



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
See website, www.rwalab.com/rwa-lab-certifications, for certified analyte list.

Client: Paul Hennessy
Randolph-Holbrook Joint Water

275 Pond St
Randolph, MA 02368

781-964-9292
phennessy@holbrookmassachusetts.us

ANALYTICAL REPORT

Project: FEE-RANDOLPHHOLBROOK-23-000014

Report Date: 11/28/2023

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.

A handwritten signature in black ink, appearing to read "Richard Sibley".

Richard Sibley
Laboratory Manager
Technical Representative



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SAMPLE SUMMARY

Sample ID	Customer ID	Collection Date/Time	Receipt Date
300442608	RAW	11/7/2023 1300	11/8/23
300442609	FB - RAW	11/7/2023 1300	11/8/23
300442610	FINISHED	11/7/2023 1300	11/8/23
300442611	FB - FINISHED	11/7/2023 1300	11/8/23

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 EPA537 or EPA537.1.

Method EPA537 or EPA537.1 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, 537.1	1763-23-1	Perfluorooctanesulfonic acid (PFOS)
537, 537.1	335-67-1	Perfluorooctanoic acid (PFOA)
537, 537.1	355-46-4	Perfluorohexanesulfonic acid (PFHxS)
537, 537.1	375-95-1	Perfluorononanoic acid (PFNA)
537, 537.1	375-85-9	Perfluorohexanoic acid (PFHxA)
537, 537.1	335-76-2	Perfluorodecanoic acid (PFDA)
537, 537.1	375-73-5	Perfluorobutanesulfonic acid (PFBS)
537, 537.1	307-55-1	Perfluorododecanoic acid (PFDoA)
537, 537.1	307-24-4	Perfluorohexanoic acid (PFHxA)
537, 537.1	376-06-7	Perfluorotetradecanoic acid (PFTA)
537, 537.1	72629-94-8	Perfluorotridecanoic acid (PFTrDA)
537, 537.1	2058-94-8	Perfluoroundecanoic acid (PFUnA)
537, 537.1	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537, 537.1	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537.1	763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
537.1	756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)
537.1	919005-14-4	4,8-dioxo-3H-perfluorononanoic acid (ADONA)
537.1	13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)

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

MassDEP has established a maximum contaminant level (MCL) of 20 ng/L for PFAS6.

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Sample ID: 300442608

Customer ID: RAW

Collection Date: 11/07/2023 13:00

PWS ID# / LOC ID#: RAW

Project: FEE-RANDOLPHHOLBROOK-23-000014

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Analyzed	Analyst
PFBS	375-73-5	2.50	0.95	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFHxA	307-24-4	3.24	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
HFPO-DA	13252-13-6	ND	1.14	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFHpA	375-85-9	2.09	0.70	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFHxS	355-46-4	2.33	0.83	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
ADONA	919005-14-4	ND	0.63	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFOA	335-67-1	5.03	0.76	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFOS	1763-23-1	8.69	1.01	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFNA	375-95-1	1.04	0.72	2.0	ng/L	1.0	J	EPA537.1	11/17/23 2132	CSS
9CI-PF3ONS	756426-58-1	ND	0.84	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFDA	335-76-2	ND	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFUnA	2058-94-8	ND	0.94	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
11CI-PF3OUdS	763051-92-9	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
NMeFOSAA	2355-31-9	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
NEtFOSAA	2991-50-6	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFDoA	307-55-1	ND	0.90	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFTTrDA	72629-94-8	ND	0.93	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFTA	376-06-7	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2132	CSS
PFAS6 (MassDEP)		18.14	2.00	2.0	ng/L					
Surrogates					Results			Recovery Limits		Pass/Fail
13C-PFHxA (SUR) % Recovery					87.60			70 - 130		Pass
13C3-HFPO-DA (SUR) % Recovery					86.20			70 - 130		Pass
13C-PFDA (SUR) % Recovery					94.90			70 - 130		Pass
d5-NEtFOSAA (SUR) % Recovery					77.40			70 - 130		Pass

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300442608	PFAS_537	537_EXT-231114-1	250	11/14/2023

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Sample ID: 300442609

Customer ID: FB - RAW

Collection Date: 11/07/2023 13:00

PWS ID# / LOC ID#: FB - RAW

Project: FEE-RANDOLPHHOLBROOK-23-000014

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Analyzed	Analyst
PFBS	375-73-5	ND	0.95	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFHxA	307-24-4	ND	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
HFPO-DA	13252-13-6	ND	1.14	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFHpA	375-85-9	ND	0.70	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFHxS	355-46-4	ND	0.83	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
ADONA	919005-14-4	ND	0.63	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFOA	335-67-1	ND	0.76	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFOS	1763-23-1	ND	1.01	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFNA	375-95-1	ND	0.72	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
9CI-PF3ONS	756426-58-1	ND	0.84	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFDA	335-76-2	ND	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFUnA	2058-94-8	ND	0.94	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
11CI-PF3OUdS	763051-92-9	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
NMeFOSAA	2355-31-9	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
NEtFOSAA	2991-50-6	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFDoA	307-55-1	ND	0.90	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFTTrDA	72629-94-8	ND	0.93	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFTA	376-06-7	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2147	CSS
PFAS6 (MassDEP)		ND	2.00	2.0	ng/L					

Surrogates	Results	Recovery Limits	Pass/Fail
13C-PFHxA (SUR) % Recovery	98.50	70 - 130	Pass
13C3-HFPO-DA (SUR) % Recovery	91.40	70 - 130	Pass
13C-PFDA (SUR) % Recovery	90.10	70 - 130	Pass
d5-NEtFOSAA (SUR) % Recovery	80.90	70 - 130	Pass

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300442609	PFAS_537	537_EXT-231114-1	250	11/14/2023

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Sample ID: 300442610

Customer ID: FINISHED

Collection Date: 11/07/2023 13:00

PWS ID# / LOC ID#: 4244001/10296

Project: FEE-RANDOLPHHOLBROOK-23-000014

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Analyzed	Analyst
PFBS	375-73-5	2.44	0.95	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFHxA	307-24-4	3.63	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
HFPO-DA	13252-13-6	ND	1.14	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFHpA	375-85-9	2.02	0.70	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFHxS	355-46-4	2.22	0.83	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
ADONA	919005-14-4	ND	0.63	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFOA	335-67-1	5.25	0.76	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFOS	1763-23-1	11.07	1.01	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFNA	375-95-1	1.38	0.72	2.0	ng/L	1.0	J	EPA537.1	11/17/23 2201	CSS
9CI-PF3ONS	756426-58-1	ND	0.84	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFDA	335-76-2	ND	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFUnA	2058-94-8	ND	0.94	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
11CI-PF3OUdS	763051-92-9	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
NMeFOSAA	2355-31-9	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
NEtFOSAA	2991-50-6	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFDaA	307-55-1	ND	0.90	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFTTrDA	72629-94-8	ND	0.93	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFTA	376-06-7	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2201	CSS
PFAS6 (MassDEP)		20.56	2.00	2.0	ng/L					
Surrogates					Results			Recovery Limits		Pass/Fail
13C-PFHxA (SUR) % Recovery					90.80			70 - 130		Pass
13C3-HFPO-DA (SUR) % Recovery					90.60			70 - 130		Pass
13C-PFDA (SUR) % Recovery					97.20			70 - 130		Pass
d5-NEtFOSAA (SUR) % Recovery					80.80			70 - 130		Pass

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300442610	PFAS_537	537_EXT-231114-1	250	11/14/2023

Sample ID: 300442611

Customer ID: FB - FINISHED

Collection Date: 11/07/2023 13:00

PWS ID# / LOC ID#: FB - FINISHED

Project: FEE-RANDOLPHHOLBROOK-23-000014

Analyte	CAS#	Results	MDL	RL	Units	Dilution	Qualifier	Method	Analized	Analyst
PFBS	375-73-5	ND	0.95	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFHxA	307-24-4	ND	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
HFPO-DA	13252-13-6	ND	1.14	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFHpA	375-85-9	ND	0.70	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFHxS	355-46-4	ND	0.83	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
ADONA	919005-14-4	ND	0.63	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFOA	335-67-1	ND	0.76	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFOS	1763-23-1	ND	1.01	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFNA	375-95-1	ND	0.72	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
9CI-PF3ONS	756426-58-1	ND	0.84	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFDA	335-76-2	ND	0.75	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFUnA	2058-94-8	ND	0.94	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
11CI-PF3OUdS	763051-92-9	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
NMeFOSAA	2355-31-9	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
NEtFOSAA	2991-50-6	ND	1.15	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFDaA	307-55-1	ND	0.90	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFTTrDA	72629-94-8	ND	0.93	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFTA	376-06-7	ND	1.04	2.0	ng/L	1.0		EPA537.1	11/17/23 2216	CSS
PFAS6 (MassDEP)		ND	2.00	2.0	ng/L					
Surrogates			Results		Recovery Limits		Pass/Fail			
13C-PFHxA (SUR) % Recovery			93.20		70 - 130		Pass			
13C3-HFPO-DA (SUR) % Recovery			93.20		70 - 130		Pass			
13C-PFDA (SUR) % Recovery			92.70		70 - 130		Pass			
d5-NEtFOSAA (SUR) % Recovery			83.90		70 - 130		Pass			

Sample Extraction Data:

Lab Number (Field ID)	Prep Method	Batch	Final (mL)	Date
300442611	PFAS_537	537_EXT-231114-1	250	11/14/2023

Regional Water Authority 90 Sargent Dr, New Haven, CT 06511 Phone: 203-401-2700 Fax: 203-401-6799				Chain of Custody Form			
Company Name RANDOLPH/HOLBROOK JOINT WATER		Company Address 275 POND ST. RANDOLPH, MA 02368		State Sample Collected: CT <u>NY</u> Other(specify) <u> </u> Evidence of Cooling (Circle): <u>D</u> or N Cooler Temp °C: <u>2.3</u> Container & Preservative Meet Criteria (Circle): <u>Yes</u> No			
Sampler PAUL HENNESSY		PO Number 02368		LOT # SLCN1650 LOT # SLCN1665			
RWA LIMS Number 300442408		Date Collected 11/7/23		Test Requested, Container, & Preservative			
Time Collected 1 PM		Sample ID / Sample Location ① RAW		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Time Collected 1 PM		Sample ID / Sample Location ② FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ③ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ④ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑤ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑥ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑦ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑧ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑨ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑩ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑪ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑫ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑬ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑭ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑮ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑯ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑰ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑱ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑲ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ⑳ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ㉑ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ㉒ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ㉓ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ㉔ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ㉕ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ㉖ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/23		Sample ID / Sample Location ㉗ FINISHED		PFAS Poured Field Blank & Tris (Hydroxymethyl) Aminomethane 250mL Plastic w/Tris Hydrochloride 4			
Date Collected 11/7/2							

South Central Connecticut Regional Water Authority PFAS QA/QC Summary

Extraction Batch QC for: EPA 537.1

MA Lab Cert.#: M-CT004

Extraction Batch Date: 11/14/2023

Sample ID for LFSM/LFSMD: 300442648

Analyte	LFSM %Recovery	LFSMD %Recovery	RPD of LFSM/LFSMD	LRB (MRL is 2)		LFB 2.0 ng/L %Recovery
	Acceptance Range 70-130%	Acceptance Range 70-130%	Acceptance Limit <30%	Result, ng/L	Meets < 1/3 of MRL criteria?	Acceptance Range 50-150%
PFBS	87.7	84.7	3.3	ND	[Y]	98.0
PFHxA	88.0	84.1	4.3	ND	[Y]	101.0
HFPO-DA	84.9	76.0	10.9	ND	[Y]	110.5
PFHpA	90.0	81.9	9.2	ND	[Y]	97.0
PFHxS	90.4	87.0	3.6	ND	[Y]	98.5
ADONA	84.9	83.0	2.3	ND	[Y]	102.0
PFOA	91.3	88.5	3.0	ND	[Y]	102.5
PFOS	94.7	86.6	8.1	ND	[Y]	108.0
PFNA	96.0	88.6	7.9	ND	[Y]	96.5
9CI-PF3ONS	89.3	88.7	0.7	ND	[Y]	97.0
PFDA	98.1	90.1	8.4	ND	[Y]	104.0
PFUnA	94.4	90.8	3.9	ND	[Y]	95.0
11CI-PF3OUdS	87.3	85.1	2.5	ND	[Y]	104.0
NMeFOSAA	84.8	85.7	1.1	ND	[Y]	112.0
NEtFOSAA	92.0	86.9	5.7	ND	[Y]	91.5
PFDoA	85.8	83.6	2.6	ND	[Y]	94.0
PFTTrDA	83.7	78.2	6.8	ND	[Y]	95.5
PFTA	77.0	77.7	0.9	ND	[Y]	99.5

Surrogate %Recovery

¹³ C ₂ -PFHxA	¹³ C ₃ -HFPO-DA	¹³ C ₂ -PFDA	^d ₅ -NEtFOSAA	
94.30	90.20	103.20	88.10	LFSM
88.50	84.40	94.40	82.30	LFSMD
103.20	99.00	101.10	95.90	LRB
96.50	88.70	96.20	94.00	LFB

Note: The Surrogate %Recovery for Samples and Poured Field Blanks is included on Final Reports.

All Batch QC passes method criteria unless noted in "Comments" section below

Comments: The matrix spike data is **NOT** from a sample in this upload batch.

LRB = Laboratory Reagent Blank

RPD = relative percent difference

FB = Field Blank

ND = Non-Detect

LFB = Laboratory Fortified Blank

MRL = Method Reporting Level

Results are ng/L (ppt)

LFSM = Laboratory Fortified Sample Matrix

LFSM/LFSMD spike concentration is 20 ng/L, unless noted otherwise

LFSMD = Laboratory Fortified Sample Matrix Duplicate

Surrogate Acceptance Limit is 70 - 130% Recovery