:2 Fluorotelomer sulfonic acid			24.5	24.2		ng/L		99	56 - 140		
Perfluorobutanoic acid			25.6	23.4		ng/L		91	62 - 156		
Perfluorodecanesulfonic acid			24.7	23.6		ng/L		96	61 - 134		
Perfluoroheptanesulfonic acid			24.4	20.8		ng/L		85	67 - 135		
Perfluorooctanesulfonamide			25.6	24.7		ng/L		97	55 - 130		
Perfluoropentanoic acid			25.6	25.6		ng/L		100	72 - 139		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-6:2 FTS	*123*		*29 - 189*
M2-8:2 FTS	*107*		*34 - 182*
13C4 PFBA	*104*		*41 - 132*
13C5 PFPeA	*100*		*33 - 155*
13C8 PFOS	*99*		*49 - 126*
13C8 FOSA	*93*		*10 - 143*
13C3 PFHxS	*118*		*32 - 145*

Lab Sample ID: LCSD 410-146637/3-A
Matrix: Water
Analysis Batch: 149900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 146637

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
6:2 Fluorotelomer sulfonic acid			24.3	21.7		ng/L		90	57 - 137	1	30
8:2 Fluorotelomer sulfonic acid			24.5	23.8		ng/L		97	56 - 140	2	30
Perfluorobutanoic acid			25.6	23.5		ng/L		92	62 - 156	0	30
Perfluorodecanesulfonic acid			24.7	22.7		ng/L		92	61 - 134	4	30
Perfluoroheptanesulfonic acid			24.4	21.1		ng/L		87	67 - 135	2	30

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

Lab Sample ID: LCSD 410-146637/3-A
Matrix: Water
Analysis Batch: 149900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 146637

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonamide			25.6	24.1		ng/L		94	55 - 130	3	30
Perfluoropentanoic acid			25.6	25.7		ng/L		100	72 - 139	1	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
M2-6:2 FTS	*129*		*29 - 189*
M2-8:2 FTS	*118*		*34 - 182*
13C4 PFBA	*113*		*41 - 132*
13C5 PFPeA	*110*		*33 - 155*
13C8 PFOS	*109*		*49 - 126*
13C8 FOSA	*101*		*10 - 143*
13C3 PFHxS	*125*		*32 - 145*

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

Lab Sample ID: MB 410-145599/1-A
Matrix: Water
Analysis Batch: 147051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145599

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluoroheptanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorooctanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorononanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorodecanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorotridecanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorotetradecanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorobutanesulfonic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorohexanesulfonic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorooctanesulfonic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
NEtFOSAA	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
NMeFOSAA	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluoroundecanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1
Perfluorododecanoic acid	2.0	U	2.0		ng/L		07/07/21 04:46	07/10/21 17:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*07/07/21 04:46*	*07/10/21 17:50*	*1*
13C2 PFDA	*87*		*70 - 130*	*07/07/21 04:46*	*07/10/21 17:50*	*1*
13C2 PFHxA	*78*		*70 - 130*	*07/07/21 04:46*	*07/10/21 17:50*	*1*

Lab Sample ID: LCS 410-145599/2-A
Matrix: Water
Analysis Batch: 147051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145599

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	19.3		ng/L		94	70 - 130		
Perfluoroheptanoic acid			20.5	19.0		ng/L		93	70 - 130		
Perfluorooctanoic acid			20.5	19.8		ng/L		96	70 - 130		
Perfluorononanoic acid			20.5	19.8		ng/L		97	70 - 130		
Perfluorodecanoic acid			20.5	20.5		ng/L		100	70 - 130		

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

Lab Sample ID: LCS 410-145599/2-A
Matrix: Water
Analysis Batch: 147051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotridecanoic acid	20.5	19.2		ng/L		94	70 - 130
Perfluorotetradecanoic acid	20.5	19.0		ng/L		93	70 - 130
Perfluorobutanesulfonic acid	18.1	15.6		ng/L		86	70 - 130
Perfluorohexanesulfonic acid	18.7	16.9		ng/L		91	70 - 130
Perfluorooctanesulfonic acid	19.0	17.5		ng/L		93	70 - 130
NEtFOSAA	20.5	18.7		ng/L		91	70 - 130
NMeFOSAA	20.5	18.1		ng/L		88	70 - 130
Perfluoroundecanoic acid	20.5	19.4		ng/L		95	70 - 130
Perfluorododecanoic acid	20.5	20.7		ng/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*83*		*70 - 130*
13C2 PFDA	*91*		*70 - 130*
13C2 PFHxA	*80*		*70 - 130*

Lab Sample ID: LCSD 410-145599/3-A
Matrix: Water
Analysis Batch: 147051

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	20.5	18.5		ng/L		90	70 - 130	5	30
Perfluoroheptanoic acid	20.5	19.0		ng/L		93	70 - 130	0	30
Perfluorooctanoic acid	20.5	19.2		ng/L		94	70 - 130	3	30
Perfluorononanoic acid	20.5	18.9		ng/L		92	70 - 130	4	30
Perfluorodecanoic acid	20.5	20.1		ng/L		98	70 - 130	2	30
Perfluorotridecanoic acid	20.5	18.6		ng/L		91	70 - 130	3	30
Perfluorotetradecanoic acid	20.5	19.9		ng/L		97	70 - 130	4	30
Perfluorobutanesulfonic acid	18.1	15.5		ng/L		85	70 - 130	1	30
Perfluorohexanesulfonic acid	18.7	18.2		ng/L		97	70 - 130	7	30
Perfluorooctanesulfonic acid	19.0	19.7		ng/L		104	70 - 130	11	30
NEtFOSAA	20.5	18.1		ng/L		88	70 - 130	3	30
NMeFOSAA	20.5	16.7		ng/L		81	70 - 130	8	30
Perfluoroundecanoic acid	20.5	19.1		ng/L		93	70 - 130	1	30
Perfluorododecanoic acid	20.5	20.8		ng/L		102	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*73*		*70 - 130*
13C2 PFDA	*84*		*70 - 130*
13C2 PFHxA	*74*		*70 - 130*

Lab Sample ID: MB 410-147135/1-A
Matrix: Water
Analysis Batch: 147828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147135

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0	U	2.0	ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluoroheptanoic acid	2.0	U	2.0	ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorooctanoic acid	2.0	U	2.0	ng/L		07/12/21 07:02	07/14/21 00:27	1

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

Lab Sample ID: MB 410-147135/1-A
Matrix: Water
Analysis Batch: 147828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 147135

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorodecanoic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorotridecanoic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorotetradecanoic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorobutanesulfonic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorohexanesulfonic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorooctanesulfonic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
NEtFOSAA	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
NMeFOSAA	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluoroundecanoic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1
Perfluorododecanoic acid	2.0	U	2.0		ng/L		07/12/21 07:02	07/14/21 00:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*07/12/21 07:02*	*07/14/21 00:27*	*1*
13C2 PFDA	*109*		*70 - 130*	*07/12/21 07:02*	*07/14/21 00:27*	*1*
13C2 PFHxA	*106*		*70 - 130*	*07/12/21 07:02*	*07/14/21 00:27*	*1*

Lab Sample ID: LCS 410-147135/2-A
Matrix: Water
Analysis Batch: 147828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 147135

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	19.1		ng/L		93	70 - 130		
Perfluoroheptanoic acid			20.5	20.5		ng/L		100	70 - 130		
Perfluorooctanoic acid			20.5	21.2		ng/L		104	70 - 130		
Perfluorononanoic acid			20.5	20.7		ng/L		101	70 - 130		
Perfluorodecanoic acid			20.5	21.2		ng/L		103	70 - 130		
Perfluorotridecanoic acid			20.5	20.9		ng/L		102	70 - 130		
Perfluorotetradecanoic acid			20.5	21.1		ng/L		103	70 - 130		
Perfluorobutanesulfonic acid			18.1	14.2		ng/L		78	70 - 130		
Perfluorohexanesulfonic acid			18.7	17.5		ng/L		94	70 - 130		
Perfluorooctanesulfonic acid			19.0	18.4		ng/L		97	70 - 130		
NEtFOSAA			20.5	19.5		ng/L		95	70 - 130		
NMeFOSAA			20.5	19.3		ng/L		94	70 - 130		
Perfluoroundecanoic acid			20.5	20.6		ng/L		101	70 - 130		
Perfluorododecanoic acid			20.5	20.6		ng/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*102*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*95*		*70 - 130*

Lab Sample ID: LCSD 410-147135/3-A
Matrix: Water
Analysis Batch: 147828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147135

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	17.4		ng/L		85	70 - 130	9	30

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

Lab Sample ID: LCSD 410-147135/3-A
Matrix: Water
Analysis Batch: 147828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 147135

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroheptanoic acid			20.5	20.0		ng/L		98	70 - 130	2	30
Perfluorooctanoic acid			20.5	20.1		ng/L		98	70 - 130	6	30
Perfluorononanoic acid			20.5	19.6		ng/L		96	70 - 130	5	30
Perfluorodecanoic acid			20.5	21.1		ng/L		103	70 - 130	0	30
Perfluorotridecanoic acid			20.5	19.0		ng/L		93	70 - 130	10	30
Perfluorotetradecanoic acid			20.5	19.1		ng/L		93	70 - 130	10	30
Perfluorobutanesulfonic acid			18.1	13.4		ng/L		74	70 - 130	6	30
Perfluorohexanesulfonic acid			18.7	17.3		ng/L		93	70 - 130	1	30
Perfluorooctanesulfonic acid			19.0	17.7		ng/L		93	70 - 130	4	30
NEtFOSAA			20.5	18.7		ng/L		91	70 - 130	4	30
NMeFOSAA			20.5	19.2		ng/L		94	70 - 130	0	30
Perfluoroundecanoic acid			20.5	17.9		ng/L		87	70 - 130	14	30
Perfluorododecanoic acid			20.5	19.3		ng/L		94	70 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*101*		*70 - 130*
13C2 PFHxA	*86*		*70 - 130*

LCMS

Prep Batch: 145599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-1	GAC Influent	Total/NA	Water	537 DW	
410-45809-1 - DL	GAC Influent	Total/NA	Water	537 DW	
MB 410-145599/1-A	Method Blank	Total/NA	Water	537 DW	
LCS 410-145599/2-A	Lab Control Sample	Total/NA	Water	537 DW	
LCSD 410-145599/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	

Prep Batch: 146637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-1	GAC Influent	Total/NA	Water	537 (Mod)	
410-45809-2	GAC Midfluent	Total/NA	Water	537 (Mod)	
410-45809-3	GAC Effluent	Total/NA	Water	537 (Mod)	
410-45809-4	LTB01-210701	Total/NA	Water	537 (Mod)	
410-45809-5	FTB01-210701	Total/NA	Water	537 (Mod)	
MB 410-146637/1-A	Method Blank	Total/NA	Water	537 (Mod)	
LCS 410-146637/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	
LCSD 410-146637/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	

Analysis Batch: 147051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-1	GAC Influent	Total/NA	Water	537 DW	145599
MB 410-145599/1-A	Method Blank	Total/NA	Water	537 DW	145599
LCS 410-145599/2-A	Lab Control Sample	Total/NA	Water	537 DW	145599
LCSD 410-145599/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	145599

Prep Batch: 147135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-2	GAC Midfluent	Total/NA	Water	537 DW	
410-45809-3	GAC Effluent	Total/NA	Water	537 DW	
410-45809-4	LTB01-210701	Total/NA	Water	537 DW	
410-45809-5	FTB01-210701	Total/NA	Water	537 DW	
MB 410-147135/1-A	Method Blank	Total/NA	Water	537 DW	
LCS 410-147135/2-A	Lab Control Sample	Total/NA	Water	537 DW	
LCSD 410-147135/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	

Analysis Batch: 147328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-1 - DL	GAC Influent	Total/NA	Water	537 DW	145599

Analysis Batch: 147828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-2	GAC Midfluent	Total/NA	Water	537 DW	147135
410-45809-3	GAC Effluent	Total/NA	Water	537 DW	147135
410-45809-4	LTB01-210701	Total/NA	Water	537 DW	147135
410-45809-5	FTB01-210701	Total/NA	Water	537 DW	147135
MB 410-147135/1-A	Method Blank	Total/NA	Water	537 DW	147135
LCS 410-147135/2-A	Lab Control Sample	Total/NA	Water	537 DW	147135
LCSD 410-147135/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	147135

Analysis Batch: 149382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-1	GAC Influent	Total/NA	Water	537 (Mod)	146637

LCMS (Continued)

Analysis Batch: 149382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-45809-2	GAC Midfluent	Total/NA	Water	537 (Mod)	146637
410-45809-3	GAC Effluent	Total/NA	Water	537 (Mod)	146637
410-45809-4	LTB01-210701	Total/NA	Water	537 (Mod)	146637
410-45809-5	FTB01-210701	Total/NA	Water	537 (Mod)	146637

Analysis Batch: 149900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-146637/1-A	Method Blank	Total/NA	Water	537 (Mod)	146637
LCS 410-146637/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	146637
LCSD 410-146637/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	146637

Lab Chronicle

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

Job ID: 410-45809-1
SDG: HOO

Client Sample ID: GAC Influent
Lab Sample ID: 410-45809-1
Date Collected: 07/01/21 09:35
Matrix: Water
Date Received: 07/02/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			146637	07/09/21 05:03	RDL8	ELLE
Total/NA	Analysis	537 (Mod)		1	149382	07/17/21 01:03	DIJ6	ELLE
Total/NA	Prep	537 DW			145599	07/07/21 04:46	GK2L	ELLE
Total/NA	Analysis	537 DW		1	147051	07/10/21 20:43	Y6ZN	ELLE
Total/NA	Prep	537 DW	DL		145599	07/07/21 04:46	GK2L	ELLE
Total/NA	Analysis	537 DW	DL	10	147328	07/12/21 13:22	Y6ZN	ELLE

Client Sample ID: GAC Midfluent
Lab Sample ID: 410-45809-2
Date Collected: 07/01/21 09:40
Matrix: Water
Date Received: 07/02/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			146637	07/09/21 05:03	RDL8	ELLE
Total/NA	Analysis	537 (Mod)		1	149382	07/17/21 01:14	DIJ6	ELLE
Total/NA	Prep	537 DW			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	537 DW		1	147828	07/14/21 01:13	Y6ZN	ELLE

Client Sample ID: GAC Effluent
Lab Sample ID: 410-45809-3
Date Collected: 07/01/21 09:45
Matrix: Water
Date Received: 07/02/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			146637	07/09/21 05:03	RDL8	ELLE
Total/NA	Analysis	537 (Mod)		1	149382	07/17/21 01:26	DIJ6	ELLE
Total/NA	Prep	537 DW			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	537 DW		1	147828	07/14/21 01:25	Y6ZN	ELLE

Client Sample ID: LTB01-210701
Lab Sample ID: 410-45809-4
Date Collected: 07/01/21 00:00
Matrix: Water
Date Received: 07/02/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			146637	07/09/21 05:03	RDL8	ELLE
Total/NA	Analysis	537 (Mod)		1	149382	07/17/21 01:37	DIJ6	ELLE
Total/NA	Prep	537 DW			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	537 DW		1	147828	07/14/21 01:36	Y6ZN	ELLE

Client Sample ID: FTB01-210701
Lab Sample ID: 410-45809-5
Date Collected: 07/01/21 09:30
Matrix: Water
Date Received: 07/02/21 10:29

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			146637	07/09/21 05:03	RDL8	ELLE
Total/NA	Analysis	537 (Mod)		1	149382	07/17/21 01:48	DIJ6	ELLE
Total/NA	Prep	537 DW			147135	07/12/21 07:02	RDL8	ELLE
Total/NA	Analysis	537 DW		1	147828	07/14/21 01:48	Y6ZN	ELLE

Lab Chronicle

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

Job ID: 410-45809-1
SDG: HOO

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: 410-45809-1
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	Perfluorooctanesulfonic acid
537 DW	537 DW	Water	Perfluorooctanoic 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: 410-45809-1
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: 410-45809-1
SDG: HOO

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-45809-1	GAC Influent	Water	07/01/21 09:35	07/02/21 10:29
410-45809-2	GAC Midfluent	Water	07/01/21 09:40	07/02/21 10:29
410-45809-3	GAC Effluent	Water	07/01/21 09:45	07/02/21 10:29
410-45809-4	LTB01-210701	Water	07/01/21 00:00	07/02/21 10:29
410-45809-5	FTB01-210701	Water	07/01/21 09:30	07/02/21 10:29

Chain of Custody Record

eurofins Environment Testing America

410-45809 Chain of Custody

Client Contact: Jonathan Dippert	Sampler: D. King	Lab PM: Coplan, Dorothy	Carrier Tracking No(s):	COC No: 410-13086-232 2
	Phone:	E-Mail: Dorothy.Coplan@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: CT Male Associates DPC	PWSID:			Job #:
Address: 50 Century Hill Dr	Due Date Requested:			
City: Latham	TAT Requested (days):			
State, Zip: NY, 12110	Compliance Project: Δ Yes Δ No			
Phone: 518-786-7400	PO #: 14.4756			
Email: j.dippert@ctmale.com	WO #:			
Project Name: Hoosick Falls WTP	Project #: 41000511			
Site: Hoosick Falls WTP	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - Trizma, Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - (MOD) 7 PFAS Compounds	537_DW - 14 PFAS Drinking Water List	Number of containers	Special Instructions/Note:
GAC InFluent	7/1/21	0935	G	Water	N	N	✓	✓	4	
GAC Midfluent		0940	G	Water	N	N	✓	✓	4	
GAC EFFluent		0945	G	Water	N	N	✓	✓	4	
LTB01-210701		—	G	Rinse	N	N	✓	✓	4	
FTB01-210701		0930	G	Rinse	N	N	✓	✓	4	

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) EQuIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time: 7/1/21-1215	Company: CTMale	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time: 7/2/21	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time: 7/2/21 1029	Company: ECLE
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 1.1			

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: CT Male Associates DPC

Job Number: 410-45809-1
SDG Number: HOO

Login Number: 45809
List Source: Eurofins Lancaster Laboratories Env, LLC
List Number: 1
Creator: Lugardo, Tamara

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	