



90 Sargent Drive • New Haven, Connecticut 06511-5966
203-401-6743 or 877-894-5773 (Telephone) • Website: www.rwater.com

Laboratory Certification IDs

CT: PH-0411, NH: 2239, NY: 11867, PA: 68-05519, RI: LAO00339, MA: M-CT004

Certified analyte list is available at: www.rwalab.com

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ANALYTICAL REPORT

Project: FEE-RANDOLPHHOLBROOK-22-000008

Report Date: 9/11/2022

This Laboratory is in compliance with the NELAP requirements of procedures used except where indicated .
This report contains results for the analysis tested, under the sampling conditions described on the Chain Of Custody (COC), as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

The COC form has been scanned to accompany the analytical report and is an exact copy of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact RWA Client Services at (203) 401-6743 or (877) 894-5773. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Gary M. Alexander, Team Lead

Technical Representative

 **Regional Water Authority**

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SAMPLE SUMMARY

Sample ID	Customer ID	Collection Date/Time	Receipt Date
300224021	RAW WATER	8/2/2022 1200	8/3/22
300224022	FB - RAW WATER	8/2/2022 1200	8/3/22
300224023	FINISHED WATER	8/2/2022 1200	8/3/22
300224024	FB - FINISHED WATER	8/2/2022 1200	8/3/22

Case Narrative and Comments

All QC passes criteria unless noted in a Comment below.

Samples were received at the appropriate temperature and in accordance with the chain of custody unless noted.

E = Exceeds calibration range

ND = Non Detect

FB = Field Blank

RL = Minimum Reporting Level

MDL = Method Detection Limit

J = The reported result is below RL but greater than the MDL. The reported result is an estimate.

Massachusetts samples for required water quality sampling are included.

Samples and FBs were received in bottles with preservatives Trizma HCL & Trizma base per method requirements.

"FB" added at beginning/end designates "Field Blank" (Field Reagent Blank) for associated Customer ID sample. Field Blank analytes (unless noted) were shown to be less than 1/3 of the RL as per EPA 537.

Method EPA 537 Analyte Results, MDL and RL are adjusted to reflect the actual Final (mL) volume used.

<u>Method</u>	<u>CAS#</u>	<u>PFAS Analyte (Acronym)</u>
537	1763-23-1	Perfluorooctanesulfonic acid (PFOS)
537	335-67-1	Perfluorooctanoic acid (PFOA)
537	355-46-4	Perfluorohexanesulfonic acid (PFHxS)
537	375-95-1	Perfluorononanoic acid (PFNA)
537	375-85-9	Perfluorohepatanoic acid (PFHpA)
537	335-76-2	Perfluorodecanoic acid (PFDA)
537	375-73-5	Perfluorobutanesulfonic acid (PFBS)
537	307-55-1	Perfluorododecanoic acid (PFDoA)
537	307-24-4	Perfluorohexanoic acid (PFHxA)
537	376-06-7	Perfluorotetradecanoic acid (PFTA)
537	72629-94-8	Perfluorotridecanoic acid (PFTTrDA)
537	2058-94-8	Perfluoroundecanoic acid (PFUnA)
537	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)

PFAS6 (MassDEP) = sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA (only include Results at or above the RL)

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Sample ID: 300224021

Customer ID: RAW WATER

Collection Date: 08/02/2022 12:00

PWS ID# / LOC ID#:

Project: FEE-RANDOLPHHOLBROOK-22-000008

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	2.07	0.89	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFHxA	307-24-4	3.50	0.68	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFHpA	375-85-9	2.33	0.62	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFHxS	355-46-4	2.38	0.90	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFOA	335-67-1	5.39	0.72	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFOS	1763-23-1	8.94	0.89	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFNA	375-95-1	0.96	0.63	2.0	ng/L	1.0	J	EPA537	8/11/22 2248	CSS
PFDA	335-76-2	ND	0.72	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFUnA	2058-94-8	ND	0.91	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
NMeFOSAA	2355-31-9	ND	1.19	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
NEtFOSAA	2991-50-6	ND	1.03	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFDoA	307-55-1	ND	0.83	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFTTrDA	72629-94-8	ND	0.90	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFTA	376-06-7	ND	0.97	2.0	ng/L	1.0		EPA537	8/11/22 2248	CSS
PFAS6 (MassDEP)		19.04	2.00	2.00	ng/L					
Surrogates		Results	Recovery Limits		Pass/Fail					
13C-PFHxA (SUR) % Recovery		96.28	70 - 130		Pass					
13C-PFDA (SUR) % Recovery		90.74	70 - 130		Pass					
d5-NEtFOSAA (SUR) % Recovery		94.28	70 - 130		Pass					

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300224021	PFAS_537	537_EXT-220805-1	250	08/05/2022

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Sample ID: 300224022

Customer ID: FB - RAW WATER

Collection Date: 08/02/2022 12:00

PWS ID# / LOC ID#:

Project: FEE-RANDOLPHHOLBROOK-22-000008

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	ND	0.90	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFHxA	307-24-4	ND	0.69	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFHpA	375-85-9	ND	0.63	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFHxS	355-46-4	ND	0.91	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFOA	335-67-1	ND	0.73	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFOS	1763-23-1	ND	0.90	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFNA	375-95-1	ND	0.64	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFDA	335-76-2	ND	0.73	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFUnA	2058-94-8	ND	0.92	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
NMeFOSAA	2355-31-9	ND	1.20	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
NEtFOSAA	2991-50-6	ND	1.04	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFDoA	307-55-1	ND	0.84	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFTTrDA	72629-94-8	ND	0.91	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFTA	376-06-7	ND	0.98	2.02	ng/L	1.01		EPA537	8/11/22 2300	CSS
PFAS6 (MassDEP)		ND	2.02	2.02	ng/L					
Surrogates		Results	Recovery Limits		Pass/Fail					
13C-PFHxA (SUR) % Recovery		113.42	70 - 130		Pass					
13C-PFDA (SUR) % Recovery		109.41	70 - 130		Pass					
d5-NEtFOSAA (SUR) % Recovery		106.46	70 - 130		Pass					

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300224022	PFAS_537	537_EXT-220805-1	248	08/05/2022

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Sample ID: 300224023

Customer ID: FINISHED WATER

Collection Date: 08/02/2022 12:00

PWS ID# / LOC ID#: 4244001 / 10296

Project: FEE-RANDOLPHHOLBROOK-22-000008

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	2.67	0.89	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFHxA	307-24-4	3.68	0.68	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFHpA	375-85-9	2.83	0.62	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFHxS	355-46-4	2.50	0.90	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFOA	335-67-1	5.54	0.72	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFOS	1763-23-1	9.19	0.89	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFNA	375-95-1	1.02	0.63	2.0	ng/L	1.0	J	EPA537	8/11/22 2313	CSS
PFDA	335-76-2	ND	0.72	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFUnA	2058-94-8	ND	0.91	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
NMeFOSAA	2355-31-9	ND	1.19	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
NEtFOSAA	2991-50-6	ND	1.03	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFDoA	307-55-1	ND	0.83	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFTTrDA	72629-94-8	ND	0.90	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFTA	376-06-7	ND	0.97	2.0	ng/L	1.0		EPA537	8/11/22 2313	CSS
PFAS6 (MassDEP)		20.06	2.00	2.00	ng/L					
Surrogates		Results		Recovery Limits		Pass/Fail				
13C-PFHxA (SUR) % Recovery		107.86		70 - 130		Pass				
13C-PFDA (SUR) % Recovery		96.52		70 - 130		Pass				
d5-NEtFOSAA (SUR) % Recovery		108.35		70 - 130		Pass				

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300224023	PFAS_537	537_EXT-220805-1	250	08/05/2022

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Sample ID: 300224024

Customer ID: FB - FINISHED WATER

Collection Date: 08/02/2022 12:00

PWS ID# / LOC ID#:

Project: FEE-RANDOLPHHOLBROOK-22-000008

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Date Time/ Analyzed	Analyst
PFBS	375-73-5	ND	0.90	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFHxA	307-24-4	ND	0.69	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFHpA	375-85-9	ND	0.63	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFHxS	355-46-4	ND	0.91	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFOA	335-67-1	ND	0.73	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFOS	1763-23-1	ND	0.90	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFNA	375-95-1	ND	0.64	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFDA	335-76-2	ND	0.73	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFUnA	2058-94-8	ND	0.92	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
NMeFOSAA	2355-31-9	ND	1.20	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
NEtFOSAA	2991-50-6	ND	1.04	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFDaA	307-55-1	ND	0.84	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFTrDA	72629-94-8	ND	0.91	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFTA	376-06-7	ND	0.98	2.02	ng/L	1.01		EPA537	8/11/22 2325	CSS
PFAS6 (MassDEP)		ND	2.02	2.02	ng/L					
Surrogates		Results	Recovery Limits		Pass/Fail					
13C-PFHxA (SUR) % Recovery		100.68	70 - 130		Pass					
13C-PFDA (SUR) % Recovery		94.09	70 - 130		Pass					
d5-NEtFOSAA (SUR) % Recovery		95.79	70 - 130		Pass					

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300224024	PFAS_537	537_EXT-220805-1	248	08/05/2022

