

ANALYTICAL REPORT

Eurofins Eaton South Bend
110 S Hill Street
South Bend, IN 46617
Tel: (574)233-4777

Laboratory Job ID: 810-12104-1

Client Project/Site: Southwick Water Department

For:

Housatonic Basin Sampling & Testing
80 Run Way
Lee, Massachusetts 01238

Attn: Nick Bruzzi



Authorized for release by:

1/27/2022 4:13:07 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
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/Site: Southwick Water Department

Job ID: 810-12104-1

Job ID: 810-12104-1

Laboratory: Eurofins Eaton South Bend

Narrative

Job Narrative 810-12104-1

Comments

No additional comments.

Receipt

The samples were received on 1/13/2022 10:15 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 was 4.2° C.

LCMS

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

Organic Prep

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

Detection Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

Client Sample ID: POE POST GT BROOK 01G

Lab Sample ID: 810-12104-1

PWSID Number: 1279000

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.9	0.38	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.9	0.38	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	1.6	J	1.9	0.38	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	0.48	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.76	J	1.9	0.38	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.59	J	1.9	0.38	ng/L	1		537.1	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton South Bend

Client Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

Client Sample ID: POE POST GT BROOK 01G

Lab Sample ID: 810-12104-1

Date Collected: 01/11/22 10:30

Matrix: Drinking Water

Date Received: 01/13/22 10:15

PWSID Number: 1279000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.2	J	1.9	0.38	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.9	0.38	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.38	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorooctanoic acid (PFOA)	1.6	J	1.9	0.38	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorobutanesulfonic acid (PFBS)	0.76	J	1.9	0.38	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluoroheptanoic acid (PFHpA)	0.59	J	1.9	0.38	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.57	ng/L		01/17/22 09:15	01/18/22 05:11	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.57	ng/L		01/17/22 09:15	01/18/22 05:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.48	ng/L		01/17/22 09:15	01/18/22 05:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.58	ng/L		01/17/22 09:15	01/18/22 05:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130				01/17/22 09:15	01/18/22 05:11	1
13C2 PFDA	96		70 - 130				01/17/22 09:15	01/18/22 05:11	1
13C3 HFPO-DA	94		70 - 130				01/17/22 09:15	01/18/22 05:11	1
d5-NEtFOSAA	87		70 - 130				01/17/22 09:15	01/18/22 05:11	1

Method: PFAS6 - PFAS6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFAS Total	ND		2.00	0.500	ng/L			01/18/22 05:11	1

Surrogate Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

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)
810-12104-1	POE POST GT BROOK 01G	92	96	94	87
LCS 810-11048/3-A	Lab Control Sample	101	97	103	95
LLCS 810-11048/2-A	Lab Control Sample	108	103	102	95
MB 810-11048/1-A	Method Blank	107	102	107	96

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: Southwick Water Department

Job ID: 810-12104-1

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

Lab Sample ID: MB 810-11048/1-A

Matrix: Drinking Water

Analysis Batch: 11095

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.40	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.40	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.40	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.40	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.40	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.40	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.60	ng/L		01/17/22 09:15	01/18/22 03:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.60	ng/L		01/17/22 09:15	01/18/22 03:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.50	ng/L		01/17/22 09:15	01/18/22 03:04	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.61	ng/L		01/17/22 09:15	01/18/22 03:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		70 - 130	01/17/22 09:15	01/18/22 03:04	1
13C2 PFDA	102		70 - 130	01/17/22 09:15	01/18/22 03:04	1
13C3 HFPO-DA	107		70 - 130	01/17/22 09:15	01/18/22 03:04	1
d5-NEtFOSAA	96		70 - 130	01/17/22 09:15	01/18/22 03:04	1

Lab Sample ID: LCS 810-11048/3-A

Matrix: Drinking Water

Analysis Batch: 11095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	95.9	97.7		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	95.9	105		ng/L		109	70 - 130
Perfluorohexanoic acid (PFHxA)	95.9	106		ng/L		111	70 - 130
Perfluorododecanoic acid (PFDoA)	95.9	99.2		ng/L		103	70 - 130
Perfluorooctanoic acid (PFOA)	95.9	100		ng/L		105	70 - 130
Perfluorodecanoic acid (PFDA)	95.9	107		ng/L		112	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	95.9	100		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	95.9	101		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	95.9	109		ng/L		114	70 - 130
Perfluorononanoic acid (PFNA)	95.9	105		ng/L		110	70 - 130

Eurofins Eaton South Bend

QC Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

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

Lab Sample ID: LCS 810-11048/3-A

Matrix: Drinking Water

Analysis Batch: 11095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotetradecanoic acid (PFTeDA)	95.9	87.8		ng/L		92	70 - 130
Perfluorotridecanoic acid (PFTTrDA)	95.9	102		ng/L		106	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	95.9	95.5		ng/L		100	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	95.9	99.7		ng/L		104	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	95.9	102		ng/L		107	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	95.9	97.8		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	95.9	94.3		ng/L		98	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	95.9	105		ng/L		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
13C2 PFHxA	101		70 - 130				
13C2 PFDA	97		70 - 130				
13C3 HFPO-DA	103		70 - 130				
d5-NEtFOSAA	95		70 - 130				

Lab Sample ID: LLCS 810-11048/2-A

Matrix: Drinking Water

Analysis Batch: 11095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11048

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	1.93	1.90		ng/L		99	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.93	1.95		ng/L		101	50 - 150
Perfluorohexanoic acid (PFHxA)	1.93	2.07		ng/L		107	50 - 150
Perfluorododecanoic acid (PFDoA)	1.93	1.98		ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	1.93	1.96		ng/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	1.93	1.99		ng/L		103	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.93	2.01		ng/L		104	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.93	1.88	J	ng/L		98	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.93	2.18		ng/L		113	50 - 150
Perfluorononanoic acid (PFNA)	1.93	2.09		ng/L		108	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.93	1.70	J	ng/L		88	50 - 150
Perfluorotridecanoic acid (PFTTrDA)	1.93	1.87	J	ng/L		97	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.93	1.68	J	ng/L		87	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.93	1.95		ng/L		101	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.93	2.06		ng/L		107	50 - 150

Eurofins Eaton South Bend

QC Sample Results

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

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

Lab Sample ID: LLCS 810-11048/2-A

Matrix: Drinking Water

Analysis Batch: 11095

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11048

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.93	1.70	J	ng/L		88	50 - 150
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid	1.93	1.77	J	ng/L		92	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.93	2.07		ng/L		108	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	108		70 - 130
13C2 PFDA	103		70 - 130
13C3 HFPO-DA	102		70 - 130
d5-NEtFOSAA	95		70 - 130

QC Association Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

LCMS

Prep Batch: 11048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12104-1	POE POST GT BROOK 01G	Total/NA	Drinking Water	537.1 DW	
MB 810-11048/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-11048/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-11048/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 11095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12104-1	POE POST GT BROOK 01G	Total/NA	Drinking Water	537.1	11048
MB 810-11048/1-A	Method Blank	Total/NA	Drinking Water	537.1	11048
LCS 810-11048/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	11048
LLCS 810-11048/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	11048

Analysis Batch: 11343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12104-1	POE POST GT BROOK 01G	Total/NA	Drinking Water	PFAS6	

Lab Chronicle

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

Client Sample ID: POE POST GT BROOK 01G

Lab Sample ID: 810-12104-1

Date Collected: 01/11/22 10:30

Matrix: Drinking Water

Date Received: 01/13/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			11048	01/17/22 09:15	MP	EA SB
Total/NA	Analysis	537.1		1	11095	01/18/22 05:11	MH	EA SB
Total/NA	Analysis	PFAS6		1	11343	01/18/22 05:11	MH	EA SB

Laboratory References:

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

Accreditation/Certification Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

Laboratory: Eurofins Eaton 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	06-30-22

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
PFAS6		Drinking Water	PFAS Total

Method Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

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 South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Sample Summary

Client: Housatonic Basin Sampling & Testing
Project/Site: Southwick Water Department

Job ID: 810-12104-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-12104-1	POE POST GT BROOK 01G	Drinking Water	01/11/22 10:30	01/13/22 10:15	1279000

1

2

3

4

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Login Sample Receipt Checklist

Client: Housatonic Basin Sampling & Testing

Job Number: 810-12104-1

Login Number: 12104

List Number: 1

Creator: Trott, Riley

List Source: Eurofins Eaton South Bend

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	