

ANALYTICAL REPORT

PREPARED FOR

Attn: Nick Bruzzi
Housatonic Basin Sampling & Testing
80 Run Way
Lee, Massachusetts 01238

Generated 2/6/2024 11:49:12 PM

JOB DESCRIPTION

1279000-240117

JOB NUMBER

810-91568-1

Eurofins Eaton Analytical South Bend

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



Authorized for release by
Amanda Scott, Project Manager
Amanda.Scott@et.eurofinsus.com
(574)233-4777

Generated
2/6/2024 11:49:12 PM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	22



Definitions/Glossary

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

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
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: Housatonic Basin Sampling & Testing
Project: 1279000-240117

Job ID: 810-91568-1

Job ID: 810-91568-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-91568-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- 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 may be 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.

Receipt

The samples were received on 1/25/2024 9:30 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 3.6°C

PFAS

Method 537.1_DW_PREC: All surrogates (13C2 PFHxA 13C2 PFDA 13C3 HFPO-DA and d5-NEtFOSAA) failed low in 537.1 (810-91568-A-1-B DU) however they passed in parent sample. No holding time left for rework so the results are reported as it is.

Method 537.1_DW_PREC: All surrogates and most of the analytes except 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid, Perfluorobutanesulfonic acid (PFBS), 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid, Perfluorohexanesulfonic acid (PFHxS) and Perfluorooctanesulfonic acid (PFOS) failed low in LCS (Limit 70-130%), however they passed in LLCS. No holding time left for rework for 537.1 sample POE Post GT Brook 01G- (Southwick Water Department) (810-91568-1), hence the results will be reported as it is.

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

Eurofins Eaton Analytical South Bend

Detection Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

**Client Sample ID: POE Post GT Brook 01G- (Southwick Water
Department)**
PWSID Number: 1279000

Lab Sample ID: 810-91568-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.68	J	1.9	0.51	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	1.2	J *-	1.9	0.48	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.83	J	1.9	0.42	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.68	ng/L	1		537.1	Total/NA

**Client Sample ID: POE Post GT Brook 01G- (Southwick Water
Department) - FB**
PWSID Number: 1279000

Lab Sample ID: 810-91568-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Client Sample ID: POE Post GT Brook 01G- (Southwick Water Department)

Lab Sample ID: 810-91568-1

Date Collected: 01/17/24 09:55

Matrix: Drinking Water

Date Received: 01/25/24 09:30

PWSID Number: 1279000

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.68	J	1.9	0.51	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluoroundecanoic acid (PFUnA)	ND	*-	1.9	0.61	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorohexanoic acid (PFHxA)	ND	*-	1.9	0.61	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorododecanoic acid (PFDoA)	ND	*-	1.9	0.61	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorooctanoic acid (PFOA)	1.2	J *	1.9	0.48	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorodecanoic acid (PFDA)	ND	*-	1.9	0.58	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorohexanesulfonic acid (PFHxS)	0.83	J	1.9	0.42	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.9	0.68	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluoroheptanoic acid (PFHpA)	ND	*-	1.9	0.50	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorononanoic acid (PFNA)	ND	*-	1.9	0.46	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorotetradecanoic acid (PFTeDA)	ND	*-	1.9	0.62	ng/L		01/26/24 08:28	01/30/24 18:25	1
Perfluorotridecanoic acid (PFTriDA)	ND	*-	1.9	0.58	ng/L		01/26/24 08:28	01/30/24 18:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	*-	1.9	0.60	ng/L		01/26/24 08:28	01/30/24 18:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*-	1.9	0.49	ng/L		01/26/24 08:28	01/30/24 18:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	*-	1.9	0.60	ng/L		01/26/24 08:28	01/30/24 18:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.61	ng/L		01/26/24 08:28	01/30/24 18:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.61	ng/L		01/26/24 08:28	01/30/24 18:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	*-	1.9	0.47	ng/L		01/26/24 08:28	01/30/24 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130	01/26/24 08:28	01/30/24 18:25	1
13C2 PFDA	95		70 - 130	01/26/24 08:28	01/30/24 18:25	1
13C3 HFPO-DA	93		70 - 130	01/26/24 08:28	01/30/24 18:25	1
d5-NEtFOSAA	93		70 - 130	01/26/24 08:28	01/30/24 18:25	1

Method: EPA PFAS6 - PFAS6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFAS Total	ND		2.00	0.500	ng/L			01/30/24 18:25	1

Client Sample ID: POE Post GT Brook 01G- (Southwick Water Department) - FB

Lab Sample ID: 810-91568-2

Date Collected: 01/17/24 09:55

Matrix: Drinking Water

Date Received: 01/25/24 09:30

PWSID Number: 1279000

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.50	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.60	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.60	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.60	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.48	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.57	ng/L		01/31/24 08:21	02/01/24 22:25	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Client Sample ID: POE Post GT Brook 01G- (Southwick Water
Department) - FB

Lab Sample ID: 810-91568-2

Date Collected: 01/17/24 09:55

Matrix: Drinking Water

Date Received: 01/25/24 09:30

PWSID Number: 1279000

Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.42	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.68	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.50	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.46	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.62	ng/L		01/31/24 08:21	02/01/24 22:25	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.9	0.57	ng/L		01/31/24 08:21	02/01/24 22:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.59	ng/L		01/31/24 08:21	02/01/24 22:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.49	ng/L		01/31/24 08:21	02/01/24 22:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9	0.59	ng/L		01/31/24 08:21	02/01/24 22:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.61	ng/L		01/31/24 08:21	02/01/24 22:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.61	ng/L		01/31/24 08:21	02/01/24 22:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.47	ng/L		01/31/24 08:21	02/01/24 22:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	95		70 - 130				01/31/24 08:21	02/01/24 22:25	1
13C2 PFDA	96		70 - 130				01/31/24 08:21	02/01/24 22:25	1
13C3 HFPO-DA	91		70 - 130				01/31/24 08:21	02/01/24 22:25	1
d5-NEtFOSAA	98		70 - 130				01/31/24 08:21	02/01/24 22:25	1

Method: EPA PFAS6 - PFAS6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFAS Total	ND		2.00	0.500	ng/L			02/01/24 22:25	1

Surrogate Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-91568-1	POE Post GT Brook 01G- (Southwic	93	95	93	93
810-91568-1 DU	POE Post GT Brook 01G- (Southwick Water Department)	68 S1-	55 S1-	66 S1-	32 S1-
810-91568-2	POE Post GT Brook 01G- (Southwick Water Department) - FB	95	96	91	98
LCS 810-86829/3-A	Lab Control Sample	47 S1-	45 S1-	47 S1-	30 S1-
LLCS 810-86829/2-A	Lab Control Sample	102	100	98	98
LLCS 810-87194/2-A	Lab Control Sample	96	99	90	100
MBL 810-86829/1-A	Method Blank	102	98	98	98
MBL 810-87194/1-A	Method Blank	97	95	90	99
Surrogate Legend					
PFHxA = 13C2 PFHxA					
PFDA = 13C2 PFDA					
HFPODA = 13C3 HFPO-DA					
d5NEFOS = d5-NEtFOSAA					

QC Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MBL 810-86829/1-A

Matrix: Drinking Water

Analysis Batch: 86891

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 86829

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.53	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.63	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.63	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.63	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.60	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.44	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.71	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.52	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.48	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.65	ng/L		01/26/24 08:28	01/30/24 17:21	1
Perfluorotridecanoic acid (PFTriDA)	ND		2.0	0.60	ng/L		01/26/24 08:28	01/30/24 17:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.62	ng/L		01/26/24 08:28	01/30/24 17:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.51	ng/L		01/26/24 08:28	01/30/24 17:21	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.62	ng/L		01/26/24 08:28	01/30/24 17:21	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.64	ng/L		01/26/24 08:28	01/30/24 17:21	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.64	ng/L		01/26/24 08:28	01/30/24 17:21	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.49	ng/L		01/26/24 08:28	01/30/24 17:21	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	102		70 - 130	01/26/24 08:28	01/30/24 17:21	1
13C2 PFDA	98		70 - 130	01/26/24 08:28	01/30/24 17:21	1
13C3 HFPO-DA	98		70 - 130	01/26/24 08:28	01/30/24 17:21	1
d5-NEtFOSAA	98		70 - 130	01/26/24 08:28	01/30/24 17:21	1

Lab Sample ID: LCS 810-86829/3-A

Matrix: Drinking Water

Analysis Batch: 86891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 86829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	100	94.4		ng/L		94	70 - 130
Perfluoroundecanoic acid (PFUnA)	100	50.1	*-	ng/L		50	70 - 130
Perfluorohexanoic acid (PFHxA)	100	50.8	*-	ng/L		51	70 - 130
Perfluorododecanoic acid (PFDoA)	100	47.5	*-	ng/L		47	70 - 130
Perfluorooctanoic acid (PFOA)	100	48.4	*-	ng/L		48	70 - 130
Perfluorodecanoic acid (PFDA)	100	53.4	*-	ng/L		53	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	100	102		ng/L		102	70 - 130
Perfluorobutanesulfonic acid (PFBS)	100	85.2		ng/L		85	70 - 130
Perfluoroheptanoic acid (PFHpA)	100	52.9	*-	ng/L		53	70 - 130
Perfluorononanoic acid (PFNA)	100	46.6	*-	ng/L		47	70 - 130

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 810-86829/3-A

Matrix: Drinking Water

Analysis Batch: 86891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 86829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	100	42.6	*-	ng/L		43	70 - 130
Perfluorotridecanoic acid (PFTrDA)	100	48.8	*-	ng/L		49	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	100	33.1	*-	ng/L		33	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	100	34.7	*-	ng/L		35	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	100	50.9	*-	ng/L		51	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	100	96.9		ng/L		97	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	100	92.6		ng/L		93	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	100	51.1	*-	ng/L		51	70 - 130
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
13C2 PFHxA	47	S1-	70 - 130				
13C2 PFDA	45	S1-	70 - 130				
13C3 HFPO-DA	47	S1-	70 - 130				
d5-NEtFOSAA	30	S1-	70 - 130				

Lab Sample ID: LLCS 810-86829/2-A

Matrix: Drinking Water

Analysis Batch: 86891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 86829

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.90	J	ng/L		95	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.05		ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.06		ng/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.71	J	ng/L		85	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.99	J	ng/L		100	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.96	J	ng/L		98	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	2.00		ng/L		100	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.18		ng/L		109	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.98	J	ng/L		99	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	1.05	J	ng/L		53	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	1.23	J	ng/L		61	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.80	J	ng/L		90	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.92	J	ng/L		96	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.95	J	ng/L		98	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-86829/2-A

Matrix: Drinking Water

Analysis Batch: 86891

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 86829

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.83	J	ng/L		92	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.80	J	ng/L		90	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.94	J	ng/L		97	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	102		70 - 130
13C2 PFDA	100		70 - 130
13C3 HFPO-DA	98		70 - 130
d5-NEtFOSAA	98		70 - 130

Lab Sample ID: 810-91568-1 DU

Matrix: Drinking Water

Analysis Batch: 86891

Client Sample ID: POE Post GT Brook 01G- (Southwick Water Department)

Prep Type: Total/NA

Prep Batch: 86829

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Perfluorooctanesulfonic acid (PFOS)	0.68	J	0.689	J	ng/L		2	30
Perfluoroundecanoic acid (PFUnA)	ND	*-	ND	*-	ng/L		NC	30
Perfluorohexanoic acid (PFHxA)	ND	*-	ND	*-	ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	ND	*-	ND	*-	ng/L		NC	30
Perfluorooctanoic acid (PFOA)	1.2	J *-	0.725	J *- F5	ng/L		51	30
Perfluorodecanoic acid (PFDA)	ND	*-	ND	*-	ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	0.83	J	0.845	J	ng/L		2	30
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.02	J	ng/L		6	30
Perfluoroheptanoic acid (PFHpA)	ND	*-	ND	*-	ng/L		NC	30
Perfluorononanoic acid (PFNA)	ND	*-	ND	*-	ng/L		NC	30
Perfluorotetradecanoic acid (PFTeDA)	ND	*-	ND	*-	ng/L		NC	30
Perfluorotridecanoic acid (PFTrDA)	ND	*-	ND	*-	ng/L		NC	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	*-	ND	*-	ng/L		NC	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*-	ND	*-	ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	*-	ND	*-	ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		ND		ng/L		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		ND		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	*-	ND	*-	ng/L		NC	30

QC Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: 810-91568-1 DU

Client Sample ID: POE Post GT Brook 01G- (Southwick Water Department)

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 86891

Prep Batch: 86829

Surrogate	%Recovery	DU DU Qualifier	Limits
13C2 PFHxA	68	S1-	70 - 130
13C2 PFDA	55	S1-	70 - 130
13C3 HFPO-DA	66	S1-	70 - 130
d5-NEtFOSAA	32	S1-	70 - 130

Lab Sample ID: MBL 810-87194/1-A

Client Sample ID: Method Blank

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 87384

Prep Batch: 87194

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.53	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.63	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.63	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.63	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.50	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.60	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.44	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.71	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.52	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.48	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.65	ng/L		01/31/24 08:21	02/01/24 21:00	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.60	ng/L		01/31/24 08:21	02/01/24 21:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.62	ng/L		01/31/24 08:21	02/01/24 21:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.51	ng/L		01/31/24 08:21	02/01/24 21:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.62	ng/L		01/31/24 08:21	02/01/24 21:00	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.64	ng/L		01/31/24 08:21	02/01/24 21:00	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.64	ng/L		01/31/24 08:21	02/01/24 21:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.49	ng/L		01/31/24 08:21	02/01/24 21:00	1

Surrogate	%Recovery	MBL MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130	01/31/24 08:21	02/01/24 21:00	1
13C2 PFDA	95		70 - 130	01/31/24 08:21	02/01/24 21:00	1
13C3 HFPO-DA	90		70 - 130	01/31/24 08:21	02/01/24 21:00	1
d5-NEtFOSAA	99		70 - 130	01/31/24 08:21	02/01/24 21:00	1

Lab Sample ID: LLCS 810-87194/2-A

Client Sample ID: Lab Control Sample

Matrix: Drinking Water

Prep Type: Total/NA

Analysis Batch: 87384

Prep Batch: 87194

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	2.00	1.89	J	ng/L		95	50 - 150

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Method: 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LLCS 810-87194/2-A

Matrix: Drinking Water

Analysis Batch: 87384

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87194

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	2.00	2.05		ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	2.10		ng/L		105	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.09		ng/L		104	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.86	J	ng/L		93	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.99	J	ng/L		99	50 - 150
Perfluorobutanesulfonic acid (PFBS)	2.00	1.65	J	ng/L		82	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.13		ng/L		106	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.97	J	ng/L		98	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	2.00	2.18		ng/L		109	50 - 150
Perfluorotridecanoic acid (PFTrDA)	2.00	2.06		ng/L		103	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.72	J	ng/L		86	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.89	J	ng/L		95	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.81	J	ng/L		90	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	2.00	1.61	J	ng/L		80	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	1.69	J	ng/L		84	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.00	1.89	J	ng/L		95	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	96		70 - 130
13C2 PFDA	99		70 - 130
13C3 HFPO-DA	90		70 - 130
d5-NEtFOSAA	100		70 - 130

QC Association Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

LCMS

Prep Batch: 86829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91568-1	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	537.1 DW	
MBL 810-86829/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-86829/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-86829/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
810-91568-1 DU	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 86891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91568-1	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	537.1	86829
MBL 810-86829/1-A	Method Blank	Total/NA	Drinking Water	537.1	86829
LCS 810-86829/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	86829
LLCS 810-86829/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	86829
810-91568-1 DU	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	537.1	86829

Prep Batch: 87194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91568-2	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	537.1 DW	
MBL 810-87194/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LLCS 810-87194/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 87384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91568-2	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	537.1	87194
MBL 810-87194/1-A	Method Blank	Total/NA	Drinking Water	537.1	87194
LLCS 810-87194/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	87194

Analysis Batch: 87501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-91568-1	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	PFAS6	
810-91568-2	POE Post GT Brook 01G- (Southwick Water Departme	Total/NA	Drinking Water	PFAS6	

Lab Chronicle

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Client Sample ID: POE Post GT Brook 01G- (Southwick Water Department)

Lab Sample ID: 810-91568-1

Date Collected: 01/17/24 09:55

Matrix: Drinking Water

Date Received: 01/25/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			86829	AD	EA SB	01/26/24 08:28
Total/NA	Analysis	537.1		1	86891	BS	EA SB	01/30/24 18:25
Total/NA	Analysis	PFAS6		1	87501	JT	EA SB	01/30/24 18:25

Client Sample ID: POE Post GT Brook 01G- (Southwick Water Department) - FB

Lab Sample ID: 810-91568-2

Date Collected: 01/17/24 09:55

Matrix: Drinking Water

Date Received: 01/25/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	537.1 DW			87194	AD	EA SB	01/31/24 08:21
Total/NA	Analysis	537.1		1	87384	BS	EA SB	02/01/24 22:25
Total/NA	Analysis	PFAS6		1	87501	JT	EA SB	02/01/24 22:25

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Laboratory: Eurofins Eaton Analytical South Bend

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

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-IN035	06-30-24
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
PFAS6		Drinking Water	PFAS Total

Method Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Method	Method Description	Protocol	Laboratory
537.1	Perfluorinated Alkyl Acids (LC/MS)	EPA	EA SB
PFAS6	PFAS6	EPA	EA SB
537.1 DW	Extraction of Perfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: 1279000-240117

Job ID: 810-91568-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-91568-1	POE Post GT Brook 01G- (Southwick Water Department)	Drinking Water	01/17/24 09:55	01/25/24 09:30	1279000
810-91568-2	POE Post GT Brook 01G- (Southwick Water Department) - FB	Drinking Water	01/17/24 09:55	01/25/24 09:30	1279000

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

SAMPLE COLLECTION RECORD | CHAIN OF CUSTODY | EUROFINS EATON ANALYTICAL

PWS NAME: SOUTHWICK WATER DEPARTMENT				80 RUN WAY LEE, MA 01238 (413)248-4622			
PWS ID: 1279000				HBST P.O. # 1279000-240117			
PWS TOWN: Southwick				# of WO: #####			
PWS CLASS: COM							

SAMPLE INFORMATION			FIELD RECORDED			MICRO BIOLOGY			CHEMICAL ANALYSIS						
ID	SAMPLE TYPE	BACTERIA DEP ID	Chem Sample ID	LOCATION DESCRIPTION	DATE/TIME	SAMPLER	Field Temp C°	pH	Field Turbidity (NTU)	CH12 Res (Free)	BACTERIA HPC	BACTERIA 9223 P/A	BACTERIA 9223 QT	PFAS 537.1	PFAS Blank
			[10000]	POE POST GT BROOK 01G -	1/17/24 9:55 AM	Dakota Keichen								X	X

CUSTODY TRANSFER		DATE/TIME	NOTES
SAMPLER		1/24/24	
RECEIVED	Kameron Williams	1/25/24 0930	
RELINQUISHED			
RECEIVED			
RELINQUISHED			

Note: Submit via EDEP unless designated Private or otherwise noted. Email report to: Admin@HousatonicBasin.com. Lab testing shall be in compliance with all State and Federal Drinking Water and applicable regulations.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: Housatonic Basin Sampling & Testing

Job Number: 810-91568-1

Login Number: 91568

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Williams, Kameron

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Samples do not require splitting or compositing.	True	
Container provided by EEA	True	