

ANALYTICAL REPORT

Eurofins Eaton South Bend
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South Bend, IN 46617
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Laboratory Job ID: 810-12697-1

Client Project/Site: Braintree Water & Sewer Department

For:

Braintree Water & Sewer Department
300 King Hill Road
Braintree, Massachusetts 02184

Attn: Brian Doran



Authorized for release by:

2/4/2022 4:09:46 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: Braintree Water & Sewer Department
Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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: Braintree Water & Sewer Department
Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

Job ID: 810-12697-1

Laboratory: Eurofins Eaton South Bend

Narrative

Job Narrative 810-12697-1

Comments

No additional comments.

Receipt

The samples were received on 1/21/2022 9:15 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 1.6° C.

LCMS

Method 537.1: The low-level matrix spike (LMS) recoveries for preparation batch 810-11998 and analytical batch 810-12054 were outside control limits. Perfluorooctanesulfonic acid (PFOS) recovery: 154%. Limit 50-150%. The spiking level is inappropriate for the native concentration of Perfluorooctanesulfonic acid (PFOS) in the parent sample. Results are not affected.

No additional analytical or quality issues were noted, other than those described above or 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: Braintree Water & Sewer Department
Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

Client Sample ID: Upper Res

Lab Sample ID: 810-12697-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	13		1.9	0.38	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	4.6		1.9	0.38	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	6.7		1.9	0.38	ng/L	1		537.1	Total/NA
Perfluorodecanoic acid (PFDA)	0.60	J	1.9	0.48	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.9	0.48	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.1		1.9	0.38	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.2		1.9	0.38	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	1.6	J	1.9	0.48	ng/L	1		537.1	Total/NA
PFAS Total	25.1		2.00	0.500	ng/L	1		PFAS6	Total/NA

Client Sample ID: Upper Res FTB

Lab Sample ID: 810-12697-2

No Detections.

Client Sample ID: Richardi Res

Lab Sample ID: 810-12697-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	8.4		1.9	0.37	ng/L	1		537.1	Total/NA
Perfluorohexanoic acid (PFHxA)	5.8		1.9	0.37	ng/L	1		537.1	Total/NA
Perfluorooctanoic acid (PFOA)	7.6		1.9	0.37	ng/L	1		537.1	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.0		1.9	0.47	ng/L	1		537.1	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		1.9	0.37	ng/L	1		537.1	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.8		1.9	0.37	ng/L	1		537.1	Total/NA
Perfluorononanoic acid (PFNA)	1.2	J	1.9	0.47	ng/L	1		537.1	Total/NA
PFAS Total	22.8		2.00	0.500	ng/L	1		PFAS6	Total/NA

Client Sample ID: Richardi Res FTB

Lab Sample ID: 810-12697-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

Client Sample ID: Upper Res

Lab Sample ID: 810-12697-1

Date Collected: 01/20/22 11:45

Matrix: Drinking Water

Date Received: 01/21/22 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	13		1.9	0.38	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorohexanoic acid (PFHxA)	4.6		1.9	0.38	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.38	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorooctanoic acid (PFOA)	6.7		1.9	0.38	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorodecanoic acid (PFDA)	0.60	J	1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorohexanesulfonic acid (PFHxS)	2.2		1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorobutanesulfonic acid (PFBS)	2.1		1.9	0.38	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluoroheptanoic acid (PFHpA)	3.2		1.9	0.38	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorononanoic acid (PFNA)	1.6	J	1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.57	ng/L		01/25/22 06:35	01/26/22 13:54	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.57	ng/L		01/25/22 06:35	01/26/22 13:54	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.48	ng/L		01/25/22 06:35	01/26/22 13:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.58	ng/L		01/25/22 06:35	01/26/22 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		70 - 130				01/25/22 06:35	01/26/22 13:54	1
13C2 PFDA	115		70 - 130				01/25/22 06:35	01/26/22 13:54	1
13C3 HFPO-DA	107		70 - 130				01/25/22 06:35	01/26/22 13:54	1
d5-NEtFOSAA	92		70 - 130				01/25/22 06:35	01/26/22 13:54	1

Method: PFAS6 - PFAS6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFAS Total	25.1		2.00	0.500	ng/L			01/25/22 06:35	1

Client Sample ID: Upper Res FTB

Lab Sample ID: 810-12697-2

Date Collected: 01/20/22 11:45

Matrix: Drinking Water

Date Received: 01/21/22 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.35	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.35	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.35	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.35	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.35	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.35	ng/L		01/31/22 05:45	02/01/22 03:31	1

Eurofins Eaton South Bend

Client Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

Client Sample ID: Upper Res FTB

Lab Sample ID: 810-12697-2

Date Collected: 01/20/22 11:45

Matrix: Drinking Water

Date Received: 01/21/22 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.53	ng/L		01/31/22 05:45	02/01/22 03:31	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.53	ng/L		01/31/22 05:45	02/01/22 03:31	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.44	ng/L		01/31/22 05:45	02/01/22 03:31	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.54	ng/L		01/31/22 05:45	02/01/22 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130				01/31/22 05:45	02/01/22 03:31	1
13C2 PFDA	95		70 - 130				01/31/22 05:45	02/01/22 03:31	1
13C3 HFPO-DA	94		70 - 130				01/31/22 05:45	02/01/22 03:31	1
d5-NEtFOSAA	87		70 - 130				01/31/22 05:45	02/01/22 03:31	1

Client Sample ID: Richardi Res

Lab Sample ID: 810-12697-3

Date Collected: 01/20/22 12:30

Matrix: Drinking Water

Date Received: 01/21/22 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	8.4		1.9	0.37	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorohexanoic acid (PFHxA)	5.8		1.9	0.37	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.37	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorooctanoic acid (PFOA)	7.6		1.9	0.37	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorohexanesulfonic acid (PFHxS)	3.0		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorobutanesulfonic acid (PFBS)	3.3		1.9	0.37	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluoroheptanoic acid (PFHpA)	3.8		1.9	0.37	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorononanoic acid (PFNA)	1.2 J		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.9	0.56	ng/L		01/25/22 06:35	01/26/22 14:04	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.9	0.56	ng/L		01/25/22 06:35	01/26/22 14:04	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		1.9	0.47	ng/L		01/25/22 06:35	01/26/22 14:04	1

Eurofins Eaton South Bend

Client Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

Client Sample ID: Richardi Res

Date Collected: 01/20/22 12:30

Date Received: 01/21/22 09:15

Lab Sample ID: 810-12697-3

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9	0.57	ng/L		01/25/22 06:35	01/26/22 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	112		70 - 130				01/25/22 06:35	01/26/22 14:04	1
13C2 PFDA	116		70 - 130				01/25/22 06:35	01/26/22 14:04	1
13C3 HFPO-DA	107		70 - 130				01/25/22 06:35	01/26/22 14:04	1
d5-NEtFOSAA	99		70 - 130				01/25/22 06:35	01/26/22 14:04	1

Method: PFAS6 - PFAS6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFAS Total	22.8		2.00	0.500	ng/L			01/25/22 06:35	1

Client Sample ID: Richardi Res FTB

Date Collected: 01/20/22 12:30

Date Received: 01/21/22 09:15

Lab Sample ID: 810-12697-4

Matrix: Drinking Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.36	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.36	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.36	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.36	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.36	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.36	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.8	0.54	ng/L		01/31/22 05:45	02/01/22 03:44	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.8	0.54	ng/L		01/31/22 05:45	02/01/22 03:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	ND		1.8	0.45	ng/L		01/31/22 05:45	02/01/22 03:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.8	0.55	ng/L		01/31/22 05:45	02/01/22 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	93		70 - 130				01/31/22 05:45	02/01/22 03:44	1
13C2 PFDA	93		70 - 130				01/31/22 05:45	02/01/22 03:44	1
13C3 HFPO-DA	92		70 - 130				01/31/22 05:45	02/01/22 03:44	1
d5-NEtFOSAA	79		70 - 130				01/31/22 05:45	02/01/22 03:44	1

Surrogate Summary

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		PFHxA (70-130)	PFDA (70-130)	HFPODA (70-130)	d5NEFOS (70-130)
810-12697-1	Upper Res	107	115	107	92
810-12697-2	Upper Res FTB	96	95	94	87
810-12697-3	Richardi Res	112	116	107	99
810-12697-4	Richardi Res FTB	93	93	92	79
LCS 810-11603/2-A	Lab Control Sample	110	103	110	94
LCS 810-11998/3-A	Lab Control Sample	99	89	99	81
LLCS 810-11603/3-A	Lab Control Sample	112	100	112	84
LLCS 810-11998/2-A	Lab Control Sample	81	88	80	81
MBL 810-11603/1-A	Method Blank	108	98	110	97
MBL 810-11998/1-A	Method Blank	92	83	90	79

Surrogate Legend

- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- HFPODA = 13C3 HFPO-DA
- d5NEFOS = d5-NEtFOSAA



QC Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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

Lab Sample ID: MBL 810-11603/1-A
Matrix: Drinking Water
Analysis Batch: 11666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11603

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.40	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.40	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.40	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.40	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.40	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.40	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.60	ng/L		01/25/22 06:35	01/26/22 13:01	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.60	ng/L		01/25/22 06:35	01/26/22 13:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.50	ng/L		01/25/22 06:35	01/26/22 13:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.61	ng/L		01/25/22 06:35	01/26/22 13:01	1

Surrogate	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	108		70 - 130	01/25/22 06:35	01/26/22 13:01	1
13C2 PFDA	98		70 - 130	01/25/22 06:35	01/26/22 13:01	1
13C3 HFPO-DA	110		70 - 130	01/25/22 06:35	01/26/22 13:01	1
d5-NEtFOSAA	97		70 - 130	01/25/22 06:35	01/26/22 13:01	1

Lab Sample ID: LCS 810-11603/2-A
Matrix: Drinking Water
Analysis Batch: 11666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	93.1	97.3		ng/L		105	70 - 130
Perfluoroundecanoic acid (PFUnA)	93.1	97.0		ng/L		104	70 - 130
Perfluorohexanoic acid (PFHxA)	93.1	100		ng/L		108	70 - 130
Perfluorododecanoic acid (PFDoA)	93.1	97.6		ng/L		105	70 - 130
Perfluorooctanoic acid (PFOA)	93.1	101		ng/L		108	70 - 130
Perfluorodecanoic acid (PFDA)	93.1	96.6		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	93.1	110		ng/L		118	70 - 130
Perfluorobutanesulfonic acid (PFBS)	93.1	97.9		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	93.1	110		ng/L		119	70 - 130
Perfluorononanoic acid (PFNA)	93.1	102		ng/L		109	70 - 130

Eurofins Eaton South Bend

QC Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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

Lab Sample ID: LCS 810-11603/2-A
Matrix: Drinking Water
Analysis Batch: 11666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorotetradecanoic acid (PFTeDA)	93.1	92.1		ng/L		99	70 - 130
Perfluorotridecanoic acid (PFTrDA)	93.1	91.9		ng/L		99	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	93.1	86.8		ng/L		93	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	93.1	86.0		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	93.1	101		ng/L		109	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.1	94.6		ng/L		102	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	93.1	88.6		ng/L		95	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	93.1	103		ng/L		110	70 - 130
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
13C2 PFHxA	110		70 - 130				
13C2 PFDA	103		70 - 130				
13C3 HFPO-DA	110		70 - 130				
d5-NEtFOSAA	94		70 - 130				

Lab Sample ID: LLCS 810-11603/3-A
Matrix: Drinking Water
Analysis Batch: 11666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11603

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	1.85	1.86		ng/L		101	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.85	1.65	J	ng/L		90	50 - 150
Perfluorohexanoic acid (PFHxA)	1.85	2.16		ng/L		117	50 - 150
Perfluorododecanoic acid (PFDoA)	1.85	1.81		ng/L		98	50 - 150
Perfluorooctanoic acid (PFOA)	1.85	2.16		ng/L		117	50 - 150
Perfluorodecanoic acid (PFDA)	1.85	1.84		ng/L		100	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.85	2.02		ng/L		109	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.85	1.97		ng/L		107	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.85	2.18		ng/L		118	50 - 150
Perfluorononanoic acid (PFNA)	1.85	2.03		ng/L		110	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.85	1.71	J	ng/L		92	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.85	1.75	J	ng/L		95	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.85	1.51	J	ng/L		82	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.85	1.48	J	ng/L		80	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.85	2.11		ng/L		114	50 - 150

Eurofins Eaton South Bend

QC Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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

Lab Sample ID: LLCS 810-11603/3-A
Matrix: Drinking Water
Analysis Batch: 11666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11603

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.85	1.60	J	ng/L		87	50 - 150
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	1.85	1.49	J	ng/L		80	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.85	2.04		ng/L		110	50 - 150

Surrogate	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C2 PFHxA	112		70 - 130
13C2 PFDA	100		70 - 130
13C3 HFPO-DA	112		70 - 130
d5-NEtFOSAA	84		70 - 130

Lab Sample ID: MBL 810-11998/1-A
Matrix: Drinking Water
Analysis Batch: 12054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11998

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.40	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.40	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.40	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.40	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.40	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.40	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.60	ng/L		01/31/22 05:45	01/31/22 21:25	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.60	ng/L		01/31/22 05:45	01/31/22 21:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	ND		2.0	0.50	ng/L		01/31/22 05:45	01/31/22 21:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.61	ng/L		01/31/22 05:45	01/31/22 21:25	1

Surrogate	MBL %Recovery	MBL Qualifier	MBL Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130	01/31/22 05:45	01/31/22 21:25	1
13C2 PFDA	83		70 - 130	01/31/22 05:45	01/31/22 21:25	1
13C3 HFPO-DA	90		70 - 130	01/31/22 05:45	01/31/22 21:25	1
d5-NEtFOSAA	79		70 - 130	01/31/22 05:45	01/31/22 21:25	1

QC Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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

Lab Sample ID: LCS 810-11998/3-A
Matrix: Drinking Water
Analysis Batch: 12054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11998

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	97.4	99.5		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	97.4	94.2		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	97.4	103		ng/L		106	70 - 130
Perfluorododecanoic acid (PFDoA)	97.4	93.1		ng/L		96	70 - 130
Perfluorooctanoic acid (PFOA)	97.4	103		ng/L		106	70 - 130
Perfluorodecanoic acid (PFDA)	97.4	94.6		ng/L		97	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	97.4	105		ng/L		108	70 - 130
Perfluorobutanesulfonic acid (PFBS)	97.4	106		ng/L		109	70 - 130
Perfluoroheptanoic acid (PFHpA)	97.4	105		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	97.4	100		ng/L		103	70 - 130
Perfluorotetradecanoic acid (PFTeDA)	97.4	91.9		ng/L		94	70 - 130
Perfluorotridecanoic acid (PFTrDA)	97.4	92.6		ng/L		95	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	97.4	88.2		ng/L		91	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	97.4	89.8		ng/L		92	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	97.4	100		ng/L		103	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	97.4	96.9		ng/L		99	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	97.4	97.9		ng/L		101	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	97.4	103		ng/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	99		70 - 130
13C2 PFDA	89		70 - 130
13C3 HFPO-DA	99		70 - 130
d5-NEtFOSAA	81		70 - 130

Lab Sample ID: LLCS 810-11998/2-A
Matrix: Drinking Water
Analysis Batch: 12054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11998

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	1.90	1.91		ng/L		101	50 - 150
Perfluoroundecanoic acid (PFUnA)	1.90	1.75	J	ng/L		92	50 - 150
Perfluorohexanoic acid (PFHxA)	1.90	1.60	J	ng/L		84	50 - 150
Perfluorododecanoic acid (PFDoA)	1.90	1.69	J	ng/L		89	50 - 150
Perfluorooctanoic acid (PFOA)	1.90	1.93		ng/L		102	50 - 150
Perfluorodecanoic acid (PFDA)	1.90	1.81	J	ng/L		95	50 - 150

Eurofins Eaton South Bend

QC Sample Results

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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

Lab Sample ID: LLCS 810-11998/2-A
Matrix: Drinking Water
Analysis Batch: 12054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11998

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanesulfonic acid (PFHxS)	1.90	1.91		ng/L		101	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.90	1.38	J	ng/L		73	50 - 150
Perfluoroheptanoic acid (PFHpA)	1.90	1.84	J	ng/L		97	50 - 150
Perfluorononanoic acid (PFNA)	1.90	1.83	J	ng/L		96	50 - 150
Perfluorotetradecanoic acid (PFTeDA)	1.90	1.63	J	ng/L		86	50 - 150
Perfluorotridecanoic acid (PFTrDA)	1.90	1.64	J	ng/L		86	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.90	1.57	J	ng/L		83	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.90	1.72	J	ng/L		90	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.90	1.48	J	ng/L		78	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.90	1.79	J	ng/L		94	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.90	1.81	J	ng/L		95	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.90	1.79	J	ng/L		94	50 - 150

Surrogate	LLCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	81		70 - 130
13C2 PFDA	88		70 - 130
13C3 HFPO-DA	80		70 - 130
d5-NEtFOSAA	81		70 - 130

QC Association Summary

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

LCMS

Prep Batch: 11603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12697-1	Upper Res	Total/NA	Drinking Water	537.1 DW	
810-12697-3	Richardi Res	Total/NA	Drinking Water	537.1 DW	
MBL 810-11603/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-11603/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-11603/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 11666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12697-1	Upper Res	Total/NA	Drinking Water	537.1	11603
810-12697-3	Richardi Res	Total/NA	Drinking Water	537.1	11603
MBL 810-11603/1-A	Method Blank	Total/NA	Drinking Water	537.1	11603
LCS 810-11603/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	11603
LLCS 810-11603/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	11603

Prep Batch: 11998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12697-2	Upper Res FTB	Total/NA	Drinking Water	537.1 DW	
810-12697-4	Richardi Res FTB	Total/NA	Drinking Water	537.1 DW	
MBL 810-11998/1-A	Method Blank	Total/NA	Drinking Water	537.1 DW	
LCS 810-11998/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	
LLCS 810-11998/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1 DW	

Analysis Batch: 12037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12697-1	Upper Res	Total/NA	Drinking Water	PFAS6	
810-12697-3	Richardi Res	Total/NA	Drinking Water	PFAS6	

Analysis Batch: 12054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-12697-2	Upper Res FTB	Total/NA	Drinking Water	537.1	11998
810-12697-4	Richardi Res FTB	Total/NA	Drinking Water	537.1	11998
MBL 810-11998/1-A	Method Blank	Total/NA	Drinking Water	537.1	11998
LCS 810-11998/3-A	Lab Control Sample	Total/NA	Drinking Water	537.1	11998
LLCS 810-11998/2-A	Lab Control Sample	Total/NA	Drinking Water	537.1	11998

Lab Chronicle

Client: Braintree Water & Sewer Department
 Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

Client Sample ID: Upper Res

Date Collected: 01/20/22 11:45

Date Received: 01/21/22 09:15

Lab Sample ID: 810-12697-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			11603	01/25/22 06:35	CM	EA SB
Total/NA	Analysis	537.1		1	11666	01/26/22 13:54	MH	EA SB
Total/NA	Analysis	PFAS6		1	12037	01/25/22 06:35	MH	EA SB

Client Sample ID: Upper Res FTB

Date Collected: 01/20/22 11:45

Date Received: 01/21/22 09:15

Lab Sample ID: 810-12697-2

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			11998	01/31/22 05:45	TR	EA SB
Total/NA	Analysis	537.1		1	12054	02/01/22 03:31	MH	EA SB

Client Sample ID: Richardi Res

Date Collected: 01/20/22 12:30

Date Received: 01/21/22 09:15

Lab Sample ID: 810-12697-3

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			11603	01/25/22 06:35	CM	EA SB
Total/NA	Analysis	537.1		1	11666	01/26/22 14:04	MH	EA SB
Total/NA	Analysis	PFAS6		1	12037	01/25/22 06:35	MH	EA SB

Client Sample ID: Richardi Res FTB

Date Collected: 01/20/22 12:30

Date Received: 01/21/22 09:15

Lab Sample ID: 810-12697-4

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537.1 DW			11998	01/31/22 05:45	TR	EA SB
Total/NA	Analysis	537.1		1	12054	02/01/22 03:44	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: Braintree Water & Sewer Department
Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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

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

Method Summary

Client: Braintree Water & Sewer Department
Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

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: Braintree Water & Sewer Department
Project/Site: Braintree Water & Sewer Department

Job ID: 810-12697-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-12697-1	Upper Res	Drinking Water	01/20/22 11:45	01/21/22 09:15
810-12697-2	Upper Res FTB	Drinking Water	01/20/22 11:45	01/21/22 09:15
810-12697-3	Richardi Res	Drinking Water	01/20/22 12:30	01/21/22 09:15
810-12697-4	Richardi Res FTB	Drinking Water	01/20/22 12:30	01/21/22 09:15

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South Bend, IN

110 S Hill Street

South Bend, IN 46617

Phone: 574-233-4777 Fax: 574-233-8

Will use earliest time given.



810-12697 Chain of Custody

Chain of Custody Record



Environment Testing America

Client Information

Client Contact:

Brian Doran

Company:

Braintree Water & Sewer Department

Address:

300 King Hill Road

City:

Braintree

State, Zip:

MA, 02184

Phone:

781-843-9205(Tel)

Email:

bdoran@braintreema.gov

Project Name:

PFC

Site:

Due Date Requested:

TAT Requested (days):

Compliance Project: Yes No

PO #:

Signed Quote

WO #:

Project #:

81000673

SSOW#:

Lab PM:

Muff, Patricia

E-Mail:

patricia.muff@eurofinset.com

Carrier Tracking No(s):

State of Origin:

COC No:

810-5754-1776.1

Page:

Page 1 of 2

Job #:

ASID:

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soils, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
Upper RES + Field blank	1/20/22	11:45		Drinking Water	X		3	Time on bottles 1210
Richardi RES + Field blank	1/20/22	12:30		Drinking Water	X		3	
				Drinking Water				
				Drinking Water				
				Drinking Water				
				Drinking Water				
				Drinking Water				
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				Drinking Water				
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				Drinking Water				
				Drinking Water				
				Drinking Water				
				Drinking Water				

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

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

Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 1/20/22 3:15pm Company: _____ Received by: *[Signature]* Date/Time: 01/21/22 0915 Company: EEA

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: 1.6 Wet

ppp
01/21/22



Login Sample Receipt Checklist

Client: Braintree Water & Sewer Department

Job Number: 810-12697-1

Login Number: 12697

List Number: 1

Creator: Pehling-Wright, Penny

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	