

ANALYTICAL REPORT

Job Number: 810-31376-1

Job Description: Southwick Water Dept

For:

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

Attention: Nick Bruzzi



Approved for release.
Amanda Scott
Project Manager
8/5/2022 6:48 AM

Amanda Scott, Project Manager
110 S Hill Street, South Bend, IN, 46617
Amanda.Scott@et.eurofinsus.com
08/05/2022

cc: Amanda Healy

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. This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

South Bend, IN

110 S Hill Street, South Bend, IN 46617

Tel (574) 233-4777 Fax (574) 233-8207 www.EurofinsUS.com





Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 1 of 2

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #:	1279000	City / Town:	Southwick
PWS Name:	Southwick Water Dept	PWS Class:	COM <input checked="" type="checkbox"/> NTNC <input type="checkbox"/> TNC <input type="checkbox"/>

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information	Date Collected	Collected By
10000	POE Post GT Brook 01G	<input type="checkbox"/> (M)ultiple <input type="checkbox"/> (S)ingle	07/19/2022	Tim Vreeland
		<input type="checkbox"/> (R)aw <input type="checkbox"/> (F)inished		
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:		
<input type="checkbox"/> RS <input type="checkbox"/> SS	<input type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	(1) Reason for Resubmission	(2) Collection Date of Original Sample	
<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction				
SAMPLE COMMENTS — Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank.				

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab MA Cert. #:	M-IN035	Primary Lab Name:	Eurofins Eaton South Bend	Subcontracted? (Y/N)	N
Analysis Lab MA Cert. #:	M-IN035	Analysis Lab Name:	Eurofins Eaton South Bend		
If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:					

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	
537.1	08/01/2022	08/02/2022	1	Primary Lab:	810-31376-1
				Subcontracted Lab:	810-31376-1

CAS#	REGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	0.83	J	-	0.40	2.0
335-67-1	Perfluorooctanoic Acid (PFOA)	0.68	J	-	0.40	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND		-	0.50	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	ND		-	0.50	2.0
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND		-	0.40	2.0
335-76-2	Perfluorodecanoic acid (PFDA)	ND		-	0.50	2.0
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column)		ND	-	20	-	-
UNREGULATED PFAS CONTAMINANTS						
375-73-5	Perfluorobutane sulfonic acid (PFBS)	0.53	J	-	0.40	2.0
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		-	0.40	2.0
307-24-4	Perfluorohexanoic acid (PFHxA)	0.41	J	-	0.40	2.0
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		-	0.60	2.0
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		-	0.50	2.0
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		-	0.50	2.0
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		-	0.60	2.0
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		-	0.50	2.0
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		-	0.50	2.0
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND		-	0.50	2.0
919005-14-4	4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND		-	0.61	2.0
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND		-	0.50	2.0

¹ A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.² All qualifiers must be described under Lab Analysis Comments on page 2.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID #:

1279000

Lab Sample ID #:

Primary Lab: 810-31376-1

Subcontracted Lab: 810-31376-1

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		

Surrogate Name	% Recovery (70 — 130%)	Alternate Surrogate (must document reason for change)
13C2-PFHxA	89	
13C2-PFDA	91	
d5-NEtFOSAA	91	
13C3-HFPO-DA	89	

Note: 13C3-HFDO-DA is not required for EPA Method 537 v1.1

In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.

☒ **Laboratory analytical report with QC attached (check one item below).**☒ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.☐ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.**Lab Analysis Comments:** (include sample/method parameters outside of or affecting QC controls/limits and result qualifiers)

Result 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.
Other Analysis Comments:	

* MCL or proposed MCL

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Authorized Signature: _____

Date: 08/05/2022

If not submitting these results electronically, mail TWO copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail, reports may be emailed to program.director-dwp@mass.gov.

MassDEP REVIEW STATUS (Initial and Date)	Review Comments	<input type="checkbox"/> WQTS Data Entered
<input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved _____		



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PWS Name:	Southwick Water Dept	PWS Class:	COM <input checked="" type="checkbox"/> NTNC <input type="checkbox"/> TNC <input type="checkbox"/>

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information	Date Collected	Collected By
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		<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction		
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Analysis Lab MA Cert. #:	M-IN035	Analysis Lab Name:	Eurofins Eaton South Bend		
If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:					

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	
PFAS6		08/04/2022	1	Primary Lab:	810-31376-1
				Subcontracted Lab:	810-31376-1

CAS#	REGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)			-		
335-67-1	Perfluorooctanoic Acid (PFOA)			-		
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)			-		
375-95-1	Perfluorononanoic Acid (PFNA)			-		
375-85-9	Perfluoroheptanoic Acid (PFHpA)			-		
335-76-2	Perfluorodecanoic acid (PFDA)			-		
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column)		= ND	-	20	-	-
UNREGULATED PFAS CONTAMINANTS						
375-73-5	Perfluorobutane sulfonic acid (PFBS)			-		
307-55-1	Perfluorododecanoic acid (PFDoA)			-		
307-24-4	Perfluorohexanoic acid (PFHxA)			-		
376-06-7	Perfluorotetradecanoic acid (PFTA)			-		
72629-94-8	Perfluorotridecanoic acid (PFTrDA)			-		
2058-94-8	Perfluoroundecanoic acid (PFUnA)			-		
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)			-		
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)			-		
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)			-		
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)			-		
919005-14-4	4,8-dioxo-3H-perfluorononanoic acid (ADONA)			-		
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)			-		

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PWS ID #:

1279000

Lab Sample ID #:

Primary Lab: 810-31376-1

Subcontracted Lab: 810-31376-1

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		

Surrogate Name	% Recovery (70 — 130%)	Alternate Surrogate (must document reason for change)

Note: 13C3-HFDO-DA is not required for EPA Method 537 v1.1

In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.

☒ **Laboratory analytical report with QC attached (check one item below).**☒ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSD/LFSMD or FD) and RPD.☐ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.**Lab Analysis Comments:** (include sample/method parameters outside of or affecting QC controls/limits and result qualifiers)

Result Qualifier	Qualifier Description
Other Analysis Comments:	

* MCL or proposed MCL

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Authorized Signature: _____

Date: 08/05/2022

If not submitting these results electronically, mail TWO copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail, reports may be emailed to program.director-dwp@mass.gov.

MassDEP REVIEW STATUS (Initial and Date)	Review Comments	<input type="checkbox"/> WQTS Data Entered
<input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved _____		

ANALYTICAL REPORT

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

Laboratory Job ID: 810-31376-1

Client Project/Site: Southwick Water Dept

For:

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

Attn: Nick Bruzzi



Authorized for release by:

8/5/2022 6:42:18 AM

Amanda Scott, Project Manager
(574)233-4777

Amanda.Scott@et.eurofinsus.com

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results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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 Dept

Job ID: 810-31376-1

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 Dept

Job ID: 810-31376-1

Job ID: 810-31376-1

Laboratory: Eurofins Eaton South Bend

Narrative

Job Narrative 810-31376-1

Receipt

The samples were received on 7/21/2022 8:30 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 0.4°C

PFAS

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

Detection Summary

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

Job ID: 810-31376-1

Client Sample ID: POE Post GT Brook 01G

Lab Sample ID: 810-31376-1

PWSID Number: 1279000

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.83	J	2.0	0.40	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	0.41	J	2.0	0.40	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	0.68	J	2.0	0.40	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.53	J	2.0	0.40	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 Dept

Job ID: 810-31376-1

Client Sample ID: POE Post GT Brook 01G

Lab Sample ID: 810-31376-1

Date Collected: 07/19/22 09:45

Matrix: Drinking Water

Date Received: 07/21/22 08:30

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)	0.83	J	2.0	0.40	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorohexanoic acid (PFHxA)	0.41	J	2.0	0.40	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorooctanoic acid (PFOA)	0.68	J	2.0	0.40	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorobutanesulfonic acid (PFBS)	0.53	J	2.0	0.40	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.60	ng/L		08/01/22 08:02	08/02/22 05:59	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.60	ng/L		08/01/22 08:02	08/02/22 05:59	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 05:59	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.61	ng/L		08/01/22 08:02	08/02/22 05:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	89		70 - 130	08/01/22 08:02	08/02/22 05:59	1
13C2 PFDA	91		70 - 130	08/01/22 08:02	08/02/22 05:59	1
13C3 HFPO-DA	89		70 - 130	08/01/22 08:02	08/02/22 05:59	1
d5-NEtFOSAA	91		70 - 130	08/01/22 08:02	08/02/22 05:59	1

Method: PFAS6 - PFAS6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFAS Total	ND		2.00	0.500	ng/L			08/04/22 14:02	1

Surrogate Summary

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

Job ID: 810-31376-1

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)
810-31376-1	POE Post GT Brook 01G	89	91	89	91
LCS 810-26451/3-A	Lab Control Sample	102	100	102	89
LLCS 810-26451/2-A	Lab Control Sample	100	83	91	78
MBL 810-26451/1-A	Method Blank	92	90	91	86

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 Dept

Job ID: 810-31376-1

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

Lab Sample ID: MBL 810-26451/1-A

Matrix: Drinking Water

Analysis Batch: 26571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26451

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.40	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.60	ng/L		08/01/22 08:02	08/02/22 02:49	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.60	ng/L		08/01/22 08:02	08/02/22 02:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.50	ng/L		08/01/22 08:02	08/02/22 02:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.61	ng/L		08/01/22 08:02	08/02/22 02:49	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130	08/01/22 08:02	08/02/22 02:49	1
13C2 PFDA	90		70 - 130	08/01/22 08:02	08/02/22 02:49	1
13C3 HFPO-DA	91		70 - 130	08/01/22 08:02	08/02/22 02:49	1
d5-NEtFOSAA	86		70 - 130	08/01/22 08:02	08/02/22 02:49	1

Lab Sample ID: LCS 810-26451/3-A

Matrix: Drinking Water

Analysis Batch: 26571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	96.3	80.8		ng/L		84	70 - 130
Perfluoroundecanoic acid (PFUnA)	96.3	85.8		ng/L		89	70 - 130
Perfluorohexanoic acid (PFHxA)	96.3	89.8		ng/L		93	70 - 130
Perfluorododecanoic acid (PFDoA)	96.3	85.8		ng/L		89	70 - 130
Perfluorooctanoic acid (PFOA)	96.3	89.0		ng/L		92	70 - 130
Perfluorodecanoic acid (PFDA)	96.3	85.9		ng/L		89	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	96.3	83.5		ng/L		87	70 - 130
Perfluorobutanesulfonic acid (PFBS)	96.3	84.1		ng/L		87	70 - 130
Perfluoroheptanoic acid (PFHpA)	96.3	91.4		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	96.3	92.1		ng/L		96	70 - 130

Eurofins Eaton South Bend

QC Sample Results

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

Job ID: 810-31376-1

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

Lab Sample ID: LCS 810-26451/3-A

Matrix: Drinking Water

Analysis Batch: 26571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorotetradecanoic acid (PFTeDA)	96.3	83.0		ng/L		86	70 - 130
Perfluorotridecanoic acid (PFTrDA)	96.3	82.6		ng/L		86	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	96.3	77.3		ng/L		80	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	96.3	78.4		ng/L		81	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	96.3	85.1		ng/L		88	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	96.3	78.3		ng/L		81	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	96.3	75.3		ng/L		78	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	96.3	88.6		ng/L		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
13C2 PFHxA	102		70 - 130				
13C2 PFDA	100		70 - 130				
13C3 HFPO-DA	102		70 - 130				
d5-NEtFOSAA	89		70 - 130				

Lab Sample ID: LLCS 810-26451/2-A

Matrix: Drinking Water

Analysis Batch: 26571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26451

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanesulfonic acid (PFOS)	1.93	1.82	J	ng/L		95	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.93	1.45	J	ng/L		76	50 - 150
Perfluorohexanoic acid (PFHxA)	1.93	1.75	J	ng/L		91	50 - 150
Perfluorododecanoic acid (PFDoA)	1.93	1.55	J	ng/L		80	50 - 150
Perfluorooctanoic acid (PFOA)	1.93	2.03		ng/L		105	50 - 150
Perfluorodecanoic acid (PFDA)	1.93	1.53	J	ng/L		80	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.93	1.72	J	ng/L		89	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.93	1.79	J	ng/L		93	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.93	1.88	J	ng/L		97	50 - 150
Perfluorononanoic acid (PFNA)	1.93	1.71	J	ng/L		89	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.93	1.49	J	ng/L		77	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.93	1.53	J	ng/L		79	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.93	1.32	J	ng/L		69	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.93	1.48	J	ng/L		77	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.93	1.70	J	ng/L		88	50 - 150

Eurofins Eaton South Bend

QC Sample Results

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

Job ID: 810-31376-1

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

Lab Sample ID: LLCS 810-26451/2-A

Matrix: Drinking Water

Analysis Batch: 26571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26451

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxan onane-1-sulfonic acid	1.93	1.40	J	ng/L		73	50 - 150
11-Chloroeicosafluoro-3-oxaund ecane-1-sulfonic acid	1.93	1.43	J	ng/L		74	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.93	1.79	J	ng/L		93	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
13C2 PFHxA	100		70 - 130
13C2 PFDA	83		70 - 130
13C3 HFPO-DA	91		70 - 130
d5-NEtFOSAA	78		70 - 130

QC Association Summary

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

Job ID: 810-31376-1

LCMS

Prep Batch: 26451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-31376-1	POE Post GT Brook 01G	Total/NA	Drinking Water	537.1 DW	
MBL 810-26451/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-26451/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-26451/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 26571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-31376-1	POE Post GT Brook 01G	Total/NA	Drinking Water	537.1	26451
MBL 810-26451/1-A	Method Blank	Total/NA	Drinking Water	537.1	26451
LCS 810-26451/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	26451
LLCS 810-26451/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	26451

Analysis Batch: 26959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-31376-1	POE Post GT Brook 01G	Total/NA	Drinking Water	PFAS6	

Lab Chronicle

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

Job ID: 810-31376-1

Client Sample ID: POE Post GT Brook 01G

Lab Sample ID: 810-31376-1

Date Collected: 07/19/22 09:45

Matrix: Drinking Water

Date Received: 07/21/22 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			26451	08/01/22 08:02	CM	EA SB
Total/NA	Analysis	537.1		1	26571	08/02/22 05:59	MH	EA SB
Total/NA	Analysis	PFAS6		1	26959	08/04/22 14:02	RD	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 Dept

Job ID: 810-31376-1

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	06-30-23

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 Dept

Job ID: 810-31376-1

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 Dept

Job ID: 810-31376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	PWSID Number
810-31376-1	POE Post GT Brook 01G	Drinking Water	07/19/22 09:45	07/21/22 08:30	1279000

1

2

3

4

5

6

7

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10

11

12

13

14

15

SAMPLE COLLECT

PWS NAME: SOUTHWICK WATER DEPARTMENT

PWS ID: 1279000

PWS TOWN: Southwick

PWS CLASS: COM



810-31376 Chain of Custody

Eaton Analytical

Electronic Basin Sampling & Testing

80 RUN WAY

LEE, MA 01238

(413)248-4622

HBST P.O. #

of WO:

####

[illegible]

Login Sample Receipt Checklist

Client: Housatonic Basin Sampling & Testing

Job Number: 810-31376-1

Login Number: 31376

List Source: Eurofins Eaton South Bend

List Number: 1

Creator: Pehling-Wright, Penny

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	