

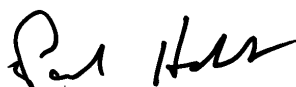
ANALYTICAL REPORT

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

Laboratory Job ID: 410-35505-1
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:
4/16/2021 9:53:08 AM

Paul Hobart, Project Manager
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Results relate only to the items tested and the sample(s) as received by the laboratory.



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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A handwritten signature in black ink, appearing to read "Paul Hobart". The signature is written in a cursive, flowing style.

Paul Hobart
Project Manager
4/16/2021 9:53:08 AM



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Definitions/Glossary

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

Job ID: 410-35505-1
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.
α	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: 410-35505-1
SDG: HOO

Job ID: 410-35505-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-35505-1

Receipt

The samples were received on 4/10/2021 11:16 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 0.8°C

LCMS

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

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- 16

Detection Summary

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

Job ID: 410-35505-1
SDG: HOO

Client Sample ID: GAC Effluent

Lab Sample ID: 410-35505-1

No Detections.

Client Sample ID: FTB01-210409

Lab Sample ID: 410-35505-5

No Detections.

Client Sample ID: LTB01-210409

Lab Sample ID: 410-35505-6

No Detections.

- 1
- 2
- 3
- 4
- 5
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- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

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

Job ID: 410-35505-1
SDG: HOO

Client Sample ID: GAC Effluent

Lab Sample ID: 410-35505-1

Date Collected: 04/09/21 11:12

Matrix: Water

Date Received: 04/10/21 11:16

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		04/12/21 17:44	04/13/21 00:05	1
Perfluoroheptanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorooctanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorononanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorodecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorotridecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorotetradecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorobutanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorohexanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorooctanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
NEtFOSAA	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
NMeFOSAA	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluoroundecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Perfluorododecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	98		70 - 130			04/12/21 17:44	04/13/21 00:05	1
13C2 PFDA	87		70 - 130			04/12/21 17:44	04/13/21 00:05	1
13C2 PFHxA	86		70 - 130			04/12/21 17:44	04/13/21 00:05	1

Client Sample Results

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

Job ID: 410-35505-1
SDG: HOO

Client Sample ID: FTB01-210409

Lab Sample ID: 410-35505-5

Date Collected: 04/09/21 11:25

Matrix: Water

Date Received: 04/10/21 11:16

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		04/12/21 19:09	04/14/21 05:23	1
8:2 Fluorotelomer sulfonic acid	2.7	U	2.7	ng/L		04/12/21 19:09	04/14/21 05:23	1
Perfluorobutanoic acid	4.4	U	4.4	ng/L		04/12/21 19:09	04/14/21 05:23	1
Perfluorodecanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:23	1
Perfluoroheptanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:23	1
Perfluorooctanesulfonamide	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:23	1
Perfluoropentanoic acid	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	116		29 - 189	04/12/21 19:09	04/14/21 05:23	1
M2-8:2 FTS	116		34 - 182	04/12/21 19:09	04/14/21 05:23	1
13C4 PFBA	113		41 - 132	04/12/21 19:09	04/14/21 05:23	1
13C5 PFPeA	111		33 - 155	04/12/21 19:09	04/14/21 05:23	1
13C8 PFOS	112		49 - 126	04/12/21 19:09	04/14/21 05:23	1
13C8 FOSA	95		10 - 143	04/12/21 19:09	04/14/21 05:23	1
13C3 PFHxS	111		32 - 145	04/12/21 19:09	04/14/21 05:23	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		04/12/21 17:44	04/13/21 00:17	1
Perfluoroheptanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorooctanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorononanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorodecanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorotridecanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorotetradecanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorobutanesulfonic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorohexanesulfonic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorooctanesulfonic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
NEtFOSAA	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
NMeFOSAA	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluoroundecanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1
Perfluorododecanoic acid	1.9	U	1.9	ng/L		04/12/21 17:44	04/13/21 00:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	87		70 - 130	04/12/21 17:44	04/13/21 00:17	1
13C2 PFDA	85		70 - 130	04/12/21 17:44	04/13/21 00:17	1
13C2 PFHxA	89		70 - 130	04/12/21 17:44	04/13/21 00:17	1

Client Sample Results

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

Job ID: 410-35505-1
SDG: HOO

Client Sample ID: LTB01-210409

Lab Sample ID: 410-35505-6

Date Collected: 04/09/21 00:00

Matrix: Water

Date Received: 04/10/21 11:16

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	4.5	U	4.5	ng/L		04/12/21 19:09	04/14/21 05:34	1
8:2 Fluorotelomer sulfonic acid	2.7	U	2.7	ng/L		04/12/21 19:09	04/14/21 05:34	1
Perfluorobutanoic acid	4.5	U	4.5	ng/L		04/12/21 19:09	04/14/21 05:34	1
Perfluorodecanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:34	1
Perfluoroheptanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:34	1
Perfluorooctanesulfonamide	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:34	1
Perfluoropentanoic acid	1.8	U	1.8	ng/L		04/12/21 19:09	04/14/21 05:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	109		29 - 189	04/12/21 19:09	04/14/21 05:34	1
M2-8:2 FTS	114		34 - 182	04/12/21 19:09	04/14/21 05:34	1
13C4 PFBA	103		41 - 132	04/12/21 19:09	04/14/21 05:34	1
13C5 PFPeA	100		33 - 155	04/12/21 19:09	04/14/21 05:34	1
13C8 PFOS	104		49 - 126	04/12/21 19:09	04/14/21 05:34	1
13C8 FOSA	90		10 - 143	04/12/21 19:09	04/14/21 05:34	1
13C3 PFHxS	102		32 - 145	04/12/21 19:09	04/14/21 05:34	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		04/12/21 17:44	04/13/21 00:28	1
Perfluoroheptanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorooctanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorononanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorodecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorotridecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorotetradecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorobutanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorohexanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorooctanesulfonic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
NEtFOSAA	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
NMeFOSAA	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluoroundecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1
Perfluorododecanoic acid	1.8	U	1.8	ng/L		04/12/21 17:44	04/13/21 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130	04/12/21 17:44	04/13/21 00:28	1
13C2 PFDA	90		70 - 130	04/12/21 17:44	04/13/21 00:28	1
13C2 PFHxA	91		70 - 130	04/12/21 17:44	04/13/21 00:28	1

Surrogate Summary

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

Job ID: 410-35505-1
 SDG: HOO

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-35505-1	GAC Effluent	98	87	86
410-35505-5	FTB01-210409	87	85	89
410-35505-6	LTB01-210409	97	90	91
LCS 410-113524/2-A	Lab Control Sample	90	91	96
LCS 410-113524/3-A	Lab Control Sample Dup	92	84	85
MB 410-113524/1-A	Method Blank	86	83	84

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: 410-35505-1
 SDG: HOO

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)						
		M262FTS (29-189)	M282FTS (34-182)	PFBA (41-132)	PFPeA (33-155)	C8PFOS (49-126)	PFOSA (10-143)	C3PFHS (32-145)
410-35505-5	FTB01-210409	116	116	113	111	112	95	111
410-35505-6	LTB01-210409	109	114	103	100	104	90	102
LCS 410-113557/2-A	Lab Control Sample	106	110	104	102	102	93	102
LCSD 410-113557/3-A	Lab Control Sample Dup	99	103	99	98	98	90	96
MB 410-113557/1-A	Method Blank	91	102	92	89	90	83	86

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

QC Sample Results

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

Job ID: 410-35505-1
SDG: HOO

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

Lab Sample ID: MB 410-113557/1-A
Matrix: Water
Analysis Batch: 113761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113557

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 Fluorotelomer sulfonic acid	5.0	U	5.0	ng/L		04/12/21 19:09	04/14/21 03:54	1
8:2 Fluorotelomer sulfonic acid	3.0	U	3.0	ng/L		04/12/21 19:09	04/14/21 03:54	1
Perfluorobutanoic acid	5.0	U	5.0	ng/L		04/12/21 19:09	04/14/21 03:54	1
Perfluorodecanesulfonic acid	2.0	U	2.0	ng/L		04/12/21 19:09	04/14/21 03:54	1
Perfluoroheptanesulfonic acid	2.0	U	2.0	ng/L		04/12/21 19:09	04/14/21 03:54	1
Perfluorooctanesulfonamide	2.0	U	2.0	ng/L		04/12/21 19:09	04/14/21 03:54	1
Perfluoropentanoic acid	2.0	U	2.0	ng/L		04/12/21 19:09	04/14/21 03:54	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	91		29 - 189	04/12/21 19:09	04/14/21 03:54	1
M2-8:2 FTS	102		34 - 182	04/12/21 19:09	04/14/21 03:54	1
13C4 PFBA	92		41 - 132	04/12/21 19:09	04/14/21 03:54	1
13C5 PFPeA	89		33 - 155	04/12/21 19:09	04/14/21 03:54	1
13C8 PFOS	90		49 - 126	04/12/21 19:09	04/14/21 03:54	1
13C8 FOSA	83		10 - 143	04/12/21 19:09	04/14/21 03:54	1
13C3 PFHxS	86		32 - 145	04/12/21 19:09	04/14/21 03:54	1

Lab Sample ID: LCS 410-113557/2-A
Matrix: Water
Analysis Batch: 113761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113557

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
6:2 Fluorotelomer sulfonic acid	24.3	23.8		ng/L		98	57 - 137
8:2 Fluorotelomer sulfonic acid	24.5	24.4		ng/L		99	56 - 140
Perfluorobutanoic acid	25.6	27.0		ng/L		105	62 - 156
Perfluorodecanesulfonic acid	24.7	26.9		ng/L		109	61 - 134
Perfluoroheptanesulfonic acid	24.4	24.9		ng/L		102	67 - 135
Perfluorooctanesulfonamide	25.6	27.1		ng/L		106	55 - 130
Perfluoropentanoic acid	25.6	25.5		ng/L		100	72 - 139

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	106		29 - 189
M2-8:2 FTS	110		34 - 182
13C4 PFBA	104		41 - 132
13C5 PFPeA	102		33 - 155
13C8 PFOS	102		49 - 126
13C8 FOSA	93		10 - 143
13C3 PFHxS	102		32 - 145

Lab Sample ID: LCSD 410-113557/3-A
Matrix: Water
Analysis Batch: 113761

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 113557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
6:2 Fluorotelomer sulfonic acid	24.3	26.3		ng/L		108	57 - 137	10	30
8:2 Fluorotelomer sulfonic acid	24.5	25.8		ng/L		105	56 - 140	6	30
Perfluorobutanoic acid	25.6	28.6		ng/L		112	62 - 156	6	30
Perfluorodecanesulfonic acid	24.7	27.6		ng/L		112	61 - 134	2	30
Perfluoroheptanesulfonic acid	24.4	26.9		ng/L		111	67 - 135	8	30

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

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

Job ID: 410-35505-1
SDG: HOO

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

Lab Sample ID: LCSD 410-113557/3-A

Matrix: Water

Analysis Batch: 113761

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113557

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonamide	25.6	28.8		ng/L		112	55 - 130	6	30
Perfluoropentanoic acid	25.6	27.5		ng/L		107	72 - 139	7	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
M2-6:2 FTS	99		29 - 189
M2-8:2 FTS	103		34 - 182
13C4 PFBA	99		41 - 132
13C5 PFPeA	98		33 - 155
13C8 PFOS	98		49 - 126
13C8 FOSA	90		10 - 143
13C3 PFHxS	96		32 - 145

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

Lab Sample ID: MB 410-113524/1-A

Matrix: Water

Analysis Batch: 113377

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113524

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluoroheptanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorooctanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorononanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorodecanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorotridecanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorotetradecanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorobutanesulfonic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorohexanesulfonic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorooctanesulfonic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
NEtFOSAA	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
NMeFOSAA	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluoroundecanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1
Perfluorododecanoic acid	2.0	U	2.0	ng/L		04/12/21 17:44	04/12/21 23:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	86		70 - 130	04/12/21 17:44	04/12/21 23:17	1
13C2 PFDA	83		70 - 130	04/12/21 17:44	04/12/21 23:17	1
13C2 PFHxA	84		70 - 130	04/12/21 17:44	04/12/21 23:17	1

Lab Sample ID: LCS 410-113524/2-A

Matrix: Water

Analysis Batch: 114531

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	19.4		ng/L		95	70 - 130
Perfluoroheptanoic acid	20.5	20.0		ng/L		97	70 - 130
Perfluorooctanoic acid	20.5	19.1		ng/L		93	70 - 130
Perfluorononanoic acid	20.5	19.4		ng/L		95	70 - 130
Perfluorodecanoic acid	20.5	18.4		ng/L		90	70 - 130

Eurofins Lancaster Laboratories Env, LLC

QC Sample Results

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

Job ID: 410-35505-1
SDG: HOO

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

Lab Sample ID: LCS 410-113524/2-A

Matrix: Water

Analysis Batch: 114531

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Perfluorotridecanoic acid	20.5	17.8		ng/L		87	70 - 130	
Perfluorotetradecanoic acid	20.5	17.7		ng/L		86	70 - 130	
Perfluorobutanesulfonic acid	18.1	16.8		ng/L		93	70 - 130	
Perfluorohexanesulfonic acid	18.7	17.3		ng/L		93	70 - 130	
Perfluorooctanesulfonic acid	19.0	17.3		ng/L		91	70 - 130	
NEtFOSAA	20.5	18.0		ng/L		88	70 - 130	
NMeFOSAA	20.5	18.8		ng/L		92	70 - 130	
Perfluoroundecanoic acid	20.5	18.3		ng/L		89	70 - 130	
Perfluorododecanoic acid	20.5	17.6		ng/L		86	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	90		70 - 130
13C2 PFDA	91		70 - 130
13C2 PFHxA	96		70 - 130

Lab Sample ID: LCSD 410-113524/3-A

Matrix: Water

Analysis Batch: 113377

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113524

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
Perfluorohexanoic acid	20.5	19.4		ng/L		95	70 - 130		3	30
Perfluoroheptanoic acid	20.5	20.2		ng/L		98	70 - 130		1	30
Perfluorooctanoic acid	20.5	19.0		ng/L		93	70 - 130		0	30
Perfluorononanoic acid	20.5	19.2		ng/L		94	70 - 130		0	30
Perfluorodecanoic acid	20.5	19.1		ng/L		93	70 - 130		1	30
Perfluorotridecanoic acid	20.5	17.8		ng/L		87	70 - 130		1	30
Perfluorotetradecanoic acid	20.5	16.2		ng/L		79	70 - 130		1	30
Perfluorobutanesulfonic acid	18.1	20.5		ng/L		113	70 - 130		2	30
Perfluorohexanesulfonic acid	18.7	20.3		ng/L		109	70 - 130		1	30
Perfluorooctanesulfonic acid	19.0	19.6		ng/L		103	70 - 130		1	30
NEtFOSAA	20.5	19.8		ng/L		97	70 - 130		0	30
NMeFOSAA	20.5	19.6		ng/L		96	70 - 130		2	30
Perfluoroundecanoic acid	20.5	18.5		ng/L		91	70 - 130		2	30
Perfluorododecanoic acid	20.5	17.6		ng/L		86	70 - 130		1	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	92		70 - 130
13C2 PFDA	84		70 - 130
13C2 PFHxA	85		70 - 130

QC Association Summary

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

Job ID: 410-35505-1
 SDG: HOO

LCMS

Analysis Batch: 113377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35505-1	GAC Effluent	Total/NA	Water	537 DW	113524
410-35505-5	FTB01-210409	Total/NA	Water	537 DW	113524
410-35505-6	LTB01-210409	Total/NA	Water	537 DW	113524
MB 410-113524/1-A	Method Blank	Total/NA	Water	537 DW	113524
LCSD 410-113524/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	113524

Prep Batch: 113524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35505-1	GAC Effluent	Total/NA	Water	537 DW	
410-35505-5	FTB01-210409	Total/NA	Water	537 DW	
410-35505-6	LTB01-210409	Total/NA	Water	537 DW	
MB 410-113524/1-A	Method Blank	Total/NA	Water	537 DW	
LCS 410-113524/2-A	Lab Control Sample	Total/NA	Water	537 DW	
LCSD 410-113524/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	

Prep Batch: 113557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35505-5	FTB01-210409	Total/NA	Water	537 (Mod)	
410-35505-6	LTB01-210409	Total/NA	Water	537 (Mod)	
MB 410-113557/1-A	Method Blank	Total/NA	Water	537 (Mod)	
LCS 410-113557/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	
LCSD 410-113557/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	

Analysis Batch: 113761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-35505-5	FTB01-210409	Total/NA	Water	537 (Mod)	113557
410-35505-6	LTB01-210409	Total/NA	Water	537 (Mod)	113557
MB 410-113557/1-A	Method Blank	Total/NA	Water	537 (Mod)	113557
LCS 410-113557/2-A	Lab Control Sample	Total/NA	Water	537 (Mod)	113557
LCSD 410-113557/3-A	Lab Control Sample Dup	Total/NA	Water	537 (Mod)	113557

Analysis Batch: 114531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-113524/2-A	Lab Control Sample	Total/NA	Water	537 DW	113524

Lab Chronicle

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

Job ID: 410-35505-1
SDG: HOO

Client Sample ID: GAC Effluent

Lab Sample ID: 410-35505-1

Date Collected: 04/09/21 11:12

Matrix: Water

Date Received: 04/10/21 11:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			113524	04/12/21 17:44	QLP7	ELLE
Total/NA	Analysis	537 DW		1	113377	04/13/21 00:05	Y6ZN	ELLE

Client Sample ID: FTB01-210409

Lab Sample ID: 410-35505-5

Date Collected: 04/09/21 11:25

Matrix: Water

Date Received: 04/10/21 11:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			113557	04/12/21 19:09	QLP7	ELLE
Total/NA	Analysis	537 (Mod)		1	113761	04/14/21 05:23	QD9Y	ELLE
Total/NA	Prep	537 DW			113524	04/12/21 17:44	QLP7	ELLE
Total/NA	Analysis	537 DW		1	113377	04/13/21 00:17	Y6ZN	ELLE

Client Sample ID: LTB01-210409

Lab Sample ID: 410-35505-6

Date Collected: 04/09/21 00:00

Matrix: Water

Date Received: 04/10/21 11:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (Mod)			113557	04/12/21 19:09	QLP7	ELLE
Total/NA	Analysis	537 (Mod)		1	113761	04/14/21 05:34	QD9Y	ELLE
Total/NA	Prep	537 DW			113524	04/12/21 17:44	QLP7	ELLE
Total/NA	Analysis	537 DW		1	113377	04/13/21 00:28	Y6ZN	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: 410-35505-1
 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: 410-35505-1
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: 410-35505-1
SDG: HOO

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-35505-1	GAC Effluent	Water	04/09/21 11:12	04/10/21 11:16	
410-35505-5	FTB01-210409	Water	04/09/21 11:25	04/10/21 11:16	
410-35505-6	LTB01-210409	Water	04/09/21 00:00	04/10/21 11:16	

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410-35505 Chain of Custody

Client: C.T. Male Associates		Analyses Requested										For Lab Use Only													
Project Name/#: Hoosick Falls WTP		Site ID:		Preservation and Filtration Codes										Project# 41000511											
Project Manager: Kirk Moline		P.O. #: 14.4756		Z										SCR#: 264402											
Sampler: <i>C. Ormsby</i>		Quote #: 219169		7 PFAS (EPA 537 mod.)										Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other Z = Trizma											
Phone #: <i>518-786-7400</i>		For Compliance:		14 PFAS (EPA 537 ver. 1.1)																					
State where sample(s) were collected: NY		Yes <input type="checkbox"/> No <input type="checkbox"/>												Remarks											
Sample Identification		Date	Time	Grab	Composite	Soil	Sediment	Potable Water	Ground Water	Surface Water	Other: <i>Reagent Water</i>	Total # of Containers													
<i>GAC Effluent</i>		<i>4/9/21</i>	<i>1112</i>	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>Reagent Water</i>	<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<i>PV-2_25</i>			<i>1115</i>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Hold</i>										
<i>PV-2_50</i>			<i>1118</i>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Hold</i>										
<i>PV-2_75</i>			<i>1121</i>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>Hold</i>										
<i>FTB01-210409</i>			<i>1125</i>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>	<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
<i>LTB01-210409</i>			<i>-</i>								<input checked="" type="checkbox"/>	<i>4</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
Turnaround Time Requested (TAT) (please check): Standard <input type="checkbox"/> RUSH <input checked="" type="checkbox"/>		(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.)		Relinquished by: <i>[Signature]</i>		Date: <i>4/9/21</i>		Time: <i>1235</i>		Received by:		Date:		Time:											
Date results are needed:		E-mail address to send RUSH results: <i>K.Moline@CtMale.com</i>		Relinquished by:		Date:		Time:		Received by:		Date:		Time:											
Data Package Options (please check if required)		Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/> TX TRRP - 13 <input type="checkbox"/>		Relinquished by:		Date:		Time:		Received by:		Date:		Time:											
Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/>		Type IV (CLP SOW) <input type="checkbox"/> ASP Type A <input type="checkbox"/>		Relinquished by:		Date:		Time:		Received by:		Date:		Time:											
Type VI (Raw Data Only) <input type="checkbox"/> ASP Type B <input checked="" type="checkbox"/>		EDD Format: EQUIS		Relinquished by:		Date:		Time:		Received by: <i>[Signature]</i>		Date: <i>4/10/21</i>		Time: <i>11:16</i>											
If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.		Airbill No.:		Relinquished by Commercial Carrier:		UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input type="checkbox"/>		Temperature upon receipt: <i>0.8</i> °C																	

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Login Sample Receipt Checklist

Client: CT Male Associates DPC

Job Number: 410-35505-1

SDG Number: HOO

Login Number: 35505

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Sanchez, Melvin E

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, 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	

