



Department of
Environmental
Conservation

PFAS Sampling Results

(SPILL NO. 2400692)

POUND RIDGE, NY

DECEMBER 2024

Kathy Hochul, Governor | Sean Mahar, Interim Commissioner

1.0 Introduction

The NYSDEC was informed of per- and polyfluoroalkyl substances (PFAS) chemicals found in public supply wells in the Hamlet of Scotts Corners located within the Town of Pound Ridge. The NYSDEC then began a groundwater investigation of Scotts Corners starting in 2024. The sampling area, Pound Ridge Square Shopping center, is located at 55 Westchester Avenue in the Hamlet of Pound Ridge in Westchester County. The surrounding area is commercial and residential. The property consists of several commercial businesses, a grocery store, and parking lot area. To the west of the property are multiple commercial buildings including restaurants, a dry cleaner, and a fire department. To the south, the shopping center is bounded by Westchester Ave and commercial buildings. The rest of the shopping center is immediately surrounded by wooded areas and residences. NYSDEC received access to the monitoring wells from the property owner who cooperated with NYSDEC to complete two groundwater sampling events on July 8th and September 3rd, 2024.

2.0 Groundwater Sampling Collection

The following summarizes the field activities conducted at the Pound Ridge Square Shopping Center. The field activities consisted of groundwater sample collection from two locations on the property.

On July 8th and September 3rd, 2024, groundwater samples were collected in substantial compliance with Department policies, programs, and procedures, as applicable, including 6 NYCRR Part 375, DER-10, NYSDEC's *Sampling, Analysis, and Assessment of PFAS* guidance document. Samples were analyzed at an ELAP certified laboratory. Prior to any groundwater sampling, the wells were inspected and redeveloped by purging.

At each location, groundwater samples were collected using a low flow pumping method. A 0.25-inch diameter high density polyethylene (HDPE) tube was lowered into the well to approximately the mid-point in the water column. A peristaltic pump was used to control flow rate and a water level interface probe was used to monitor drawdown of the groundwater in the well. A multi-parameter meter (YSI) was used to monitor water quality parameters, including pH, conductivity, Oxidation-Reduction Potential, turbidity, and dissolved oxygen, until stabilization targets for each parameter was reached.

All purge water was containerized and disposed at a water treatment facility. All tubing and materials that contacted the groundwater was disposed after each sample. New HDPE and silicone tubing was used for each sample.

Samples were placed into laboratory supplied containers and then placed in a cooler with ice. For each of the two sampling events five groundwater samples were collected, each of which included two environmental samples a duplicate and two matrix spike samples.

Samples were submitted to a NYSDEC standby contracted laboratory (Eurofins) for analysis of per- and polyfluoroalkyl substances (PFAS) via Method 1633 and artificial sweeteners (Sucralose and Acesulfame-k) via Method L221.

A site location map with groundwater sampling locations is provided as Figure 1. Well construction and field notes are included as Appendix A. Laboratory analytical reports, and tables for PFAS are included as Appendix B.

3.0 Results

PFAS were detected in samples taken from MW-1 and MW-2 during both sampling events. Sample results were compared to New York Division of Water Technical and Operational Guidance Series (TOGS) No 1.1.1 for PFOA and PFOS of 10 parts per trillion (ppt).

PFOS was detected exceeding guidance levels at a maximum of 31 ppt in the first sampling event and at 38 ppt in the second. Exceedances of PFOS were found in the samples taken from both MW-1 and MW-2 in the first sampling event and only in MW-1 for the second event.

PFOA was detected exceeding guidance levels at a maximum of 410 ppt in the first sampling event and 610 ppt in the second. Exceedances of PFOA were found in the samples taken from both MW-1 and MW-2 and both sampling events.

Sucralose and Acesulfame-k were analyzed to determine if shallow groundwater is being influenced by septic systems in the surrounding area. Analytical results for all parameters are summarized in Table 1.

References

NYSDEC. 2023. 2023 Addendum to June 1998 Division of Water Technical and Operational Guidance Series (TOGS) No 1.1.1.

https://extapps.dec.ny.gov/docs/water_pdf/togs111addendum2023.pdf

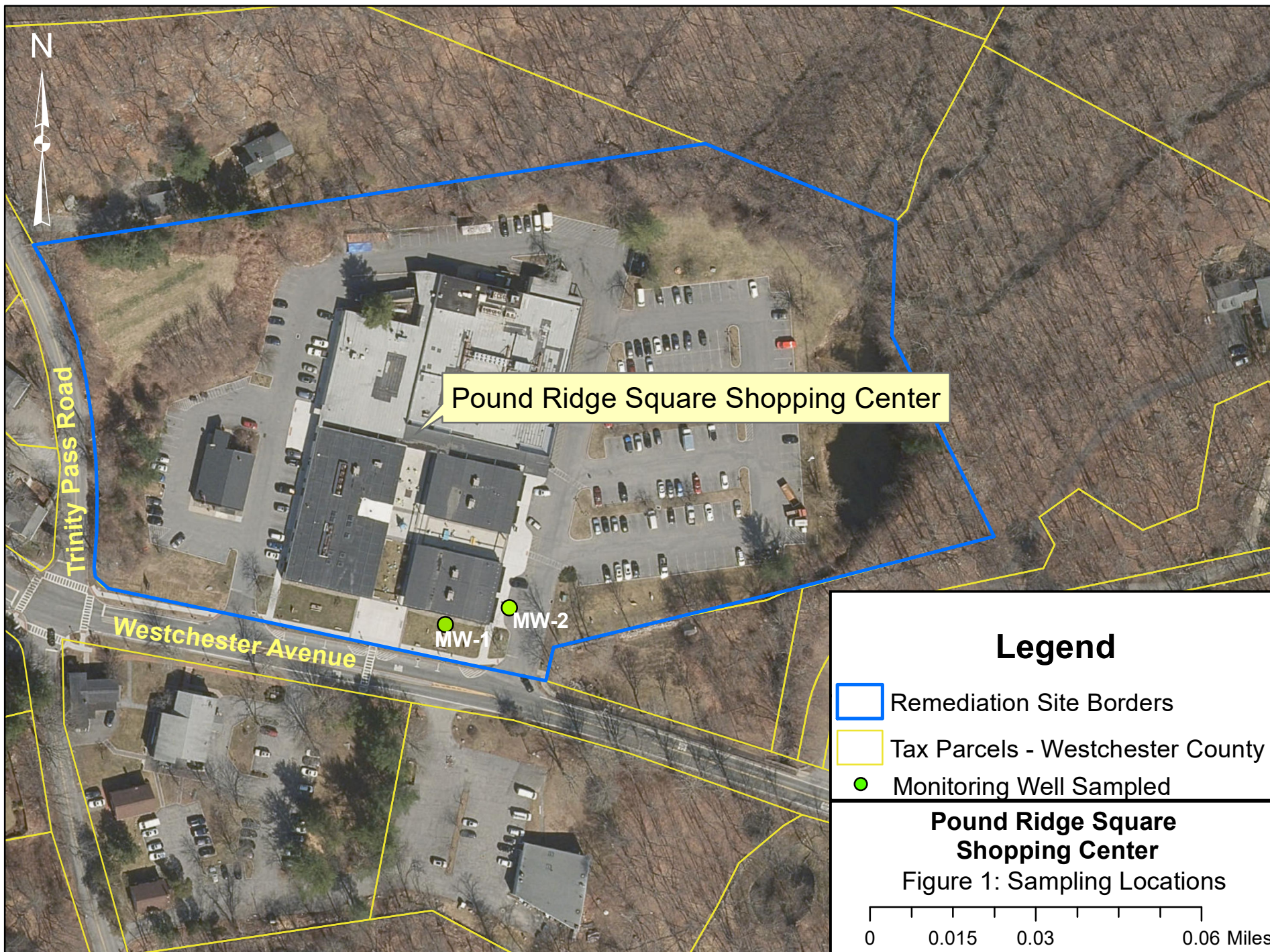
NYSDEC. 2021. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS).

https://www.dec.ny.gov/docs/remediation_hudson_pdf/pfassampanaly.pdf

NYSDEC. 2006. 6 NYCRR Part 375, Environmental Remediation Programs, Subparts 375-1 to 375-4 & 375-6.

https://www.dec.ny.gov/docs/remediation_hudson_pdf/part375.pdf

Figures



Legend

 Monitoring Well

 Pound Ridge Square Shopping Center

 Local Streets



Groundwater		
Analyte	Units	NY Class GA ¹
PFOA	ppt	6.7
PFOS	ppt	2.7

¹TOGS No. 1.1.1, 2023 Addendum, Class GA guidance values

ppt - parts per trillion

Highlight - Indicates analyte was detected above the Class GA guidance value

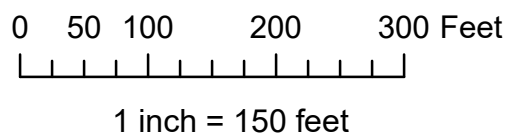
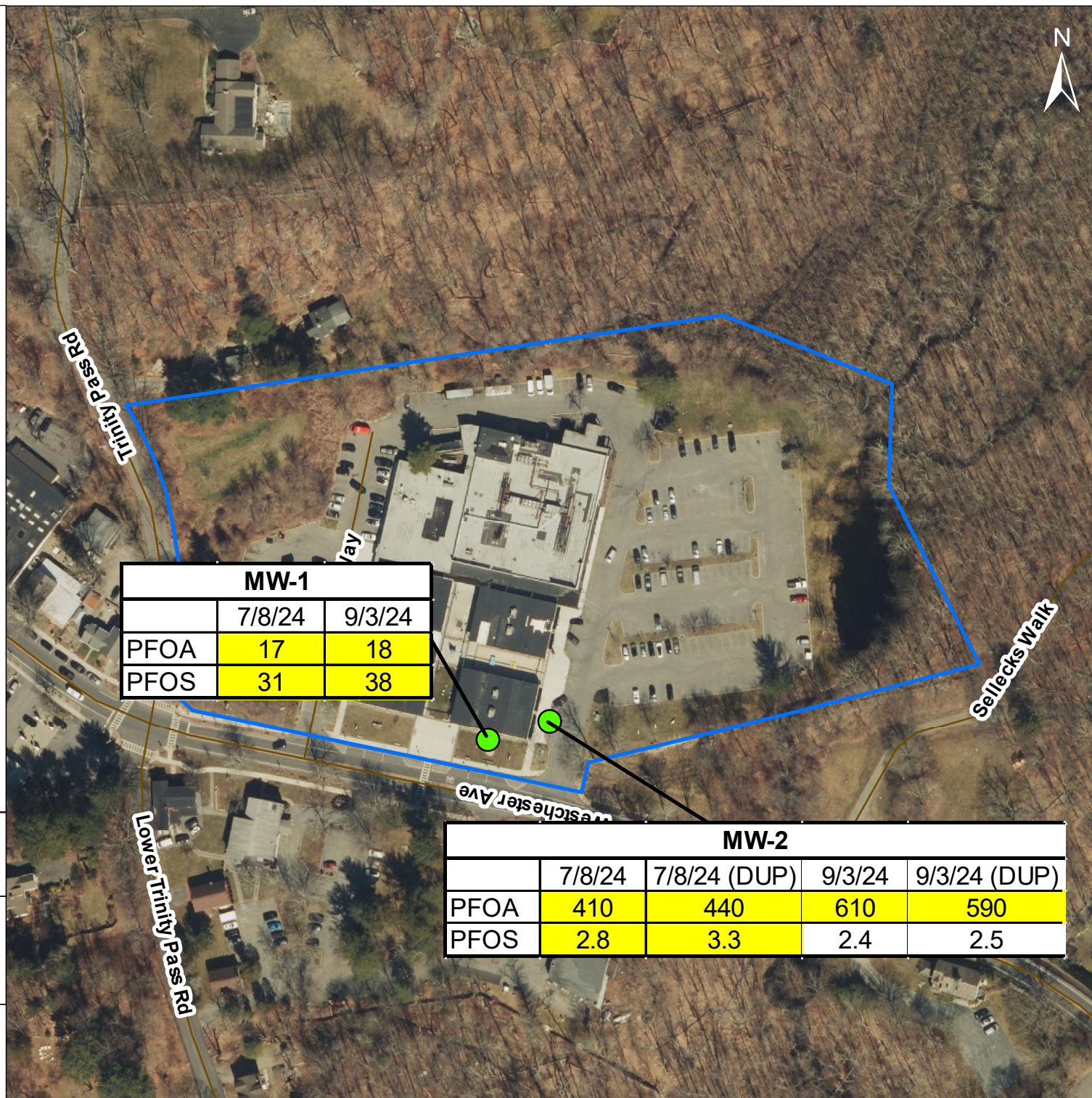


Figure 2: PFOA and PFOS Groundwater Results

Pound Ridge Square Shopping Center



Department of
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Tables

Groundwater Sampling Analytical Data of Detected Parameters

Location Sample Date Sample Name	Analytical Units	NYS AWQSGV & Awareness Levels	MW-1 7/8/2024 MW-1-27-20240708	MW-2 7/8/2024 MW-2-15-20240708	MW-2 7/8/2024 DUP-20240708	MW-1 9/3/2024 MW-1-20240903	MW-2 9/3/2024 MW-2-20240903	MW-2 9/3/2024 DUP-20240903
Parameter								
3-Perfluoropentylpropanoic acid (5:3 FTCA)	PPT	100	ND	17	18	ND	11	13
3-Perfluoroheptyl propanoic acid	PPT	100	ND	17	17	ND	13	13
3-Perfluoropropyl propanoic acid	PPT	100	ND	2.9	3.1	ND	2.9	2.8
PERFLUOROBUTANESULFONIC ACID	PPT	100	4.4	1.7	1.6	4.4	1	1.1
Perfluorobutanoic acid (PFBA)	PPT	100	6.3	76	77	6.5	110	100
PERFLUOROHEPTANE SULFONATE (PFHpS)	PPT	100	0.47	ND	ND	ND	ND	ND
PERFLUORODECANOIC ACID (PFDA)	PPT	100	ND	230	240	ND	290	270
PERFLUORODODECANOIC ACID (PFDoA)	PPT	100	ND	33	30	ND	47	44
Perfluoroheptanoic Acid (PFHpA)	PPT	100	4.2	150	150	4.5	260	250
PERFLUOROHXANESULFONIC ACID	PPT	100	13	1.4	1.1	15	ND	ND
PERFLUOROHXANOIC ACID (PFHxA)	PPT	100	7.2	190	190	7.3	240	260
PERFLUORONONANOIC ACID	PPT	100	1.4	84	83	1.3	110	100
Perfluorooctane Sulfonamide (FOSA)	PPT	100	ND	ND	0.47	ND	0.6	0.55
PERFLUOROOCTANE SULFONIC ACID (PFOS)	PPT	2.7	31	2.8	3.3	38	2.4	2.5
PERFLUOROPENTANOIC ACID (PFPeA)	PPT	100	ND	250	250	ND	320	330
PERFLUOROTETRADECANOIC ACID (PFTeA)	PPT	100	ND	1.1	0.96	ND	0.9	0.78
PERFLUOROTRIDECANOIC ACID (PFTriA)	PPT	100	ND	5.4	5	ND	6.3	5.8
PERFLUOROUNDECANOIC ACID (PFUnA)	PPT	100	ND	67	62	ND	70	65
Perfluorooctanoic acid (PFOA)	PPT	6.7	17	410	440	18	610	590
Perfluoropentanesulfonic Acid (Pfpes)	PPT	100	0.63	ND	ND	ND	ND	ND
PERFLUOROPENTANOIC ACID (PFPeA)	PPT	100	7.7	ND	ND	7	ND	ND
TOTAL including PFOS & PFOA	PPT	500	93.3	1539.3	1572.53	102	2095.1	2048.53
Acesulfame K	PPB	-	0.21	0.031	0.03	NS	NS	NS
Sucralose	PPB	-	0.51	0.042	0.045	NS	NS	NS

ND=Non Detect

NS= Not Sampled

PPT=Parts per Trillion

PPB=Parts per Billion

Bold Results indicate an Exceedence in Guidance Values

- = No standard

Appendix A

MARIN

ENVIRONMENTAL

Trinity Corners Shopping Center
55 Westchester Avenue
Pound Ridge, New York

BORING MW-1

99-0371

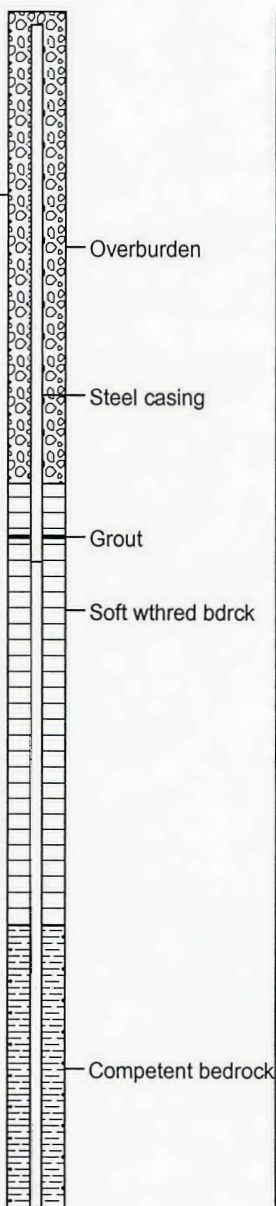
(Page 1 of 1)

DRILLING INFORMATION

Drilling Dates : 11/30/99
Total Depth : 46 feet
Drilling Company : Boyd Artesian Well
: Company, Inc.

Inspector : Brian Sirowich
Drilling method : Air rotary
Diameter : 6"

Depth in Feet	Sample ID	Lithology	DESCRIPTION	Well: MW-1 Elev.:	REMARKS	Depth in Feet
0	1		0 - 18' Brown, fine to coarse SILT, SAND and GRAVEL			0
2						2
4						4
6	2					6
8						8
10	3					10
12						12
14						14
16	4					16
18			18 - 35' Weathered white and pink SCHIST			18
20	5					20
22						22
24						24
26	6					26
28						28
30	7					30
32						32
34	8					34
36			35 - 40' Hard gray to white SCHIST			36
38						38
40			40 - 46' Pink FELDSPAR, GNEISS			40
42						42
44			End of boring at 46'			44
46						46



e LITHOLOGIC DESCRIPTION

and :35 to 50%
some :20 to 35%
little :10 to 20%
trace :0 to 10%

MARIN

ENVIRONMENTAL

Trinity Corners Shopping Center
55 Westchester Avenue
Pound Ridge, New York

99-0371

BORING MW-2

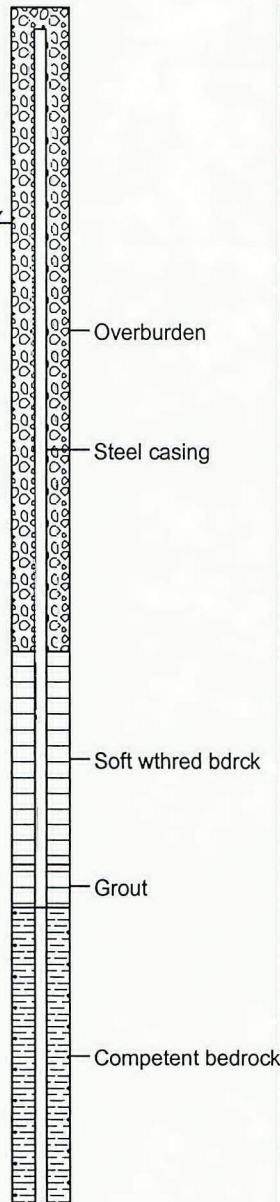
(Page 1 of 1)

DRILLING INFORMATION

Drilling Dates : 11/30/99
Total Depth : 28 feet
Drilling Company : Boyd Artesian Well
: Company, Inc.

Inspector : Brian Sirowich
Drilling method : Air rotary
Diameter : 6"

Depth in Feet	Sample ID	Lithology	DESCRIPTION	Well: MW-2 Elev.:	REMARKS	Depth in Feet
0	1		0 - 15' Brown, fine to coarse SILT, SAND and GRAVEL			0
2						2
4						4
6	2					6
8						8
10	3					10
12						12
14						14
16	4		15 - 21' Weathered SCHIST			16
18						18
20	5					20
22			21 - 28' Hard gray SCHIST			22
24						24
26	6					26
28						28



e LITHOLOGIC DESCRIPTION

and :35 to 50%
some :20 to 35%
little :10 to 20%
trace :0 to 10%

Eurofins Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins

Client Information		Sampler: <u>Michaela Cochran</u>		Lab PM: Fischer, Brian J		Carrier Tracking No(s):		COC No: 480-197792-40920.1											
Client Contact: Michaela Cochran		Phone: <u>518-402-9669</u>		E-Mail: Brian.Fischer@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1											
Company: New York State D.E.C.		PWSID:		Analysis Requested															
Address: 625 Broadway 12th Floor		Due Date Requested: <u>8/7/24</u>		<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td rowspan="5">1633_Final - 1633 Standard List 40</td> <td rowspan="5">LCMS_PPCP_NEG - Sucralose & Ace-K</td> <td rowspan="5">Total Number of containers</td> <td rowspan="5">Preservation Codes: N - None H - Ascorbic Acid</td> </tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633_Final - 1633 Standard List 40	LCMS_PPCP_NEG - Sucralose & Ace-K	Total Number of containers	Preservation Codes: N - None H - Ascorbic Acid				
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633_Final - 1633 Standard List 40	LCMS_PPCP_NEG - Sucralose & Ace-K													Total Number of containers	Preservation Codes: N - None H - Ascorbic Acid		
City: Albany		TAT Requested (days): <u>Standard (30)</u>																	
State, Zip: NY, 12233-7017		Compliance Project: ☐ Yes ☒ No																	
Phone: 518-402-9669(Tel)		PO #: Callout ID: 152002																	
Email: Michaela.cochran@dec.ny.gov		WO #:																	
Project Name: Pound Ridge Spill #2400692 PIN H7411		Project #: 48027807																	
Site: <u>Pound Ridge</u>		SSOW#:																	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)					Special Instructions/Note:									
				Preservation Code:		X	X	N	H										
<u>Dup</u>		<u>7/8/24</u>		<u>G</u>	Water	X		2	1		4								
<u>MW - 1/27'</u>			<u>11:08</u>		Water	X		3	1		4								
<u>MW - 2/15'</u>			<u>1:14 pm</u>		Water	X		3	1		4								
<u>MW - 2/15' MS</u>			<u>1:14</u>		Water	X	X	3	1		4								
<u>MW - 2/15' MSD</u>			<u>1:14</u>		Water	X	X	3	1		4								
<u>TRK</u> <u>7-8-24</u>																			
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months													
Deliverable Requested: I, II, III, IV, Other (specify) <u>EDD</u>						Special Instructions/QC Requirements:													
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:												
Relinquished by: <u>Michaela Cochran</u>			Date/Time: <u>7/8/24 1634</u>		Company: <u>NYSDEC</u>		Received by: <u>[Signature]</u>		Date/Time: <u>7-8-24 1634</u>		Company: <u>EECU</u>								

Monitoring Well Sampling Log

Well No.: MW 1

Project: Pound Ridge

Date: 7/8/24

Location: Pound Ridge

Project No.: 240069Z Spill

Casing Type: Steel

Screen Length: 10 ft.

Measuring Point: Top of casing

Well Diameter: 6 in.

Well Depth: 55.34ft.

Water Level: 6.60 FT. BTOL

Water Column: 48.74 ft

1 Volume (gal.):

Purge Device: Peri Pump

Start Purge: 10:47

Stop Purge: 11:05

Tubing Type: HDPE

Sampling Device: PUMP

Sample Time: 11.68

Sample Personnel: Michaela Cochran, Sarah Moriarty,
Matthew Ayers

Sample Analyses: 1633, L221

Notes:

Gal./ft.: 1" dia. = 0.05 gal./ft., 2" dia. = 0.18 gal./ft., 4" dia. = 0.66 gal./ft., 6" dia. = 1.5 gal./ft

Low Flow Criteria: temp $\pm 3\%$, pH ± 0.1 , cond $\pm 3\%$, redox ± 10 mv, DO & turb $\pm 10\%$, flow 100-500 ml/min.

6.60 w/c BTDC 10:27

Monitoring Well Sampling Log

Well No.: MWZ

Project: Pound Ridge

Date: 7/8/24

Location: Pound Ridge

Project No.: 2400692 Spill

Casing Type: **Steel**

Screen Length: ~~15ft~~ 15ft

Measuring Point: Top of Casing

Well Diameter: 6 in

Well Depth: 27.75 Ft.

Water Level: 4.16 Ft. BTOL

Water Column: 23.59 Ft.

1 Volume (gal.):

Purge Device: Per: PUMP

Start Purge: 12:46

Stop Purge: 1:09

Tubing Type: HDPE

Sampling Device: PUMP

Sample Time: 1:14

Sample Personnel: Michaela Cochran, Sarah Moriarty,
Matthew Ayers

Sample Analyses: 16:33, L221

Matthew Ayers

Notes:

Gal./ft.: 1" dia. = 0.05 gal./ft., 2" dia. = 0.18 gal./ft., 4" dia. = 0.66 gal./ft., 6" dia. = 1.5 gal./ft

Low Flow Criteria: temp $\pm 3\%$, pH ± 0.1 , cond $\pm 3\%$, redox ± 10 mv, DO & turb $\pm 10\%$, flow 100-500 ml/min.

[illegible]
$$\text{Volume} = \text{Rate} \times 3 \text{ min} \times \frac{\text{gallons}}{\text{conversion}}$$

Phone: 716-691-2600 Fax: 716-691-7991

Environment Testing

Phone: 716-691-2600 Fax: 716-691-7991		Sample: Michaela Cochran		Lab PM: Fischer, Brian J		Carrier Tracking No(s):		COC No: 480-198889-41092.1							
Client Information Client Contact: Michaela Cochran		Phone:		E-Mail: Brian.Fischer@et.eurofinsus.com		State of Origin: NY		Page Page 1 of 1							
Company: New York State D.E.C.		PWSID:		Analysis Requested						Job #:					
Address: 625 Broadway 12th Floor		Due Date Requested: 9/20/24								Preservation Codes: N - None					
City: Albany		TAT Requested (days): 30								Other:					
State, Zip: NY, 12233-7017		Compliance Project: Δ Yes Δ No													
Phone: 518-402-9669(Tel)		PO #: Callout ID: 152002													
Email: Michaela.cochran@dec.ny.gov		WO #:													
Project Name: Pound Ridge Spill #2400692 PIN H7411		Project #: 48027807		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 1633_Final - 1633 Standard List 40						Total Number of containers					
Site: Pound Ridge		SSOW#:								Special Instructions/Note:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 1633_Final - 1633 Standard List 40		Total Number of containers		Special Instructions/Note:	
DUP		9/3/24		8/21/24		G		Water		X		N		X	
MW-1		↓		MC 1:20pm		↓		Water		X		3		3	
MW-2		↓		2:30pm		↓		Water		X		3		3	
MW-2-MS		↓		↓		↓		Water		XX		3		3	
MW-2-MSD		↓		↓		↓		Water		XX		3		3	
														SWK 9/4/24	
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) Cat B / EDD										Special Instructions/QC Requirements:					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:							
Relinquished by: Michaela Cochran				Date/Time: 8:00am 9/4/24		Company: NYSDEC		Received by: Shannon Velt Koch				Date/Time: 9/4/24 8:00am		Company: EETN	
Relinquished by:				Date/Time:		Company:		Received by:				Date/Time:		Company:	
Relinquished by:				Date/Time:		Company:		Received by:				Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:									

Monitoring Well Sampling Log

Site # <u>Spill 2400692</u>	Date: <u>8/14/24 9/3/24</u>
Site Location: <u>Pound Ridge/Scott's Corners</u>	Personnel: <u>Michaela C., Matt A., Sam</u>
Well ID: <u>MW-2</u>	Tubing Type: <u>HDPE</u>
Casing Type: <u>Steel</u>	Sample Pump: <u>Peri</u>
Measuring Point: <u>top of casing</u>	Monitoring Equipment: <u>Horiba U-52</u>
Well Diameter (inches): <u>6"</u>	Screen Setting (ft btoc): <u>15'</u>
Well Total Depth (ft btoc): _____	Tubing Intake (ft btoc): <u>20'</u>
Depth to Water (btoc): <u>3.96'</u>	Comments: _____

Well Condition: _____

Well Purging Information:

Water Column Length (ft): _____	State Purge Time: <u>1:40 pm</u>
1 Volume (gal.): _____	Stop Purge Time: <u>2:30 pm</u>
Purge Device/Tubing: _____	Total Volume Removed (gal.): <u>3 gal</u>
Gallons/ft.: 1" dia. = 0.05 gal./ft., 2" dia. = 0.18 gal./ft., 4" dia. = 0.66 gal./ft., 6" dia. = 1.5 gal./ft	

Time	Depth to Water (ft btoc)	Pumping Rate (ml/min)	Water Quality Monitoring Parameters							Remarks
			pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mV)	Volume (if purging)	
1:46	4.10	250	7.64	0.246	116	0.58	22.09	-302	0.200	
1:49	4.18		7.61	0.227	12.9	0.44	21.54	-319		
1:52	4.32		7.75	0.218	14.8	0.36	21.64	-346		
1:55	4.41		7.88	0.218	14.4	0.34	21.53	-358		
1:58	4.51		7.90	0.216	12.5	0.32	21.66	-359		
2:01	4.63		7.89	0.212	10.6	0.31	22.10	-363		
2:04	4.65		7.95	0.210	9.8	0.29	22.94	-363		
2:07	4.72		7.95	0.209	6.2	0.28	23.24	-364		
2:10	4.79		7.88	0.210	5.0	0.28	23.28	-365		
2:13	4.79		7.92	0.210	4.5	0.37	23.32	-368		
2:16	4.79		7.97	0.211	4.1	0.28	23.38	-369		
2:19	4.81		7.94	0.213	3.9	0.27	23.45	-370		
2:22	4.81		7.94	0.214	3.8	0.26	23.60	-372		

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time (from - to)	Depth to Water (ft btoc)	Pumping Rate (ml/min)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mV)	Notes
Recommended Stabilization	±0.3	100-500	±0.1	±3%	±10% or < 5	±10% or < 0.5	± 3%	±10	
Stabilization (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Sample Time: _____	Sample Analyses: _____
ft btoc	feet below top of casing
ml/min	milliliters per minute
mS/cm	milliseimens per centimeter
NTU	Nephelometric Turbidity Units
mg/L	milligrams per liter
°C	degrees Celsius
mV	millivolts

Monitoring Well Sampling Log

Site #: spill 2400692 Date: 9/3/24
 Site Location: Pound Ridge/Scott's Corners Personnel: Michaela C., Matt A.
 Well ID: MW-1 Tubing Type: HDPE
 Casing Type: Steel Sample Pump: Peri
 Measuring Point: top of casing Monitoring Equipment: Horiba U-52
 Well Diameter (inches): 6" Screen Setting (ft btoc): 18'
 Well Total Depth (ft btoc): 27.8 ft. Tubing Intake (ft btoc): 20'
 Depth to Water (btoc): 27.8 ft. 6.4 ft Comments: _____
 Well Condition: _____

Well Purging Information:

Water Column Length (ft): _____ State Purge Time: 12:20 pm
 1 Volume (gal.): _____ Stop Purge Time: 1:20 pm
 Purge Device/Tubing: _____ Total Volume Removed (gal.): 35 gal
 Gallons/ft.: 1" dia. = 0.05 gal./ft., 2" dia. = 0.18 gal./ft., 4" dia. = 0.66 gal./ft., 6" dia. = 1.5 gal./ft

Time	Depth to Water (ft btoc)	Pumping Rate (ml/min)	Water Quality Monitoring Parameters							Remarks
			pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mV)	Volume (if purging)	
12:30	6.84	330	7.39	1.77	1.3	0.7	18.02	-309	0.260	
12:33	6.99	250	7.40	1.76	1.3	0.63	18.13	-319	0.200	
12:36	7.11	250	7.47	1.76	1.6	0.59	18.13	-330	0.200	
12:39	7.23	300	7.48	1.76	1.5	0.55	18.15	-335	0.240	
12:42	7.34	300	7.52	1.76	1.5	0.51	18.20	-341	0.240	
12:45	7.55	300	7.58	1.75	1.8	0.48	18.15	-350	0.240	
12:48	7.64	300	7.59	1.75	1.7	0.47	18.11	-352	0.240	
12:51	7.83	300	7.58	1.75	1.5	0.44	18.20	-354	0.240	
12:54	7.93	300	7.59	1.75	1.1	0.43	18.19	-354	0.240	
12:57	8.02	300	7.56	1.75	1.1	0.42	18.20	-355	0.240	
1:00	8.16	300	7.56	1.75	0.8	0.41	18.28	-356	0.240	
1:03	8.27	300	7.59	1.75	0.6	0.40	18.30	-356	0.240	
1:06	8.41	300	7.56	1.74	0.4	0.39	18.31	-357	0.240	
1:09	8.51	300	7.61	1.74	0.4	0.4	18.33	-357	0.240	
1:12	8.61	300	7.56	1.74	0.4	0.38	18.32	-358	0.240	

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time (from - to)	Depth to Water (ft btoc)	Pumping Rate (ml/min)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp. (°C)	ORP (mV)	Notes
Recommended Stabilization	±0.3	100-500	±0.1	±3%	±10% or < 5	±10% or < 0.5	± 3%	±10	
Stabilization (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Sample Time:	Sample Analyses:					
ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units		°C	degrees Celsius
ml/min	milliliters per minute	mg/L	milligrams per liter		mV	millivolts
mS/cm	milliseimens per centimeter					

Appendix B

ANALYTICAL REPORT

PREPARED FOR

Attn: Michaela Cochran
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Generated 7/31/2024 11:12:00 AM

JOB DESCRIPTION

Pound Ridge Spill #2400692 PIN H7411

JOB NUMBER

480-221475-1

Eurofins Buffalo

Job Notes

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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 Environment Testing Northeast, LLC Project Manager.

Compliance Statement

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Authorization



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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.
□	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: New York State D.E.C.
Project: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Job ID: 480-221475-1

Eurofins Buffalo

Job Narrative 480-221475-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/10/2024 10:30 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 was 4.7° C.

Receipt Exceptions

pH>4; needs adjusted.

DUP (480-221475-1), MW-1-27 (480-221475-2), MW-2-15 (480-221475-3), MW-2-15 (480-221475-3[MS]) and MW-2-5 (480-221475-3[MSD])

LCMS

Method 1633: The laboratory control sample (LCS) for preparation batch 240-619826 and analytical batch 240-620220 recovered outside control limits for the following analytes: Perfluoroheptanesulfonic acid (PFHpS). A low-level LCS (LLCS), spiked at 2x the reporting limit (RL), was prepared with this batch. The affected target analytes recovered within acceptance limits; therefore, the LLCS demonstrates the analytical system had sufficient sensitivity to detect the compounds had they been present. Since the affected target compounds were not detected or in the range of the LLCS in the samples, the data have been reported and qualified.

Method 1633: The closing CCV and CCB for analytical batch 240-620220 were out of the recommended order, data quality is unaffected, therefore data is reported.

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

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Detection Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: DUP

Lab Sample ID: 480-221475-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	77		3.2	0.80	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	250		1.6	0.48	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	190		1.6	0.40	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	150		1.6	0.41	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	83		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	240		1.6	0.40	ng/L	1		1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	62		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorododecanoic acid (PFDoA)	30		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorotridecanoic acid (PFTTrDA)	5.0		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorotetradecanoic acid (PFTeDA)	0.96	J	1.6	0.40	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.6		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.6	0.40	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.3		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.47	J	1.6	0.40	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	3.1	J	3.2	0.80	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	18		8.0	2.0	ng/L	1		1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	17		8.0	2.0	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA) - DL	440		16	4.3	ng/L	10		1633	Total/NA
Acesulfame K	0.030		0.020	0.0020	ug/L	1		PPCP NEG	Total/NA
Sucralose	0.045	J	0.10	0.014	ug/L	1		PPCP NEG	Total/NA

Client Sample ID: MW-1-27

Lab Sample ID: 480-221475-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.3		3.5	0.87	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	7.7		1.7	0.52	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	7.2		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.2		1.7	0.44	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	17		1.7	0.47	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.4		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.63	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.47	J *	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	31		1.7	0.43	ng/L	1		1633	Total/NA
Acesulfame K	0.21		0.020	0.0020	ug/L	1		PPCP NEG	Total/NA
Sucralose	0.51		0.10	0.014	ug/L	1		PPCP NEG	Total/NA

Client Sample ID: MW-2-15

Lab Sample ID: 480-221475-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	76		3.4	0.86	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	250		1.7	0.52	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	190		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	150		1.7	0.44	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	84		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	230		1.7	0.43	ng/L	1		1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	67		1.7	0.43	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: MW-2-15 (Continued)

Lab Sample ID: 480-221475-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorododecanoic acid (PFDoA)	33		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorotridecanoic acid (PFTrDA)	5.4		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorotetradecanoic acid (PFTeDA)	1.1	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7		1.7	0.43	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.7	0.43	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		1.7	0.43	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	3.4	0.86	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	17		8.6	2.1	ng/L	1		1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	17		8.6	2.1	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA) - DL	410		17	4.6	ng/L	10		1633	Total/NA
Acesulfame K	0.031		0.020	0.0020	ug/L	1		PPCP NEG	Total/NA
Sucralose	0.042	J	0.10	0.014	ug/L	1		PPCP NEG	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: DUP

Lab Sample ID: 480-221475-1

Date Collected: 07/08/24 00:00

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	77		3.2	0.80	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoropentanoic acid (PFPeA)	250		1.6	0.48	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorohexanoic acid (PFHxA)	190		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoroheptanoic acid (PFHpA)	150		1.6	0.41	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorononanoic acid (PFNA)	83		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorodecanoic acid (PFDA)	240		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoroundecanoic acid (PFUnA)	62		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorododecanoic acid (PFDoA)	30		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorotridecanoic acid (PFTTrDA)	5.0		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorotetradecanoic acid (PFTeDA)	0.96	J	1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorobutanesulfonic acid (PFBS)	1.6		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoroheptanesulfonic acid (PFHpS)	ND	*-	1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorooctanesulfonic acid (PFOS)	3.3		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.2	0.92	ng/L		07/15/24 08:41	07/17/24 15:56	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.2	0.82	ng/L		07/15/24 08:41	07/17/24 15:56	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.2	0.80	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorooctanesulfonamide (PFOSA)	0.47	J	1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.53	ng/L		07/15/24 08:41	07/17/24 15:56	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.0	2.4	ng/L		07/15/24 08:41	07/17/24 15:56	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.0	2.0	ng/L		07/15/24 08:41	07/17/24 15:56	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.37	ng/L		07/15/24 08:41	07/17/24 15:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: DUP

Lab Sample ID: 480-221475-1

Date Collected: 07/08/24 00:00

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	3.1	J	3.2	0.80	ng/L		07/15/24 08:41	07/17/24 15:56	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	18		8.0	2.0	ng/L		07/15/24 08:41	07/17/24 15:56	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	17		8.0	2.0	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.40	ng/L		07/15/24 08:41	07/17/24 15:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72.8		5 - 130	07/15/24 08:41	07/17/24 15:56	1
13C5 PFPeA	76.6		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C5 PFHxA	75.5		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C4 PFHpA	76.2		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C8 PFOA	69.5		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C9 PFNA	78.9		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C6 PFDA	76.1		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C7 PFUnA	79.0		30 - 130	07/15/24 08:41	07/17/24 15:56	1
13C2 PFTeDA	57.1		10 - 130	07/15/24 08:41	07/17/24 15:56	1
13C3 PFBS	89.1		40 - 135	07/15/24 08:41	07/17/24 15:56	1
13C3 PFHxS	77.0		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C8 PFOS	82.9		40 - 130	07/15/24 08:41	07/17/24 15:56	1
13C8 PFOSA	49.5		40 - 130	07/15/24 08:41	07/17/24 15:56	1
d3-NMeFOSAA	52.6		40 - 170	07/15/24 08:41	07/17/24 15:56	1
d5-NEtFOSAA	51.5		25 - 135	07/15/24 08:41	07/17/24 15:56	1
M2-4:2 FTS	101		40 - 200	07/15/24 08:41	07/17/24 15:56	1
M2-6:2 FTS	74.6		40 - 200	07/15/24 08:41	07/17/24 15:56	1
M2-8:2 FTS	68.9		40 - 300	07/15/24 08:41	07/17/24 15:56	1
13C3 HFPO-DA	76.6		40 - 130	07/15/24 08:41	07/17/24 15:56	1
d7-N-MeFOSE-M	19.9		10 - 130	07/15/24 08:41	07/17/24 15:56	1
d9-N-EtFOSE-M	15.6		10 - 130	07/15/24 08:41	07/17/24 15:56	1
d5-NEtPFOSA	40.3		10 - 130	07/15/24 08:41	07/17/24 15:56	1
D3-NMeFOSA	43.3		10 - 130	07/15/24 08:41	07/17/24 15:56	1
13C2-PFDoDA	74.5		10 - 130	07/15/24 08:41	07/17/24 15:56	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	440		16	4.3	ng/L		07/15/24 08:41	07/22/24 12:55	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	134	*5+	5 - 130				07/15/24 08:41	07/22/24 12:55	10
13C5 PFPeA	129		40 - 130				07/15/24 08:41	07/22/24 12:55	10
13C5 PFHxA	120		40 - 130				07/15/24 08:41	07/22/24 12:55	10
13C4 PFHpA	121		40 - 130				07/15/24 08:41	07/22/24 12:55	10
13C8 PFOA	117		40 - 130				07/15/24 08:41	07/22/24 12:55	10
13C9 PFNA	125		40 - 130				07/15/24 08:41	07/22/24 12:55	10

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: DUP

Lab Sample ID: 480-221475-1

Date Collected: 07/08/24 00:00

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	117		40 - 130	07/15/24 08:41	07/22/24 12:55	10
13C7 PFUnA	0.179	*5-	30 - 130	07/15/24 08:41	07/22/24 12:55	10
13C2 PFTeDA	80.9		10 - 130	07/15/24 08:41	07/22/24 12:55	10
13C3 PFBS	133		40 - 135	07/15/24 08:41	07/22/24 12:55	10
13C3 PFHxS	131	*5+	40 - 130	07/15/24 08:41	07/22/24 12:55	10
13C8 PFOS	120		40 - 130	07/15/24 08:41	07/22/24 12:55	10
13C8 PFOSA	84.1		40 - 130	07/15/24 08:41	07/22/24 12:55	10
d3-NMeFOSAA	87.0		40 - 170	07/15/24 08:41	07/22/24 12:55	10
d5-NEtFOSAA	87.9		25 - 135	07/15/24 08:41	07/22/24 12:55	10
M2-4:2 FTS	133		40 - 200	07/15/24 08:41	07/22/24 12:55	10
M2-6:2 FTS	127		40 - 200	07/15/24 08:41	07/22/24 12:55	10
M2-8:2 FTS	130		40 - 300	07/15/24 08:41	07/22/24 12:55	10
13C3 HFPO-DA	123		40 - 130	07/15/24 08:41	07/22/24 12:55	10
d7-N-MeFOSE-M	32.1		10 - 130	07/15/24 08:41	07/22/24 12:55	10
d9-N-EtFOSE-M	22.4		10 - 130	07/15/24 08:41	07/22/24 12:55	10
d5-NEtPFOSA	62.8		10 - 130	07/15/24 08:41	07/22/24 12:55	10
D3-NMeFOSA	66.8		10 - 130	07/15/24 08:41	07/22/24 12:55	10
13C2-PFDoDA	0.410	*5-	10 - 130	07/15/24 08:41	07/22/24 12:55	10

Method: Lab SOP PPCP NEG - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acesulfame K	0.030		0.020	0.0020	ug/L			07/19/24 10:51	1
Sucralose	0.045	J	0.10	0.014	ug/L			07/19/24 10:51	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: MW-1-27

Lab Sample ID: 480-221475-2

Date Collected: 07/08/24 11:08

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.3		3.5	0.87	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluoropentanoic acid (PFPeA)	7.7		1.7	0.52	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorohexanoic acid (PFHxA)	7.2		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluoroheptanoic acid (PFHpA)	4.2		1.7	0.44	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorooctanoic acid (PFOA)	17		1.7	0.47	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorononanoic acid (PFNA)	1.4 J		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorotridecanoic acid (PFTTrDA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorotetradecanoic acid (PFTeDA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorobutanesulfonic acid (PFBS)	4.4		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluoropentanesulfonic acid (PFPeS)	0.63 J		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorohexanesulfonic acid (PFHxS)	13		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluoroheptanesulfonic acid (PFHpS)	0.47 J*-		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorooctanesulfonic acid (PFOS)	31		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.5	1.0	ng/L		07/15/24 08:41	07/17/24 16:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.5	0.90	ng/L		07/15/24 08:41	07/17/24 16:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.5	0.87	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.58	ng/L		07/15/24 08:41	07/17/24 16:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.7	2.6	ng/L		07/15/24 08:41	07/17/24 16:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.7	2.2	ng/L		07/15/24 08:41	07/17/24 16:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.3	0.40	ng/L		07/15/24 08:41	07/17/24 16:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: MW-1-27

Lab Sample ID: 480-221475-2

Date Collected: 07/08/24 11:08

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		3.5	0.87	ng/L		07/15/24 08:41	07/17/24 16:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		8.7	2.2	ng/L		07/15/24 08:41	07/17/24 16:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		8.7	2.2	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	72.9		5 - 130	07/15/24 08:41	07/17/24 16:09	1
13C5 PFPeA	70.9		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C5 PFHxA	73.2		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C4 PFHpA	71.5		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C8 PFOA	72.8		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C9 PFNA	77.0		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C6 PFDA	68.3		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C7 PFUnA	69.1		30 - 130	07/15/24 08:41	07/17/24 16:09	1
13C2 PFTeDA	55.9		10 - 130	07/15/24 08:41	07/17/24 16:09	1
13C3 PFBS	78.8		40 - 135	07/15/24 08:41	07/17/24 16:09	1
13C3 PFHxS	78.0		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C8 PFOS	73.5		40 - 130	07/15/24 08:41	07/17/24 16:09	1
13C8 PFOSA	46.1		40 - 130	07/15/24 08:41	07/17/24 16:09	1
d3-NMeFOSAA	44.4		40 - 170	07/15/24 08:41	07/17/24 16:09	1
d5-NEtFOSAA	43.7		25 - 135	07/15/24 08:41	07/17/24 16:09	1
M2-4:2 FTS	70.0		40 - 200	07/15/24 08:41	07/17/24 16:09	1
M2-6:2 FTS	72.9		40 - 200	07/15/24 08:41	07/17/24 16:09	1
M2-8:2 FTS	69.7		40 - 300	07/15/24 08:41	07/17/24 16:09	1
13C3 HFPO-DA	66.9		40 - 130	07/15/24 08:41	07/17/24 16:09	1
d7-N-MeFOSE-M	27.8		10 - 130	07/15/24 08:41	07/17/24 16:09	1
d9-N-EtFOSE-M	26.0		10 - 130	07/15/24 08:41	07/17/24 16:09	1
d5-NEtPFOSA	37.5		10 - 130	07/15/24 08:41	07/17/24 16:09	1
D3-NMeFOSA	37.9		10 - 130	07/15/24 08:41	07/17/24 16:09	1
13C2-PFDoDA	67.6		10 - 130	07/15/24 08:41	07/17/24 16:09	1

Method: Lab SOP PPCP NEG - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acesulfame K	0.21		0.020	0.0020	ug/L			07/19/24 11:19	1
Sucralose	0.51		0.10	0.014	ug/L			07/19/24 11:19	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: MW-2-15

Lab Sample ID: 480-221475-3

Date Collected: 07/08/24 13:14

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	76		3.4	0.86	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoropentanoic acid (PFPeA)	250		1.7	0.52	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorohexanoic acid (PFHxA)	190		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoroheptanoic acid (PFHpA)	150		1.7	0.44	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorononanoic acid (PFNA)	84		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorodecanoic acid (PFDA)	230		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoroundecanoic acid (PFUnA)	67		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorododecanoic acid (PFDoA)	33		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorotridecanoic acid (PFTTrDA)	5.4		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorotetradecanoic acid (PFTeDA)	1.1 J		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorobutanesulfonic acid (PFBS)	1.7		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorohexanesulfonic acid (PFHxS)	1.4 J		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoroheptanesulfonic acid (PFHpS)	ND *-		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorooctanesulfonic acid (PFOS)	2.8		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorononanesulfonic acid (PFNS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.4	0.99	ng/L		07/15/24 08:41	07/17/24 16:23	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.4	0.89	ng/L		07/15/24 08:41	07/17/24 16:23	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.4	0.86	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.7	0.58	ng/L		07/15/24 08:41	07/17/24 16:23	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		8.6	2.5	ng/L		07/15/24 08:41	07/17/24 16:23	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		8.6	2.1	ng/L		07/15/24 08:41	07/17/24 16:23	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.3	0.40	ng/L		07/15/24 08:41	07/17/24 16:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: MW-2-15

Lab Sample ID: 480-221475-3

Date Collected: 07/08/24 13:14

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	3.4	0.86	ng/L		07/15/24 08:41	07/17/24 16:23	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	17		8.6	2.1	ng/L		07/15/24 08:41	07/17/24 16:23	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	17		8.6	2.1	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.7	0.43	ng/L		07/15/24 08:41	07/17/24 16:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	67.7		5 - 130	07/15/24 08:41	07/17/24 16:23	1
13C5 PFPeA	71.1		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C5 PFHxA	69.2		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C4 PFHpA	70.2		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C8 PFOA	70.6		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C9 PFNA	74.9		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C6 PFDA	75.5		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C7 PFUnA	65.2		30 - 130	07/15/24 08:41	07/17/24 16:23	1
13C2 PFTeDA	60.0		10 - 130	07/15/24 08:41	07/17/24 16:23	1
13C3 PFBS	81.0		40 - 135	07/15/24 08:41	07/17/24 16:23	1
13C3 PFHxS	71.2		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C8 PFOS	78.7		40 - 130	07/15/24 08:41	07/17/24 16:23	1
13C8 PFOSA	44.2		40 - 130	07/15/24 08:41	07/17/24 16:23	1
d3-NMeFOSAA	46.2		40 - 170	07/15/24 08:41	07/17/24 16:23	1
d5-NEtFOSAA	46.1		25 - 135	07/15/24 08:41	07/17/24 16:23	1
M2-4:2 FTS	92.3		40 - 200	07/15/24 08:41	07/17/24 16:23	1
M2-6:2 FTS	68.3		40 - 200	07/15/24 08:41	07/17/24 16:23	1
M2-8:2 FTS	63.8		40 - 300	07/15/24 08:41	07/17/24 16:23	1
13C3 HFPO-DA	68.7		40 - 130	07/15/24 08:41	07/17/24 16:23	1
d7-N-MeFOSE-M	40.8		10 - 130	07/15/24 08:41	07/17/24 16:23	1
d9-N-EtFOSE-M	33.4		10 - 130	07/15/24 08:41	07/17/24 16:23	1
d5-NEtPFOSA	38.8		10 - 130	07/15/24 08:41	07/17/24 16:23	1
D3-NMeFOSA	39.9		10 - 130	07/15/24 08:41	07/17/24 16:23	1
13C2-PFDoDA	68.6		10 - 130	07/15/24 08:41	07/17/24 16:23	1

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	410		17	4.6	ng/L		07/15/24 08:41	07/22/24 13:08	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	107		5 - 130				07/15/24 08:41	07/22/24 13:08	10
13C5 PFPeA	94.8		40 - 130				07/15/24 08:41	07/22/24 13:08	10
13C5 PFHxA	97.9		40 - 130				07/15/24 08:41	07/22/24 13:08	10
13C4 PFHpA	93.5		40 - 130				07/15/24 08:41	07/22/24 13:08	10
13C8 PFOA	99.8		40 - 130				07/15/24 08:41	07/22/24 13:08	10
13C9 PFNA	101		40 - 130				07/15/24 08:41	07/22/24 13:08	10

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: MW-2-15

Lab Sample ID: 480-221475-3

Date Collected: 07/08/24 13:14

Matrix: Water

Date Received: 07/10/24 10:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	95.8		40 - 130	07/15/24 08:41	07/22/24 13:08	10
13C7 PFUnA	0.438	*5-	30 - 130	07/15/24 08:41	07/22/24 13:08	10
13C2 PFTeDA	75.7		10 - 130	07/15/24 08:41	07/22/24 13:08	10
13C3 PFBS	110		40 - 135	07/15/24 08:41	07/22/24 13:08	10
13C3 PFHxS	102		40 - 130	07/15/24 08:41	07/22/24 13:08	10
13C8 PFOS	101		40 - 130	07/15/24 08:41	07/22/24 13:08	10
13C8 PFOSA	70.4		40 - 130	07/15/24 08:41	07/22/24 13:08	10
d3-NMeFOSAA	69.2		40 - 170	07/15/24 08:41	07/22/24 13:08	10
d5-NEtFOSAA	74.4		25 - 135	07/15/24 08:41	07/22/24 13:08	10
M2-4:2 FTS	96.7		40 - 200	07/15/24 08:41	07/22/24 13:08	10
M2-6:2 FTS	105		40 - 200	07/15/24 08:41	07/22/24 13:08	10
M2-8:2 FTS	105		40 - 300	07/15/24 08:41	07/22/24 13:08	10
13C3 HFPO-DA	93.4		40 - 130	07/15/24 08:41	07/22/24 13:08	10
d7-N-MeFOSE-M	54.2		10 - 130	07/15/24 08:41	07/22/24 13:08	10
d9-N-EtFOSE-M	45.1		10 - 130	07/15/24 08:41	07/22/24 13:08	10
d5-NEtPFOSA	58.3		10 - 130	07/15/24 08:41	07/22/24 13:08	10
D3-NMeFOSA	60.0		10 - 130	07/15/24 08:41	07/22/24 13:08	10
13C2-PFDoDA	87.9		10 - 130	07/15/24 08:41	07/22/24 13:08	10

Method: Lab SOP PPCP NEG - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acesulfame K	0.031		0.020	0.0020	ug/L			07/19/24 11:47	1
Sucralose	0.042	J	0.10	0.014	ug/L			07/19/24 11:47	1

QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-619826/1-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 619826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.60	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.51	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.54	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.2	ng/L		07/15/24 08:41	07/17/24 15:15	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		07/15/24 08:41	07/17/24 15:15	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.67	ng/L		07/15/24 08:41	07/17/24 15:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	3.0	ng/L		07/15/24 08:41	07/17/24 15:15	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		07/15/24 08:41	07/17/24 15:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.46	ng/L		07/15/24 08:41	07/17/24 15:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUs)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-619826/1-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 619826

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		07/15/24 08:41	07/17/24 15:15	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		07/15/24 08:41	07/17/24 15:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		07/15/24 08:41	07/17/24 15:15	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	62.7		5 - 130	07/15/24 08:41	07/17/24 15:15	1
13C5 PFPeA	66.1		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C5 PFHxA	64.9		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C4 PFHpA	65.3		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C8 PFOA	60.7		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C9 PFNA	59.7		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C6 PFDA	59.1		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C7 PFUnA	59.9		30 - 130	07/15/24 08:41	07/17/24 15:15	1
13C2 PFTeDA	55.1		10 - 130	07/15/24 08:41	07/17/24 15:15	1
13C3 PFBS	64.7		40 - 135	07/15/24 08:41	07/17/24 15:15	1
13C3 PFHxS	62.8		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C8 PFOS	66.4		40 - 130	07/15/24 08:41	07/17/24 15:15	1
13C8 PFOSA	42.5		40 - 130	07/15/24 08:41	07/17/24 15:15	1
d3-NMeFOSAA	46.7		40 - 170	07/15/24 08:41	07/17/24 15:15	1
d5-NEtFOSAA	46.8		25 - 135	07/15/24 08:41	07/17/24 15:15	1
M2-4:2 FTS	65.5		40 - 200	07/15/24 08:41	07/17/24 15:15	1
M2-6:2 FTS	62.3		40 - 200	07/15/24 08:41	07/17/24 15:15	1
M2-8:2 FTS	64.5		40 - 300	07/15/24 08:41	07/17/24 15:15	1
13C3 HFPO-DA	62.9		40 - 130	07/15/24 08:41	07/17/24 15:15	1
d7-N-MeFOSE-M	46.7		10 - 130	07/15/24 08:41	07/17/24 15:15	1
d9-N-EtFOSE-M	44.0		10 - 130	07/15/24 08:41	07/17/24 15:15	1
d5-NEtPFOSA	33.9		10 - 130	07/15/24 08:41	07/17/24 15:15	1
D3-NMeFOSA	34.4		10 - 130	07/15/24 08:41	07/17/24 15:15	1
13C2-PFDoDA	61.0		10 - 130	07/15/24 08:41	07/17/24 15:15	1

Lab Sample ID: LCS 240-619826/3-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	80.0	90.1		ng/L		113	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	43.4		ng/L		109	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	45.0		ng/L		112	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	45.2		ng/L		113	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	39.5		ng/L		99	70 - 150
Perfluorononanoic acid (PFNA)	40.0	43.4		ng/L		109	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	42.0		ng/L		105	70 - 140

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-619826/3-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	43.8		ng/L		109	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	43.7		ng/L		109	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	41.2		ng/L		103	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	41.0		ng/L		103	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.4	39.7		ng/L		112	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.5	43.3		ng/L		115	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.8		ng/L		104	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.1	25.2	*	ng/L		66	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	36.8		ng/L		99	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.4	27.1		ng/L		71	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.7	24.8		ng/L		64	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	74.7	87.4		ng/L		117	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	75.8	92.7		ng/L		122	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.6	86.9		ng/L		113	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	42.8		ng/L		107	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	50.2		ng/L		125	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	47.5		ng/L		119	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	47.5		ng/L		119	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	43.0		ng/L		108	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	232		ng/L		116	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	223		ng/L		112	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	33.4		ng/L		111	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	45.4		ng/L		120	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	43.5		ng/L		109	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	47.3		ng/L		118	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.3	43.1		ng/L		116	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.7	50.5		ng/L		134	55 - 160

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-619826/3-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.6	40.0		ng/L		112	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	83.3		ng/L		104	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	222		ng/L		111	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	196		ng/L		98	50 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	28.1		ng/L		73	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	43.4		ng/L		109	55 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	59.8		5 - 130
13C5 PFPeA	61.4		40 - 130
13C5 PFHxA	58.9		40 - 130
13C4 PFHpA	61.2		40 - 130
13C8 PFOA	61.1		40 - 130
13C9 PFNA	62.1		40 - 130
13C6 PFDA	60.7		40 - 130
13C7 PFUnA	61.3		30 - 130
13C2 PFTeDA	63.4		10 - 130
13C3 PFBS	66.2		40 - 135
13C3 PFHxS	61.6		40 - 130
13C8 PFOS	67.2		40 - 130
13C8 PFOSA	40.0		40 - 130
d3-NMeFOSAA	42.2		40 - 170
d5-NEtFOSAA	43.2		25 - 135
M2-4:2 FTS	60.2		40 - 200
M2-6:2 FTS	56.3		40 - 200
M2-8:2 FTS	61.4		40 - 300
13C3 HFPO-DA	56.4		40 - 130
d7-N-MeFOSE-M	30.6		10 - 130
d9-N-EtFOSE-M	26.9		10 - 130
d5-NEtPFOSA	32.3		10 - 130
D3-NMeFOSA	31.4		10 - 130
13C2-PFDoDA	63.0		10 - 130

Lab Sample ID: LLCS 240-619826/2-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	9.22		ng/L		115	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.76		ng/L		119	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	4.88		ng/L		122	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	4.98		ng/L		125	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	4.50		ng/L		112	70 - 150
Perfluorononanoic acid (PFNA)	4.00	4.71		ng/L		118	70 - 150

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-619826/2-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid (PFDA)	4.00	5.52		ng/L		138	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	4.89		ng/L		122	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	5.01		ng/L		125	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.78		ng/L		119	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.64		ng/L		116	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.54	4.13		ng/L		117	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.75	4.56		ng/L		122	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.64	4.38		ng/L		120	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.81	3.22		ng/L		85	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.71	4.22		ng/L		114	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.84	2.96		ng/L		77	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.87	3.13		ng/L		81	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.47	8.33		ng/L		112	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.58	9.75		ng/L		129	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	8.10		ng/L		106	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	5.29		ng/L		132	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	5.11		ng/L		128	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	4.70		ng/L		118	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	4.86		ng/L		122	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.06		ng/L		101	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	22.6		ng/L		113	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	22.7		ng/L		113	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.14		ng/L		105	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.77	4.86		ng/L		129	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	5.03		ng/L		126	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	4.98		ng/L		124	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	3.73	4.32		ng/L		116	70 - 155

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-619826/2-A

Matrix: Water

Analysis Batch: 620220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.77	4.97		ng/L		132	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.56	4.00		ng/L		112	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	9.72		ng/L		121	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	24.0		ng/L		120	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	19.6		ng/L		98	50 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	3.04		ng/L		79	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.58		ng/L		115	55 - 140

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	65.8		5 - 130
13C5 PFPeA	63.2		40 - 130
13C5 PFHxA	64.5		40 - 130
13C4 PFHpA	65.6		40 - 130
13C8 PFOA	63.0		40 - 130
13C9 PFNA	68.0		40 - 130
13C6 PFDA	64.6		40 - 130
13C7 PFUnA	67.6		30 - 130
13C2 PFTeDA	69.2		10 - 130
13C3 PFBS	67.1		40 - 135
13C3 PFHxS	63.2		40 - 130
13C8 PFOS	68.1		40 - 130
13C8 PFOSA	43.1		40 - 130
d3-NMeFOSAA	46.7		40 - 170
d5-NEtFOSAA	48.3		25 - 135
M2-4:2 FTS	70.8		40 - 200
M2-6:2 FTS	64.9		40 - 200
M2-8:2 FTS	67.5		40 - 300
13C3 HFPO-DA	61.3		40 - 130
d7-N-MeFOSE-M	35.6		10 - 130
d9-N-EtFOSE-M	30.3		10 - 130
d5-NEtPFOSA	34.8		10 - 130
D3-NMeFOSA	36.0		10 - 130
13C2-PFDoDA	67.4		10 - 130

Lab Sample ID: 480-221475-3 MS

Matrix: Water

Analysis Batch: 620220

Client Sample ID: MW-2-15

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	76		70.8	156		ng/L		112	70 - 140
Perfluoropentanoic acid (PFPeA)	250		35.4	294	4	ng/L		127	65 - 135
Perfluorohexanoic acid (PFHxA)	190		35.4	230	4	ng/L		111	70 - 145
Perfluoroheptanoic acid (PFHpA)	150		35.4	188	4	ng/L		96	70 - 150

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-221475-3 MS

Matrix: Water

Analysis Batch: 620220

Client Sample ID: MW-2-15

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorononanoic acid (PFNA)	84		35.4	122		ng/L		109	70 - 150
Perfluorodecanoic acid (PFDA)	230		35.4	275	4	ng/L		131	70 - 140
Perfluoroundecanoic acid (PFUnA)	67		35.4	102		ng/L		99	70 - 145
Perfluorododecanoic acid (PFDoA)	33		35.4	71.7		ng/L		109	70 - 140
Perfluorotridecanoic acid (PFTrDA)	5.4		35.4	40.1		ng/L		98	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	1.1	J	35.4	41.3		ng/L		114	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.7		31.3	34.4		ng/L		104	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	ND		33.2	40.6		ng/L		122	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	32.2	31.5		ng/L		93	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	ND	*-	33.7	23.8		ng/L		71	70 - 150
Perfluorooctanesulfonic acid (PFOS)	2.8		32.8	34.7		ng/L		97	55 - 150
Perfluorononanesulfonic acid (PFNS)	ND		34.0	22.8		ng/L		67	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	ND		34.3	19.1		ng/L		56	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		66.1	75.0		ng/L		113	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		67.1	73.6		ng/L		110	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		67.8	76.3		ng/L		113	60 - 150
Perfluorooctanesulfonamide (PFOSA)	ND		35.4	38.6		ng/L		109	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		35.4	41.2		ng/L		116	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		35.4	39.0		ng/L		110	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.4	38.8		ng/L		110	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.4	40.0		ng/L		113	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		177	199		ng/L		112	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		177	185		ng/L		104	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		26.5	28.0		ng/L		105	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		33.3	35.9		ng/L		108	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		35.4	38.2		ng/L		108	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		35.4	41.6		ng/L		117	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		33.0	31.9		ng/L		97	70 - 155

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-221475-3 MS

Matrix: Water

Analysis Batch: 620220

Client Sample ID: MW-2-15

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		33.3	32.4		ng/L		97	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		31.5	35.8		ng/L		114	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	70.8	70.9		ng/L		96	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	17		177	191		ng/L		98	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	17		177	172		ng/L		88	50 - 145
Perfluorodecanesulfonic acid (PFDS)	ND		34.1	23.5		ng/L		69	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		35.4	39.9		ng/L		113	55 - 140

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C4 PFBA	82.1		5 - 130
13C5 PFPeA	85.2		40 - 130
13C5 PFHxA	81.7		40 - 130
13C4 PFHpA	84.1		40 - 130
13C8 PFOA	83.5		40 - 130
13C9 PFNA	81.1		40 - 130
13C6 PFDA	81.8		40 - 130
13C7 PFUnA	77.4		30 - 130
13C2 PFTeDA	66.6		10 - 130
13C3 PFBS	96.9		40 - 135
13C3 PFHxS	85.2		40 - 130
13C8 PFOS	88.8		40 - 130
13C8 PFOSA	52.3		40 - 130
d3-NMeFOSAA	52.9		40 - 170
d5-NEtFOSAA	50.0		25 - 135
M2-4:2 FTS	110		40 - 200
M2-6:2 FTS	83.2		40 - 200
M2-8:2 FTS	73.4		40 - 300
13C3 HFPO-DA	84.5		40 - 130
d7-N-MeFOSE-M	33.8		10 - 130
d9-N-EtFOSE-M	30.7		10 - 130
d5-NEtPFOSA	42.7		10 - 130
D3-NMeFOSA	43.1		10 - 130
13C2-PFDoDA	81.2		10 - 130

Lab Sample ID: 480-221475-3 MSD

Matrix: Water

Analysis Batch: 620220

Client Sample ID: MW-2-5

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Perfluorobutanoic acid (PFBA)	76		67.8	160		ng/L		124	70 - 140	3	30
Perfluoropentanoic acid (PFPeA)	250		33.9	298	4	ng/L		142	65 - 135	1	30
Perfluorohexanoic acid (PFHxA)	190		33.9	222	4	ng/L		93	70 - 145	4	30
Perfluoroheptanoic acid (PFHpA)	150		33.9	199	4	ng/L		132	70 - 150	5	30

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-221475-3 MSD

Matrix: Water

Analysis Batch: 620220

Client Sample ID: MW-2-5

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorononanoic acid (PFNA)	84		33.9	116		ng/L		94	70 - 150	6	30
Perfluorodecanoic acid (PFDA)	230		33.9	268	4	ng/L		114	70 - 140	3	30
Perfluoroundecanoic acid (PFUnA)	67		33.9	99.2		ng/L		94	70 - 145	3	30
Perfluorododecanoic acid (PFDoA)	33		33.9	70.1		ng/L		109	70 - 140	2	30
Perfluorotridecanoic acid (PFTrDA)	5.4		33.9	41.1		ng/L		105	65 - 140	3	30
Perfluorotetradecanoic acid (PFTeDA)	1.1	J	33.9	38.4		ng/L		110	60 - 140	7	30
Perfluorobutanesulfonic acid (PFBS)	1.7		30.0	35.9		ng/L		114	60 - 145	4	30
Perfluoropentanesulfonic acid (PFPeS)	ND		31.8	38.1		ng/L		120	65 - 140	6	30
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	30.9	33.9		ng/L		105	65 - 145	7	30
Perfluoroheptanesulfonic acid (PFHpS)	ND	*-	32.3	25.4		ng/L		79	70 - 150	6	30
Perfluorooctanesulfonic acid (PFOS)	2.8		31.5	35.3		ng/L		103	55 - 150	2	30
Perfluorononanesulfonic acid (PFNS)	ND		32.6	23.4		ng/L		72	65 - 145	3	30
Perfluorododecanesulfonic acid (PFDoS)	ND		32.8	18.0		ng/L		55	50 - 145	6	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		63.4	75.6		ng/L		119	70 - 145	1	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		64.3	74.3		ng/L		116	65 - 155	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		65.0	83.3		ng/L		128	60 - 150	9	30
Perfluorooctanesulfonamide (PFOSA)	ND		33.9	39.3		ng/L		116	70 - 145	2	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		33.9	39.2		ng/L		115	60 - 150	5	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		33.9	39.2		ng/L		115	65 - 145	0	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		33.9	36.8		ng/L		108	50 - 140	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		33.9	37.0		ng/L		109	70 - 145	8	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		170	194		ng/L		115	70 - 145	2	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		170	193		ng/L		114	70 - 135	4	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		25.4	27.6		ng/L		109	70 - 140	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		32.0	35.3		ng/L		110	65 - 145	2	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		33.9	40.2		ng/L		118	60 - 150	5	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		33.9	37.4		ng/L		110	50 - 150	11	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		31.6	30.6		ng/L		97	70 - 155	4	30

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-221475-3 MSD

Matrix: Water

Analysis Batch: 620220

Client Sample ID: MW-2-5

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		32.0	29.0		ng/L		91	55 - 160	11	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		30.2	34.6		ng/L		115	70 - 140	3	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	67.8	72.3		ng/L		102	65 - 130	2	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	17		170	190		ng/L		102	70 - 135	1	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	17		170	165		ng/L		87	50 - 145	4	30
Perfluorodecanesulfonic acid (PFDS)	ND		32.7	22.5		ng/L		69	60 - 145	4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		33.9	39.7		ng/L		117	55 - 140	1	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	MSD Limits
13C4 PFBA	70.7		5 - 130
13C5 PFPeA	73.0		40 - 130
13C5 PFHxA	73.6		40 - 130
13C4 PFHpA	71.1		40 - 130
13C8 PFOA	69.9		40 - 130
13C9 PFNA	75.5		40 - 130
13C6 PFDA	69.3		40 - 130
13C7 PFUnA	65.5		30 - 130
13C2 PFTeDA	55.3		10 - 130
13C3 PFBS	83.9		40 - 135
13C3 PFHxS	73.8		40 - 130
13C8 PFOS	75.6		40 - 130
13C8 PFOSA	45.6		40 - 130
d3-NMeFOSAA	45.7		40 - 170
d5-NEtFOSAA	42.1		25 - 135
M2-4:2 FTS	99.8		40 - 200
M2-6:2 FTS	71.2		40 - 200
M2-8:2 FTS	60.4		40 - 300
13C3 HFPO-DA	73.4		40 - 130
d7-N-MeFOSE-M	27.0		10 - 130
d9-N-EtFOSE-M	23.6		10 - 130
d5-NEtPFOSA	35.4		10 - 130
D3-NMeFOSA	38.7		10 - 130
13C2-PFDoDA	67.1		10 - 130

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL

Lab Sample ID: 480-221475-3 MS

Matrix: Water

Analysis Batch: 620739

Client Sample ID: MW-2-15

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA) - DL	410		35.4	417	4	ng/L		13	70 - 150

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL (Continued)

<i>Isotope Dilution</i>	<i>MS MS</i> <i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
13C4 PFBA - DL	111		5 - 130
13C5 PFPeA - DL	105		40 - 130
13C5 PFHxA - DL	96.8		40 - 130
13C4 PFHpA - DL	98.4		40 - 130
13C8 PFOA - DL	104		40 - 130
13C9 PFNA - DL	104		40 - 130
13C6 PFDA - DL	96.5		40 - 130
13C7 PFUnA - DL	0.131	*5-	30 - 130
13C2 PFTeDA - DL	0.387	*5-	10 - 130
13C3 PFBS - DL	112		40 - 135
13C3 PFHxS - DL	110		40 - 130
13C8 PFOS - DL	103		40 - 130
13C8 PFOSA - DL	63.1		40 - 130
d3-NMeFOSAA - DL	68.7		40 - 170
d5-NEtFOSAA - DL	73.9		25 - 135
M2-4:2 FTS - DL	113		40 - 200
M2-6:2 FTS - DL	110		40 - 200
M2-8:2 FTS - DL	106		40 - 300
13C3 HFPO-DA - DL	91.1		40 - 130
d7-N-MeFOSE-M - DL	46.2		10 - 130
d9-N-EtFOSE-M - DL	37.9		10 - 130
d5-NEtPFOSA - DL	55.0		10 - 130
D3-NMeFOSA - DL	58.7		10 - 130
13C2-PFDoDA - DL	93.4		10 - 130

Lab Sample ID: 480-221475-3 MSD

Matrix: Water

Analysis Batch: 620739

Client Sample ID: MW-2-5

Prep Type: Total/NA

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorooctanoic acid (PFOA) - DL	410		33.9	422	4	ng/L		30	70 - 150	1	30
Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits								
13C4 PFBA - DL	111		5 - 130								
13C5 PFPeA - DL	103		40 - 130								
13C5 PFHxA - DL	101		40 - 130								
13C4 PFHpA - DL	93.5		40 - 130								
13C8 PFOA - DL	91.1		40 - 130								
13C9 PFNA - DL	101		40 - 130								
13C6 PFDA - DL	83.7		40 - 130								
13C7 PFUnA - DL	81.6		30 - 130								
13C2 PFTeDA - DL	72.5		10 - 130								
13C3 PFBS - DL	104		40 - 135								
13C3 PFHxS - DL	97.9		40 - 130								
13C8 PFOS - DL	92.5		40 - 130								
13C8 PFOSA - DL	68.4		40 - 130								
d3-NMeFOSAA - DL	61.0		40 - 170								
d5-NEtFOSAA - DL	61.1		25 - 135								
M2-4:2 FTS - DL	108		40 - 200								
M2-6:2 FTS - DL	94.8		40 - 200								
M2-8:2 FTS - DL	97.9		40 - 300								

Eurofins Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS - DL (Continued)

Lab Sample ID: 480-221475-3 MSD

Matrix: Water

Analysis Batch: 620739

Client Sample ID: MW-2-5

Prep Type: Total/NA

Prep Batch: 619826

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C3 HFPO-DA - DL	89.1		40 - 130
d7-N-MeFOSE-M - DL	35.9		10 - 130
d9-N-EtFOSE-M - DL	31.1		10 - 130
d5-NEtPFOSA - DL	50.1		10 - 130
D3-NMeFOSA - DL	52.9		10 - 130
13C2-PFDoDA - DL	0.167	*5-	10 - 130

Method: PPCP NEG - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Lab Sample ID: MB 810-106437/10

Matrix: Water

Analysis Batch: 106437

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acesulfame K	ND		0.020	0.0020	ug/L			07/18/24 22:15	1
Sucralose	ND		0.10	0.014	ug/L			07/18/24 22:15	1

Lab Sample ID: 480-221475-3 MS

Matrix: Water

Analysis Batch: 106437

Client Sample ID: MW-2-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acesulfame K	0.031		0.800	0.750		ug/L		90	50 - 150
Sucralose	0.042	J	4.00	4.11		ug/L		102	50 - 150

Lab Sample ID: 480-221475-3 MSD

Matrix: Water

Analysis Batch: 106437

Client Sample ID: MW-2-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acesulfame K	0.031		0.800	0.775		ug/L		93	50 - 150	3	30
Sucralose	0.042	J	4.00	4.44		ug/L		110	50 - 150	8	30

QC Association Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

LCMS

Analysis Batch: 106437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221475-1	DUP	Total/NA	Water	PPCP NEG	
480-221475-2	MW-1-27	Total/NA	Water	PPCP NEG	
480-221475-3	MW-2-15	Total/NA	Water	PPCP NEG	
MB 810-106437/10	Method Blank	Total/NA	Water	PPCP NEG	
480-221475-3 MS	MW-2-15	Total/NA	Water	PPCP NEG	
480-221475-3 MSD	MW-2-5	Total/NA	Water	PPCP NEG	

Prep Batch: 619826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221475-1	DUP	Total/NA	Water	1633	
480-221475-1 - DL	DUP	Total/NA	Water	1633	
480-221475-2	MW-1-27	Total/NA	Water	1633	
480-221475-3	MW-2-15	Total/NA	Water	1633	
480-221475-3 - DL	MW-2-15	Total/NA	Water	1633	
MB 240-619826/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-619826/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-619826/2-A	Lab Control Sample	Total/NA	Water	1633	
480-221475-3 MS	MW-2-15	Total/NA	Water	1633	
480-221475-3 MS - DL	MW-2-15	Total/NA	Water	1633	
480-221475-3 MSD - DL	MW-2-5	Total/NA	Water	1633	
480-221475-3 MSD	MW-2-5	Total/NA	Water	1633	

Analysis Batch: 620220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221475-1	DUP	Total/NA	Water	1633	619826
480-221475-2	MW-1-27	Total/NA	Water	1633	619826
480-221475-3	MW-2-15	Total/NA	Water	1633	619826
MB 240-619826/1-A	Method Blank	Total/NA	Water	1633	619826
LCS 240-619826/3-A	Lab Control Sample	Total/NA	Water	1633	619826
LLCS 240-619826/2-A	Lab Control Sample	Total/NA	Water	1633	619826
480-221475-3 MS	MW-2-15	Total/NA	Water	1633	619826
480-221475-3 MSD	MW-2-5	Total/NA	Water	1633	619826

Analysis Batch: 620739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-221475-1 - DL	DUP	Total/NA	Water	1633	619826
480-221475-3 - DL	MW-2-15	Total/NA	Water	1633	619826
480-221475-3 MS - DL	MW-2-15	Total/NA	Water	1633	619826
480-221475-3 MSD - DL	MW-2-5	Total/NA	Water	1633	619826

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Client Sample ID: DUP

Date Collected: 07/08/24 00:00

Date Received: 07/10/24 10:30

Lab Sample ID: 480-221475-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			619826	CLB	EET CLE	07/15/24 08:41
Total/NA	Analysis	1633		1	620220	RMN	EET CLE	07/17/24 15:56
Total/NA	Prep	1633	DL		619826	CLB	EET CLE	07/15/24 08:41
Total/NA	Analysis	1633	DL	10	620739	RMN	EET CLE	07/22/24 12:55
Total/NA	Analysis	PPCP NEG		1	106437	BS	EA SB	07/19/24 10:51

Client Sample ID: MW-1-27

Date Collected: 07/08/24 11:08

Date Received: 07/10/24 10:30

Lab Sample ID: 480-221475-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			619826	CLB	EET CLE	07/15/24 08:41
Total/NA	Analysis	1633		1	620220	RMN	EET CLE	07/17/24 16:09
Total/NA	Analysis	PPCP NEG		1	106437	BS	EA SB	07/19/24 11:19

Client Sample ID: MW-2-15

Date Collected: 07/08/24 13:14

Date Received: 07/10/24 10:30

Lab Sample ID: 480-221475-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			619826	CLB	EET CLE	07/15/24 08:41
Total/NA	Analysis	1633		1	620220	RMN	EET CLE	07/17/24 16:23
Total/NA	Prep	1633	DL		619826	CLB	EET CLE	07/15/24 08:41
Total/NA	Analysis	1633	DL	10	620739	RMN	EET CLE	07/22/24 13:08
Total/NA	Analysis	PPCP NEG		1	106437	BS	EA SB	07/19/24 11:47

Laboratory References:

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

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Laboratory: Eurofins Cleveland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10975	04-02-25

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
1633	1633	Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
1633	1633	Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
1633	1633	Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
1633	1633	Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
1633	1633	Water	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
1633	1633	Water	3-Perfluoropentylpropanoic acid (5:3 FTCA)
1633	1633	Water	3-Perfluoropropylpropanoic acid (3:3 FTCA)
1633	1633	Water	4,8-Dioxo-3H-perfluorononanoic acid (ADONA)
1633	1633	Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
1633	1633	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
1633	1633	Water	N-ethylperfluorooctane sulfonamide (NEtFOSA)
1633	1633	Water	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
1633	1633	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
1633	1633	Water	N-methylperfluorooctane sulfonamide (NMeFOSA)
1633	1633	Water	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
1633	1633	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
1633	1633	Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
1633	1633	Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)
1633	1633	Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
1633	1633	Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
1633	1633	Water	Perfluorobutanesulfonic acid (PFBS)
1633	1633	Water	Perfluorobutanoic acid (PFBA)
1633	1633	Water	Perfluorodecanesulfonic acid (PFDS)
1633	1633	Water	Perfluorodecanoic acid (PFDA)
1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
1633	1633	Water	Perfluorododecanoic acid (PFDaA)
1633	1633	Water	Perfluoroheptanesulfonic acid (PFHpS)
1633	1633	Water	Perfluoroheptanoic acid (PFHpA)
1633	1633	Water	Perfluorohexanesulfonic acid (PFHxS)
1633	1633	Water	Perfluorohexanoic acid (PFHxA)

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Laboratory: Eurofins Cleveland (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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
1633	1633	Water	Perfluorononanesulfonic acid (PFNS)
1633	1633	Water	Perfluorononanoic acid (PFNA)
1633	1633	Water	Perfluorooctanesulfonamide (PFOSA)
1633	1633	Water	Perfluorooctanesulfonic acid (PFOS)
1633	1633	Water	Perfluorooctanoic acid (PFOA)
1633	1633	Water	Perfluoropentanesulfonic acid (PFPeS)
1633	1633	Water	Perfluoropentanoic acid (PFPeA)
1633	1633	Water	Perfluorotetradecanoic acid (PFTeDA)
1633	1633	Water	Perfluorotridecanoic acid (PFTrDA)
1633	1633	Water	Perfluoroundecanoic acid (PFUnA)

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11398	04-01-25
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
PPCP NEG		Water	Acesulfame K
PPCP NEG		Water	Sucralose

Method Summary

Client: New York State D.E.C.

Job ID: 480-221475-1

Project/Site: Pound Ridge Spill #2400692 PIN H7411

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
PPCP NEG	Pharmaceuticals and Personal Care Products (LC/MS/MS)	Lab SOP	EA SB
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE

Protocol References:

EPA = US Environmental Protection Agency

Lab SOP = Laboratory Standard Operating Procedure

Laboratory References:

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

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: New York State D.E.C.

Job ID: 480-221475-1

Project/Site: Pound Ridge Spill #2400692 PIN H7411

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-221475-1	DUP	Water	07/08/24 00:00	07/10/24 10:30
480-221475-2	MW-1-27	Water	07/08/24 11:08	07/10/24 10:30
480-221475-3	MW-2-15	Water	07/08/24 13:14	07/10/24 10:30

Client Information			Lab PM		Carrier Tracking No(s)		COC No	
Client Contact			Fischer, Brian J		480-197792-40920.1		Page	
Michaela Cochran			E Mail		Brian.Fischer@etel.finsus.com		Page 1 of 1	
Company			PWSID		Job #		Job #	
New York State D.E.C. <td colspan="2">Due Date Requested: 8/7/24<td colspan="2">Analysis Requested<td colspan="2">Preservation Codes:</td></td></td>			Due Date Requested: 8/7/24 <td colspan="2">Analysis Requested<td colspan="2">Preservation Codes:</td></td>		Analysis Requested <td colspan="2">Preservation Codes:</td>		Preservation Codes:	
Address			TAT Requested (days): standard (30)		1633 Final - 1633 Standard List 40		N - None	
City			Compliance Project: Δ Yes Δ No		LCMS_PPCP_NEG - Sucralose & Ace-K		H - Ascorbic Acid	
State, Zip			Callout ID: 152002		Field Filtered Sample (Yes or No)		Other:	
Phone			WO #		Perform MS/MSD (Yes or No)		Total Number of Containers	
Email			Project #		Matrix (Water, Solid, Oil)		Special Instructions/Note:	
Michaela.cochran@dec.ny.gov			48027807		Preservation Code:			
Project Name			SSOW#		Sample Date			
Pound Ridge			Sample Time		Sample Type (C=Comp, G=grab)			
Dup			7/8/24		G		Water	
MW-1/27'			11:08		↓		Water	
MW-2/15'			1:14 pm		↓		Water	
MW-2/15' MS			1:14		↓		Water	
MW-2/15' MSD			1:14		↓		Water	
Sample Identification			Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Matrix (Water, Solid, Oil)			Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
1633 Final - 1633 Standard List 40			LCMS_PPCP_NEG - Sucralose & Ace-K		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Total Number of Containers			Special Instructions/Note:		Job #		Job #	
480-221475 Chain of Custody			Barcode		Date/Time		Date/Time	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			Return To Client		Disposal By Lab		Archive For	
Special Instructions/QC Requirements			Date		Date		Date	
Empty Kit Relinquished by:			Date		Date		Date	
Relinquished by: Michaela Cochran			Date/Time: 7/8/24 1634		Date/Time: 7/8/24 1634		Date/Time: 7/8/24 1634	
Relinquished by: Dan Krollinger			Date/Time: 7/9/24 1500		Date/Time: 7/9/24 1500		Date/Time: 7/9/24 1500	
Relinquished by:			Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No			Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Cooler Temperature(s) °C and Other Remarks:	

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab) Client Contact: _____ Shipping/Receiving: _____ Company: Eurofins Environment Testing North Cent Address: 180 S. Van Buren Avenue, City: Barberton State, Zip: OH 44203 Phone: 330-497-9396(Tel) 330-497-0772(Fax) Email: _____ Project Name: Pound Ridge Spill #2400692 PIN H7411 Site: _____		Lab PM: Fischer Brian J E-Mail: Brian.Fischer@et.eurofinsus.com Accreditations Required (See note): NELAP New York Due Date Requested: 8/8/2024 TAT Requested (days): _____ PO #: _____ W/O #: _____ Project #: 48027807 SSOW#: _____		Carrier Tracking No(s): _____ State of Origin: New York Job #: 480-221475-1 Preservation Codes: _____ Other: 85-35 Special Instructions/Note: _____	
		Analysis Requested			
		1633 Final/1633 SPE 1633 Standard List 40			
		Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		1633 Final/1633 SPE 1633 Standard List 40			
		Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		1633 Final/1633 SPE 1633 Standard List 40			
		Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		1633 Final/1633 SPE 1633 Standard List 40			
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		1633 Final/1633 SPE 1633 Standard List 40			
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		Perform MS/MSD (Yes or No)			
		1633 Final/1633 SPE 1633 Standard List 40			
		Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		1633 Final/1633 SPE 1633 Standard List 40			
		Field Filtered Sample (Yes or No)			
		Perform MS/MSD (Yes or No)			
		1633 Final/1633			

Eurofins - Cleveland Sample Receipt Form/Narrative				Login # : _____	
Barberton Facility					
Client <u>EDR Buford</u>		Site Name _____		Cooler unpacked by: _____	
Cooler Received on <u>7-13-24</u>		Opened on <u>7-13-24</u>		MALISSA LOAR	
FedEx 1 st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____					
Receipt After-hours Drop-off Date/Time _____ Storage Location _____					
Eurofins Cooler # <u>7C</u> Foam Box _____ Client Cooler _____ Box _____ Other _____					
Packing material used <u>Bubble Wrap</u> Foam Plastic Bag None Other _____					
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None					
1 Cooler temperature upon receipt ☒ See Multiple Cooler Form					
IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C					
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ ☒ Yes ☐ No					
-Were the seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No NA					
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☒ Yes ☐ No NA					
-Were tamper/custody seals intact and uncompromised? ☒ Yes ☐ No NA					
3 Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No					
4 Did custody papers accompany the sample(s)? ☒ Yes ☐ No					
5 Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No					
6 Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☒ No					
7 Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No					
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? ☒ Yes ☐ No					
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N) ☒ Yes ☒ No					
10 Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No					
11 Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No					
12. Are these work share samples and all listed on the COC? ☒ Yes ☐ No					
If yes, Questions 13-17 have been checked at the originating laboratory					
13 Were all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☐ No NA pH Strip Lot# HC442471					
14 Were VOAs on the COC? ☒ Yes ☐ No					
15 Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No NA					
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ ☒ Yes ☐ No					
17 Was a LL Hg or Me Hg trip blank present? ☒ Yes ☐ No					
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

Tests that are not checked for pH by Receiving:

VOAs

Oil and Grease

TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Samples processed by: _____	
19 SAMPLE CONDITION			
Sample(s) _____ were received after the recommended holding time had expired.			
Sample(s) _____ were received in a broken container			
Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)			
20. SAMPLE PRESERVATION			
Sample(s) _____ were further preserved in the laboratory			
Time preserved. _____ Preservative(s) added/Lot number(s) _____			
VOA Sample Preservation - Date/Time VOAs Frozen _____			

SHIPPER CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE
BUFFALO, NY 142282223
UNITED STATES US

ACTING 11 53.25 LB
CAD 0759273/CAFE3808
DIMS 26x15x14 IN
BILL SENDER

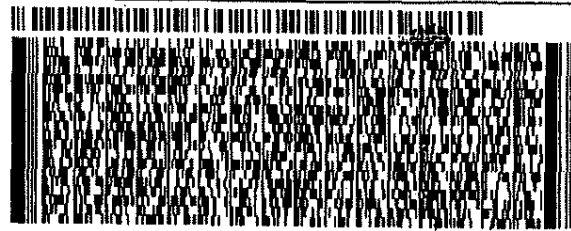
Part # 159469-434 M/TW/EXP 03/25
585CN/FE04/CSC4

TO **SAMPLE RECEIPT**
EUROFINS CLEVELAND
180 S VAN BUREN AVE

BARBERTON OH 442033543

(330) 497-9398

REF: BARBERTON



FedEx
Express



J2410231122010V

2 of 2

MPS# 7117 9321 7081

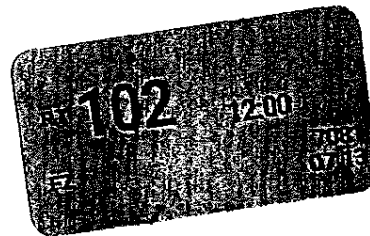
Mstr# 7117 9321 7070

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO CAKA

44203
OH-US CLE



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-221475-1

Login Number: 221475

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	NYSDEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-221475-1

Login Number: 221475

List Number: 3

Creator: Trowbridge, Peyton

List Source: Eurofins Eaton Analytical South Bend

List Creation: 07/13/24 10:57 AM

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	

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
480-221475-1	DUP	72.8	76.6	75.5	76.2	69.5	78.9	76.1	79.0
480-221475-1 - DL	DUP	134 *5+	129	120	121	117	125	117	0.179 *5-
480-221475-2	MW-1-27	72.9	70.9	73.2	71.5	72.8	77.0	68.3	69.1
480-221475-3	MW-2-15	67.7	71.1	69.2	70.2	70.6	74.9	75.5	65.2
480-221475-3 - DL	MW-2-15	107	94.8	97.9	93.5	99.8	101	95.8	0.438 *5-
480-221475-3 MS	MW-2-15	82.1	85.2	81.7	84.1	83.5	81.1	81.8	77.4
480-221475-3 MS - DL	MW-2-15	111	105	96.8	98.4	104	104	96.5	0.131 *5-
480-221475-3 MSD	MW-2-5	70.7	73.0	73.6	71.1	69.9	75.5	69.3	65.5
480-221475-3 MSD - DL	MW-2-5	111	103	101	93.5	91.1	101	83.7	81.6
LCS 240-619826/3-A	Lab Control Sample	59.8	61.4	58.9	61.2	61.1	62.1	60.7	61.3
LLCS 240-619826/2-A	Lab Control Sample	65.8	63.2	64.5	65.6	63.0	68.0	64.6	67.6
MB 240-619826/1-A	Method Blank	62.7	66.1	64.9	65.3	60.7	59.7	59.1	59.9

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)	M242FTS (40-200)
480-221475-1	DUP	57.1	89.1	77.0	82.9	49.5	52.6	51.5	101
480-221475-1 - DL	DUP	80.9	133	131 *5+	120	84.1	87.0	87.9	133
480-221475-2	MW-1-27	55.9	78.8	78.0	73.5	46.1	44.4	43.7	70.0
480-221475-3	MW-2-15	60.0	81.0	71.2	78.7	44.2	46.2	46.1	92.3
480-221475-3 - DL	MW-2-15	75.7	110	102	101	70.4	69.2	74.4	96.7
480-221475-3 MS	MW-2-15	66.6	96.9	85.2	88.8	52.3	52.9	50.0	110
480-221475-3 MS - DL	MW-2-15	0.387 *5-	112	110	103	63.1	68.7	73.9	113
480-221475-3 MSD	MW-2-5	55.3	83.9	73.8	75.6	45.6	45.7	42.1	99.8
480-221475-3 MSD - DL	MW-2-5	72.5	104	97.9	92.5	68.4	61.0	61.1	108
LCS 240-619826/3-A	Lab Control Sample	63.4	66.2	61.6	67.2	40.0	42.2	43.2	60.2
LLCS 240-619826/2-A	Lab Control Sample	69.2	67.1	63.2	68.1	43.1	46.7	48.3	70.8
MB 240-619826/1-A	Method Blank	55.1	64.7	62.8	66.4	42.5	46.7	46.8	65.5

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDODA (10-130)
480-221475-1	DUP	74.6	68.9	76.6	19.9	15.6	40.3	43.3	74.5
480-221475-1 - DL	DUP	127	130	123	32.1	22.4	62.8	66.8	0.410 *5-
480-221475-2	MW-1-27	72.9	69.7	66.9	27.8	26.0	37.5	37.9	67.6
480-221475-3	MW-2-15	68.3	63.8	68.7	40.8	33.4	38.8	39.9	68.6
480-221475-3 - DL	MW-2-15	105	105	93.4	54.2	45.1	58.3	60.0	87.9
480-221475-3 MS	MW-2-15	83.2	73.4	84.5	33.8	30.7	42.7	43.1	81.2
480-221475-3 MS - DL	MW-2-15	110	106	91.1	46.2	37.9	55.0	58.7	93.4
480-221475-3 MSD	MW-2-5	71.2	60.4	73.4	27.0	23.6	35.4	38.7	67.1
480-221475-3 MSD - DL	MW-2-5	94.8	97.9	89.1	35.9	31.1	50.1	52.9	0.167 *5-
LCS 240-619826/3-A	Lab Control Sample	56.3	61.4	56.4	30.6	26.9	32.3	31.4	63.0
LLCS 240-619826/2-A	Lab Control Sample	64.9	67.5	61.3	35.6	30.3	34.8	36.0	67.4
MB 240-619826/1-A	Method Blank	62.3	64.5	62.9	46.7	44.0	33.9	34.4	61.0

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA

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Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-221475-1

Project/Site: Pound Ridge Spill #2400692 PIN H7411

C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = D3-NMeFOSA
PFDoDA = 13C2-PFDoDA

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ANALYTICAL REPORT

PREPARED FOR

Attn: Michaela Cochran
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Generated 12/19/2024 11:05:24 AM Revision 1

JOB DESCRIPTION

Pound Ridge Spill #2400692 PIN H7411

JOB NUMBER

480-223087-1

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Job Notes

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Compliance Statement

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Authorization



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Revision 1



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
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.
☼	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: New York State D.E.C.
Project: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Job ID: 480-223087-1

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Job Narrative 480-223087-1

Revision

The report being provided is a revision of the original report sent on 9/13/2024. The report (revision 1) is being revised to correct the sample collection dates. A revised COC provided by the client is included in the report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/5/2024 9:30 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 2.7°C.

PFAS

Method 1633_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the Continuing Calibration Blank (CCB) for 13C2 PFTeDA. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries, the CCB is non detect for associated target analytes, therefore, the associated samples are reported. The following sample is affected: MW-2 (480-223087-3).

Method 1633_Final: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound 13C2 PFTeDA. Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following samples are impacted: DUP (480-223087-1) and MW-1 (480-223087-2).

Method 1633_Final: The continuing calibration verification (CCV) recovered outside of control limits for IDA compound d5-NEtFOSAA. Section 14.3.3 of the finalized EPA 1633 states that the recovery of target analytes for the CCV(s) must be within 70 - 130%, unless the analyte is not of concern for a given project. Since target analytes associated with this IDA are within spec, data is reported. The following samples are impacted: DUP (480-223087-1), MW-1 (480-223087-2) and MW-2 (480-223087-3).

Method 1633_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the Method Blank (MB) for d5-NEtFOSAA. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries, the MB is non detect for associated target analytes, therefore, the associated samples are reported. The following samples are affected: DUP (480-223087-1), MW-1 (480-223087-2) and MW-2 (480-223087-3).

Method 1633_Final: The low level laboratory control sample (LLCS) for preparation batch 240-626249 and analytical batch 240-626324 recovered outside control limits for the following analyte: d5-NEtFOSAA. However, the native compounds were in spec, therefore the data has been reported.

Method 1633_Final: The laboratory control sample (LCS) for preparation batch 240-626249 and analytical batch 240-626324 recovered outside control limits for the following analytes: 13C5 PFPeA, 13C3 PFHxS and d5-NEtFOSAA. However, the native compounds were in spec, therefore the data has been reported.

Method 1633_Final: Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following samples: DUP (480-223087-1), MW-1 (480-223087-2) and MW-2 (480-223087-3). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 1633_Final: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 240-626249 and analytical batch 240-626324 were outside control limits for some analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recoveries were within acceptance limits.

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Case Narrative

Client: New York State D.E.C.
Project: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Job ID: 480-223087-1 (Continued)

Eurofins Buffalo

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

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Detection Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: DUP

Lab Sample ID: 480-223087-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	100		3.0	0.75	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	330		1.5	0.45	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	260		1.5	0.38	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	250		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	590		1.5	0.41	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	100		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	270		1.5	0.38	ng/L	1		1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	65		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorododecanoic acid (PFDoA)	44		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorotridecanoic acid (PFTrDA)	5.8		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorotetradecanoic acid (PFTeDA)	0.78	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		1.5	0.38	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.55	J I	1.5	0.38	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.8	J	3.0	0.75	ng/L	1		1633	Total/NA
3-Perfluoropentylpropanoic acid (5:3 FTCA)	13		7.5	1.9	ng/L	1		1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		7.5	1.9	ng/L	1		1633	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 480-223087-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.5	J	6.8	1.7	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	7.0		3.4	1.0	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	7.3		3.4	0.85	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.5		3.4	0.87	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	18		3.4	0.92	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	1.3	J	3.4	0.85	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.4		3.4	0.85	ng/L	1		1633	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	15		3.4	0.85	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	38		3.4	0.85	ng/L	1		1633	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 480-223087-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	110		3.1	0.78	ng/L	1		1633	Total/NA
Perfluoropentanoic acid (PFPeA)	320		1.6	0.47	ng/L	1		1633	Total/NA
Perfluorohexanoic acid (PFHxA)	240		1.6	0.39	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid (PFHpA)	260		1.6	0.40	ng/L	1		1633	Total/NA
Perfluorooctanoic acid (PFOA)	610		1.6	0.42	ng/L	1		1633	Total/NA
Perfluorononanoic acid (PFNA)	110		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorodecanoic acid (PFDA)	290		1.6	0.39	ng/L	1		1633	Total/NA
Perfluoroundecanoic acid (PFUnA)	70	F1	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorododecanoic acid (PFDoA)	47		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorotridecanoic acid (PFTrDA)	6.3		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.6	0.39	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.4		1.6	0.39	ng/L	1		1633	Total/NA
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	1.6	0.39	ng/L	1		1633	Total/NA
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	3.1	0.78	ng/L	1		1633	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: MW-2 (Continued)

Lab Sample ID: 480-223087-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11		7.8	1.9	ng/L	1		1633	Total/NA
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		7.8	1.9	ng/L	1		1633	Total/NA

Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: DUP

Lab Sample ID: 480-223087-1

Date Collected: 09/03/24 00:00

Matrix: Water

Date Received: 09/05/24 09:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	100		3.0	0.75	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoropentanoic acid (PFPeA)	330		1.5	0.45	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorohexanoic acid (PFHxA)	260		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoroheptanoic acid (PFHpA)	250		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorooctanoic acid (PFOA)	590		1.5	0.41	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorononanoic acid (PFNA)	100		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorodecanoic acid (PFDA)	270		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoroundecanoic acid (PFUnA)	65		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorododecanoic acid (PFDoA)	44		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorotridecanoic acid (PFTrDA)	5.8		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorotetradecanoic acid (PFTeDA)	0.78	J	1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorooctanesulfonic acid (PFOS)	2.5		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorononanesulfonic acid (PFNS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.0	0.87	ng/L		09/09/24 09:54	09/10/24 04:22	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.0	0.78	ng/L		09/09/24 09:54	09/10/24 04:22	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.0	0.75	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorooctanesulfonamide (PFOSA)	0.55	J I	1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.5	0.50	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.5	2.2	ng/L		09/09/24 09:54	09/10/24 04:22	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.5	1.9	ng/L		09/09/24 09:54	09/10/24 04:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.1	0.35	ng/L		09/09/24 09:54	09/10/24 04:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: DUP

Lab Sample ID: 480-223087-1

Date Collected: 09/03/24 00:00

Matrix: Water

Date Received: 09/05/24 09:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.8	J	3.0	0.75	ng/L		09/09/24 09:54	09/10/24 04:22	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	13		7.5	1.9	ng/L		09/09/24 09:54	09/10/24 04:22	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		7.5	1.9	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.5	0.38	ng/L		09/09/24 09:54	09/10/24 04:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	127		5 - 130	09/09/24 09:54	09/10/24 04:22	1
13C5 PFPeA	139	*5+	40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C5 PFHxA	119		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C4 PFHpA	130		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C8 PFOA	127		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C9 PFNA	126		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C6 PFDA	123		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C7 PFUnA	105		30 - 130	09/09/24 09:54	09/10/24 04:22	1
13C2 PFTeDA	109		10 - 130	09/09/24 09:54	09/10/24 04:22	1
13C3 PFBS	158	*5+	40 - 135	09/09/24 09:54	09/10/24 04:22	1
13C3 PFHxS	139	*5+	40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C8 PFOS	112		40 - 130	09/09/24 09:54	09/10/24 04:22	1
13C8 PFOSA	102		40 - 130	09/09/24 09:54	09/10/24 04:22	1
d3-NMeFOSAA	98.7		40 - 170	09/09/24 09:54	09/10/24 04:22	1
d5-NEtFOSAA	127		25 - 135	09/09/24 09:54	09/10/24 04:22	1
M2-4:2 FTS	262	*5+	40 - 200	09/09/24 09:54	09/10/24 04:22	1
M2-6:2 FTS	167		40 - 200	09/09/24 09:54	09/10/24 04:22	1
M2-8:2 FTS	132		40 - 300	09/09/24 09:54	09/10/24 04:22	1
13C3 HFPO-DA	141	*5+	40 - 130	09/09/24 09:54	09/10/24 04:22	1
d7-N-MeFOSE-M	57.5		10 - 130	09/09/24 09:54	09/10/24 04:22	1
d9-N-EtFOSE-M	48.0		10 - 130	09/09/24 09:54	09/10/24 04:22	1
d5-NEtPFOSA	64.1		10 - 130	09/09/24 09:54	09/10/24 04:22	1
D3-NMeFOSA	74.3		10 - 130	09/09/24 09:54	09/10/24 04:22	1
13C2-PFDoDA	105		10 - 130	09/09/24 09:54	09/10/24 04:22	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: MW-1

Lab Sample ID: 480-223087-2

Date Collected: 09/03/24 13:20

Matrix: Water

Date Received: 09/05/24 09:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.5	J	6.8	1.7	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoropentanoic acid (PFPeA)	7.0		3.4	1.0	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorohexanoic acid (PFHxA)	7.3		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoroheptanoic acid (PFHpA)	4.5		3.4	0.87	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorooctanoic acid (PFOA)	18		3.4	0.92	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorononanoic acid (PFNA)	1.3	J	3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorodecanoic acid (PFDA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoroundecanoic acid (PFUnA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorododecanoic acid (PFDoA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorotridecanoic acid (PFTrDA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorotetradecanoic acid (PFTeDA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorobutanesulfonic acid (PFBS)	4.4		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoropentanesulfonic acid (PFPeS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorohexanesulfonic acid (PFHxS)	15		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorooctanesulfonic acid (PFOS)	38		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorononanesulfonic acid (PFNS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		6.8	2.0	ng/L		09/09/24 09:54	09/10/24 04:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		6.8	1.8	ng/L		09/09/24 09:54	09/10/24 04:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		6.8	1.7	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorooctanesulfonamide (PFOSA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		3.4	1.1	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		17	5.0	ng/L		09/09/24 09:54	09/10/24 04:38	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		17	4.3	ng/L		09/09/24 09:54	09/10/24 04:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		2.6	0.78	ng/L		09/09/24 09:54	09/10/24 04:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: MW-1

Lab Sample ID: 480-223087-2

Date Collected: 09/03/24 13:20

Matrix: Water

Date Received: 09/05/24 09:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		6.8	1.7	ng/L		09/09/24 09:54	09/10/24 04:38	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		17	4.3	ng/L		09/09/24 09:54	09/10/24 04:38	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		17	4.3	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		3.4	0.85	ng/L		09/09/24 09:54	09/10/24 04:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	101		5 - 130	09/09/24 09:54	09/10/24 04:38	1
13C5 PFPeA	112		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C5 PFHxA	98.1		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C4 PFHpA	99.0		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C8 PFOA	104		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C9 PFNA	104		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C6 PFDA	106		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C7 PFUnA	99.2		30 - 130	09/09/24 09:54	09/10/24 04:38	1
13C2 PFTeDA	110		10 - 130	09/09/24 09:54	09/10/24 04:38	1
13C3 PFBS	110		40 - 135	09/09/24 09:54	09/10/24 04:38	1
13C3 PFHxS	105		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C8 PFOS	106		40 - 130	09/09/24 09:54	09/10/24 04:38	1
13C8 PFOSA	92.7		40 - 130	09/09/24 09:54	09/10/24 04:38	1
d3-NMeFOSAA	102		40 - 170	09/09/24 09:54	09/10/24 04:38	1
d5-NEtFOSAA	162	*5+	25 - 135	09/09/24 09:54	09/10/24 04:38	1
M2-4:2 FTS	115		40 - 200	09/09/24 09:54	09/10/24 04:38	1
M2-6:2 FTS	107		40 - 200	09/09/24 09:54	09/10/24 04:38	1
M2-8:2 FTS	105		40 - 300	09/09/24 09:54	09/10/24 04:38	1
13C3 HFPO-DA	105		40 - 130	09/09/24 09:54	09/10/24 04:38	1
d7-N-MeFOSE-M	86.3		10 - 130	09/09/24 09:54	09/10/24 04:38	1
d9-N-EtFOSE-M	87.5		10 - 130	09/09/24 09:54	09/10/24 04:38	1
d5-NEtPFOSA	77.4		10 - 130	09/09/24 09:54	09/10/24 04:38	1
D3-NMeFOSA	74.4		10 - 130	09/09/24 09:54	09/10/24 04:38	1
13C2-PFDoDA	104		10 - 130	09/09/24 09:54	09/10/24 04:38	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: MW-2

Lab Sample ID: 480-223087-3

Date Collected: 09/03/24 14:30

Matrix: Water

Date Received: 09/05/24 09:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	110		3.1	0.78	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoropentanoic acid (PFPeA)	320		1.6	0.47	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorohexanoic acid (PFHxA)	240		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoroheptanoic acid (PFHpA)	260		1.6	0.40	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorooctanoic acid (PFOA)	610		1.6	0.42	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorononanoic acid (PFNA)	110		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorodecanoic acid (PFDA)	290		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoroundecanoic acid (PFUnA)	70	F1	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorododecanoic acid (PFDoA)	47		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorotridecanoic acid (PFTrDA)	6.3		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorooctanesulfonic acid (PFOS)	2.4		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorononanesulfonic acid (PFNS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		3.1	0.89	ng/L		09/09/24 09:54	09/10/24 05:28	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		3.1	0.80	ng/L		09/09/24 09:54	09/10/24 05:28	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		3.1	0.78	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1.6	0.52	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		7.8	2.3	ng/L		09/09/24 09:54	09/10/24 05:28	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		7.8	1.9	ng/L		09/09/24 09:54	09/10/24 05:28	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.2	0.36	ng/L		09/09/24 09:54	09/10/24 05:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1

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Client Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: MW-2

Lab Sample ID: 480-223087-3

Date Collected: 09/03/24 14:30

Matrix: Water

Date Received: 09/05/24 09:30

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid (9Cl-PF3ONS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid (11Cl-PF3OUdS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	3.1	0.78	ng/L		09/09/24 09:54	09/10/24 05:28	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11		7.8	1.9	ng/L		09/09/24 09:54	09/10/24 05:28	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		7.8	1.9	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		1.6	0.39	ng/L		09/09/24 09:54	09/10/24 05:28	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	118		5 - 130	09/09/24 09:54	09/10/24 05:28	1
13C5 PFPeA	120		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C5 PFHxA	108		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C4 PFHpA	107		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C8 PFOA	116		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C9 PFNA	118		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C6 PFDA	124		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C7 PFUnA	108		30 - 130	09/09/24 09:54	09/10/24 05:28	1
13C2 PFTeDA	123		10 - 130	09/09/24 09:54	09/10/24 05:28	1
13C3 PFBS	140	*5+	40 - 135	09/09/24 09:54	09/10/24 05:28	1
13C3 PFHxS	126		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C8 PFOS	113		40 - 130	09/09/24 09:54	09/10/24 05:28	1
13C8 PFOSA	98.8		40 - 130	09/09/24 09:54	09/10/24 05:28	1
d3-NMeFOSAA	116		40 - 170	09/09/24 09:54	09/10/24 05:28	1
d5-NEtFOSAA	136	*5+	25 - 135	09/09/24 09:54	09/10/24 05:28	1
M2-4:2 FTS	255	*5+	40 - 200	09/09/24 09:54	09/10/24 05:28	1
M2-6:2 FTS	158		40 - 200	09/09/24 09:54	09/10/24 05:28	1
M2-8:2 FTS	129		40 - 300	09/09/24 09:54	09/10/24 05:28	1
13C3 HFPO-DA	108		40 - 130	09/09/24 09:54	09/10/24 05:28	1
d7-N-MeFOSE-M	90.4		10 - 130	09/09/24 09:54	09/10/24 05:28	1
d9-N-EtFOSE-M	87.1		10 - 130	09/09/24 09:54	09/10/24 05:28	1
d5-NEtPFOSA	79.0		10 - 130	09/09/24 09:54	09/10/24 05:28	1
D3-NMeFOSA	82.9		10 - 130	09/09/24 09:54	09/10/24 05:28	1
13C2-PFDoDA	112		10 - 130	09/09/24 09:54	09/10/24 05:28	1

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 240-626249/1-A

Matrix: Water

Analysis Batch: 626324

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 626249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.60	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.51	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.54	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorotridecanoic acid (PFTTrDA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorotetradecanoic acid (PFTeDA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		4.0	1.2	ng/L		09/09/24 09:54	09/10/24 02:09	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		2.0	0.67	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		10	3.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		10	2.5	ng/L		09/09/24 09:54	09/10/24 02:09	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		1.5	0.46	ng/L		09/09/24 09:54	09/10/24 02:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUs)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: MB 240-626249/1-A

Matrix: Water

Analysis Batch: 626324

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 626249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	ND		4.0	1.0	ng/L		09/09/24 09:54	09/10/24 02:09	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	ND		10	2.5	ng/L		09/09/24 09:54	09/10/24 02:09	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	ND		10	2.5	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		2.0	0.50	ng/L		09/09/24 09:54	09/10/24 02:09	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	94.6		5 - 130	09/09/24 09:54	09/10/24 02:09	1
13C5 PFPeA	89.9		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C5 PFHxA	91.6		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C4 PFHpA	93.2		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C8 PFOA	93.9		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C9 PFNA	91.6		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C6 PFDA	91.9		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C7 PFUnA	85.7		30 - 130	09/09/24 09:54	09/10/24 02:09	1
13C2 PFTeDA	96.9		10 - 130	09/09/24 09:54	09/10/24 02:09	1
13C3 PFBS	102		40 - 135	09/09/24 09:54	09/10/24 02:09	1
13C3 PFHxS	97.8		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C8 PFOS	93.4		40 - 130	09/09/24 09:54	09/10/24 02:09	1
13C8 PFOSA	85.1		40 - 130	09/09/24 09:54	09/10/24 02:09	1
d3-NMeFOSAA	93.5		40 - 170	09/09/24 09:54	09/10/24 02:09	1
d5-NEtFOSAA	164	*5+	25 - 135	09/09/24 09:54	09/10/24 02:09	1
M2-4:2 FTS	112		40 - 200	09/09/24 09:54	09/10/24 02:09	1
M2-6:2 FTS	99.6		40 - 200	09/09/24 09:54	09/10/24 02:09	1
M2-8:2 FTS	101		40 - 300	09/09/24 09:54	09/10/24 02:09	1
13C3 HFPO-DA	94.5		40 - 130	09/09/24 09:54	09/10/24 02:09	1
d7-N-MeFOSE-M	69.6		10 - 130	09/09/24 09:54	09/10/24 02:09	1
d9-N-EtFOSE-M	67.0		10 - 130	09/09/24 09:54	09/10/24 02:09	1
d5-NEtPFOSA	60.7		10 - 130	09/09/24 09:54	09/10/24 02:09	1
D3-NMeFOSA	57.0		10 - 130	09/09/24 09:54	09/10/24 02:09	1
13C2-PFDoDA	85.1		10 - 130	09/09/24 09:54	09/10/24 02:09	1

Lab Sample ID: LCS 240-626249/3-A

Matrix: Water

Analysis Batch: 626324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	80.0	92.3		ng/L		115	70 - 140
Perfluoropentanoic acid (PFPeA)	40.0	38.1		ng/L		95	65 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.8		ng/L		112	70 - 145
Perfluoroheptanoic acid (PFHpA)	40.0	47.1		ng/L		118	70 - 150
Perfluorooctanoic acid (PFOA)	40.0	46.6		ng/L		116	70 - 150
Perfluorononanoic acid (PFNA)	40.0	46.0		ng/L		115	70 - 150
Perfluorodecanoic acid (PFDA)	40.0	46.6		ng/L		117	70 - 140

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-626249/3-A

Matrix: Water

Analysis Batch: 626324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroundecanoic acid (PFUnA)	40.0	50.4		ng/L		126	70 - 145
Perfluorododecanoic acid (PFDoA)	40.0	40.8		ng/L		102	70 - 140
Perfluorotridecanoic acid (PFTrDA)	40.0	41.7		ng/L		104	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	40.0	37.6		ng/L		94	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.4	43.2		ng/L		122	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	37.5	42.9		ng/L		114	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	36.4	42.0		ng/L		115	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	38.1	45.4		ng/L		119	70 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	45.8		ng/L		123	55 - 150
Perfluorononanesulfonic acid (PFNS)	38.4	45.0		ng/L		117	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.0		ng/L		95	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	74.7	87.3		ng/L		117	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	75.8	81.3		ng/L		107	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	76.6	89.9		ng/L		117	60 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	47.2		ng/L		118	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	40.0	50.5		ng/L		126	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	40.0	47.2		ng/L		118	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.9		ng/L		115	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.5		ng/L		101	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	200	211		ng/L		105	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	200	211		ng/L		106	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	30.0	34.0		ng/L		113	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	40.7		ng/L		108	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	40.0	40.2		ng/L		100	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	40.0	44.9		ng/L		112	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	37.3	36.9		ng/L		99	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	37.7	33.0		ng/L		88	55 - 160

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 240-626249/3-A

Matrix: Water

Analysis Batch: 626324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	35.6	43.0		ng/L		121	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	80.0	79.8		ng/L		100	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	200	209		ng/L		105	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	200	187		ng/L		93	50 - 145
Perfluorodecanesulfonic acid (PFDS)	38.6	42.5		ng/L		110	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	40.0	40.0		ng/L		100	55 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	126		5 - 130
13C5 PFPeA	139	*5+	40 - 130
13C5 PFHxA	117		40 - 130
13C4 PFHpA	122		40 - 130
13C8 PFOA	124		40 - 130
13C9 PFNA	129		40 - 130
13C6 PFDA	128		40 - 130
13C7 PFUnA	118		30 - 130
13C2 PFTeDA	124		10 - 130
13C3 PFBS	135		40 - 135
13C3 PFHxS	133	*5+	40 - 130
13C8 PFOS	126		40 - 130
13C8 PFOSA	114		40 - 130
d3-NMeFOSAA	122		40 - 170
d5-NEtFOSAA	236	*5+	25 - 135
M2-4:2 FTS	140		40 - 200
M2-6:2 FTS	130		40 - 200
M2-8:2 FTS	130		40 - 300
13C3 HFPO-DA	126		40 - 130
d7-N-MeFOSE-M	83.3		10 - 130
d9-N-EtFOSE-M	76.5		10 - 130
d5-NEtPFOSA	82.5		10 - 130
D3-NMeFOSA	85.0		10 - 130
13C2-PFDoDA	124		10 - 130

Lab Sample ID: LLCS 240-626249/2-A

Matrix: Water

Analysis Batch: 626324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	8.00	10.6		ng/L		133	70 - 140
Perfluoropentanoic acid (PFPeA)	4.00	4.54		ng/L		113	65 - 135
Perfluorohexanoic acid (PFHxA)	4.00	5.60		ng/L		140	70 - 145
Perfluoroheptanoic acid (PFHpA)	4.00	5.49		ng/L		137	70 - 150
Perfluorooctanoic acid (PFOA)	4.00	5.99		ng/L		150	70 - 150
Perfluorononanoic acid (PFNA)	4.00	5.93		ng/L		148	70 - 150

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-626249/2-A

Matrix: Water

Analysis Batch: 626324

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorodecanoic acid (PFDA)	4.00	4.72		ng/L		118	70 - 140
Perfluoroundecanoic acid (PFUnA)	4.00	5.58		ng/L		140	70 - 145
Perfluorododecanoic acid (PFDoA)	4.00	4.99		ng/L		125	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	4.00	4.93		ng/L		123	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	4.00	4.60		ng/L		115	60 - 140
Perfluorobutanesulfonic acid (PFBS)	3.54	4.21		ng/L		119	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	3.75	4.58		ng/L		122	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	3.64	4.73		ng/L		130	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	3.81	5.49		ng/L		144	70 - 150
Perfluorooctanesulfonic acid (PFOS)	3.71	5.36		ng/L		144	55 - 150
Perfluorononanesulfonic acid (PFNS)	3.84	5.10		ng/L		133	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	3.87	4.96		ng/L		128	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	7.47	10.4		ng/L		139	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	7.58	8.60		ng/L		113	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	7.66	10.8		ng/L		141	60 - 150
Perfluorooctanesulfonamide (PFOSA)	4.00	5.42		ng/L		136	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	4.00	5.26		ng/L		132	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	4.00	5.16		ng/L		129	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.00	5.48		ng/L		137	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	4.00	4.59		ng/L		115	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	20.0	25.5		ng/L		128	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	20.0	24.6		ng/L		123	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	3.00	3.74		ng/L		125	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.77	4.81		ng/L		128	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.00	4.58		ng/L		115	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.00	5.53		ng/L		138	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	3.73	4.39		ng/L		118	70 - 155

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 240-626249/2-A
Matrix: Water
Analysis Batch: 626324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626249

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.77	4.41		ng/L		117	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	3.56	4.65		ng/L		131	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	8.00	8.56		ng/L		107	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	20.0	22.5		ng/L		112	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	20.0	22.5		ng/L		112	50 - 145
Perfluorodecanesulfonic acid (PFDS)	3.86	5.06		ng/L		131	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.00	4.60		ng/L		115	55 - 140

Isotope Dilution	LLCS %Recovery	LLCS Qualifier	LLCS Limits
13C4 PFBA	84.5		5 - 130
13C5 PFPeA	87.0		40 - 130
13C5 PFHxA	75.5		40 - 130
13C4 PFHpA	81.2		40 - 130
13C8 PFOA	78.6		40 - 130
13C9 PFNA	83.8		40 - 130
13C6 PFDA	85.7		40 - 130
13C7 PFUnA	81.1		30 - 130
13C2 PFTeDA	96.9		10 - 130
13C3 PFBS	97.3		40 - 135
13C3 PFHxS	91.0		40 - 130
13C8 PFOS	83.3		40 - 130
13C8 PFOSA	75.5		40 - 130
d3-NMeFOSAA	83.9		40 - 170
d5-NEtFOSAA	164	*5+	25 - 135
M2-4:2 FTS	93.4		40 - 200
M2-6:2 FTS	91.3		40 - 200
M2-8:2 FTS	92.6		40 - 300
13C3 HFPO-DA	80.9		40 - 130
d7-N-MeFOSE-M	68.5		10 - 130
d9-N-EtFOSE-M	67.2		10 - 130
d5-NEtPFOSA	56.9		10 - 130
D3-NMeFOSA	57.5		10 - 130
13C2-PFDoDA	84.1		10 - 130

Lab Sample ID: 480-223087-3 MS
Matrix: Water
Analysis Batch: 626324

Client Sample ID: MW-2 MS
Prep Type: Total/NA
Prep Batch: 626249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	110		59.7	189		ng/L		132	70 - 140
Perfluoropentanoic acid (PFPeA)	320		29.9	403	4	ng/L		281	65 - 135
Perfluorohexanoic acid (PFHxA)	240		29.9	304	4	ng/L		200	70 - 145
Perfluoroheptanoic acid (PFHpA)	260		29.9	310	4	ng/L		182	70 - 150

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-223087-3 MS

Matrix: Water

Analysis Batch: 626324

Client Sample ID: MW-2 MS

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorooctanoic acid (PFOA)	610		29.9	647	4	ng/L		117	70 - 150
Perfluorononanoic acid (PFNA)	110		29.9	147		ng/L		126	70 - 150
Perfluorodecanoic acid (PFDA)	290		29.9	338	E 4	ng/L		169	70 - 140
Perfluoroundecanoic acid (PFUnA)	70	F1	29.9	118	F1	ng/L		164	70 - 145
Perfluorododecanoic acid (PFDoA)	47		29.9	77.3		ng/L		102	70 - 140
Perfluorotridecanoic acid (PFTTrDA)	6.3		29.9	39.6		ng/L		112	65 - 140
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	29.9	34.0		ng/L		111	60 - 140
Perfluorobutanesulfonic acid (PFBS)	1.0	J	26.4	35.8		ng/L		132	60 - 145
Perfluoropentanesulfonic acid (PFPeS)	ND		28.0	37.3		ng/L		133	65 - 140
Perfluorohexanesulfonic acid (PFHxS)	ND		27.2	33.5		ng/L		123	65 - 145
Perfluoroheptanesulfonic acid (PFHpS)	ND		28.4	37.9		ng/L		133	70 - 150
Perfluorooctanesulfonic acid (PFOS)	2.4		27.7	39.6		ng/L		134	55 - 150
Perfluorononanesulfonic acid (PFNS)	ND		28.7	34.7		ng/L		121	65 - 145
Perfluorododecanesulfonic acid (PFDoS)	ND		28.9	31.0		ng/L		107	50 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		55.8	77.2		ng/L		139	70 - 145
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		56.6	67.5		ng/L		119	65 - 155
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		57.2	72.8		ng/L		127	60 - 150
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	29.9	39.3		ng/L		130	70 - 145
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		29.9	40.6		ng/L		136	60 - 150
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		29.9	39.5		ng/L		132	65 - 145
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		29.9	39.2		ng/L		131	50 - 140
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		29.9	33.1		ng/L		111	70 - 145
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		149	179		ng/L		120	70 - 145
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		149	189		ng/L		127	70 - 135
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		22.4	28.4		ng/L		127	70 - 140
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		28.1	31.3		ng/L		111	65 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		29.9	36.6		ng/L		123	60 - 150
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		29.9	38.9		ng/L		130	50 - 150

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-223087-3 MS

Matrix: Water

Analysis Batch: 626324

Client Sample ID: MW-2 MS

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	ND		27.8	29.7		ng/L		107	70 - 155
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		28.1	27.1		ng/L		96	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	ND		26.6	35.7		ng/L		134	70 - 140
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	59.7	71.4		ng/L		115	65 - 130
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11		149	180		ng/L		113	70 - 135
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		149	172		ng/L		106	50 - 145
Perfluorodecanesulfonic acid (PFDS)	ND		28.8	34.3		ng/L		119	60 - 145
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		29.9	37.8		ng/L		127	55 - 140

Isotope Dilution	%Recovery	MS Qualifier	MS Limits
13C4 PFBA	88.0		5 - 130
13C5 PFPeA	95.3		40 - 130
13C5 PFHxA	88.4		40 - 130
13C4 PFHpA	91.1		40 - 130
13C8 PFOA	92.9		40 - 130
13C9 PFNA	95.7		40 - 130
13C6 PFDA	93.5		40 - 130
13C7 PFUnA	83.0		30 - 130
13C2 PFTeDA	90.4		10 - 130
13C3 PFBS	107		40 - 135
13C3 PFHxS	99.5		40 - 130
13C8 PFOS	96.1		40 - 130
13C8 PFOSA	83.7		40 - 130
d3-NMeFOSAA	90.0		40 - 170
d5-NEtFOSAA	127		25 - 135
M2-4:2 FTS	187		40 - 200
M2-6:2 FTS	125		40 - 200
M2-8:2 FTS	101		40 - 300
13C3 HFPO-DA	96.6		40 - 130
d7-N-MeFOSE-M	68.9		10 - 130
d9-N-EtFOSE-M	60.7		10 - 130
d5-NEtPFOSA	63.4		10 - 130
D3-NMeFOSA	64.6		10 - 130
13C2-PFDoDA	89.4		10 - 130

Lab Sample ID: 480-223087-3 MSD

Matrix: Water

Analysis Batch: 626324

Client Sample ID: MW-2 MSD

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	110		60.6	174		ng/L		106	70 - 140	8	30

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-223087-3 MSD

Matrix: Water

Analysis Batch: 626324

Client Sample ID: MW-2 MSD

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluoropentanoic acid (PFPeA)	320		30.3	380	4	ng/L		202	65 - 135	6	30
Perfluorohexanoic acid (PFHxA)	240		30.3	276	4	ng/L		106	70 - 145	10	30
Perfluoroheptanoic acid (PFHpA)	260		30.3	296	4	ng/L		135	70 - 150	4	30
Perfluorooctanoic acid (PFOA)	610		30.3	606	4	ng/L		-20	70 - 150	7	30
Perfluorononanoic acid (PFNA)	110		30.3	136		ng/L		88	70 - 150	8	30
Perfluorodecanoic acid (PFDA)	290		30.3	298	4	ng/L		33	70 - 140	13	30
Perfluoroundecanoic acid (PFUnA)	70	F1	30.3	108		ng/L		128	70 - 145	9	30
Perfluorododecanoic acid (PFDoA)	47		30.3	78.7		ng/L		105	70 - 140	2	30
Perfluorotridecanoic acid (PFTrDA)	6.3		30.3	36.1		ng/L		98	65 - 140	9	30
Perfluorotetradecanoic acid (PFTeDA)	0.90	J	30.3	31.0		ng/L		99	60 - 140	9	30
Perfluorobutanesulfonic acid (PFBS)	1.0	J	26.8	35.3		ng/L		128	60 - 145	1	30
Perfluoropentanesulfonic acid (PFPeS)	ND		28.4	33.4		ng/L		117	65 - 140	11	30
Perfluorohexanesulfonic acid (PFHxS)	ND		27.6	30.4		ng/L		110	65 - 145	10	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		28.8	35.9		ng/L		124	70 - 150	5	30
Perfluorooctanesulfonic acid (PFOS)	2.4		28.1	36.8		ng/L		122	55 - 150	7	30
Perfluorononanesulfonic acid (PFNS)	ND		29.1	32.9		ng/L		113	65 - 145	5	30
Perfluorododecanesulfonic acid (PFDoS)	ND		29.3	30.6		ng/L		104	50 - 145	1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	ND		56.6	69.2		ng/L		122	70 - 145	11	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	ND		57.5	66.9		ng/L		116	65 - 155	1	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	ND		58.1	68.1		ng/L		117	60 - 150	7	30
Perfluorooctanesulfonamide (PFOSA)	0.60	J I	30.3	37.8		ng/L		123	70 - 145	4	30
N-methylperfluorooctane sulfonamide (NMeFOSA)	ND		30.3	36.4		ng/L		120	60 - 150	11	30
N-ethylperfluorooctane sulfonamide (NEtFOSA)	ND		30.3	35.2		ng/L		116	65 - 145	11	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		30.3	35.4		ng/L		117	50 - 140	10	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		30.3	32.1		ng/L		106	70 - 145	3	30
N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)	ND		152	164		ng/L		109	70 - 145	9	30
N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)	ND		152	158		ng/L		104	70 - 135	18	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		22.7	24.4		ng/L		107	70 - 140	15	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		28.5	29.4		ng/L		103	65 - 145	6	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND		30.3	32.8		ng/L		108	60 - 150	11	30

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 480-223087-3 MSD

Matrix: Water

Analysis Batch: 626324

Client Sample ID: MW-2 MSD

Prep Type: Total/NA

Prep Batch: 626249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	ND		30.3	39.7		ng/L		131	50 - 150	2	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	ND		28.2	29.8		ng/L		106	70 - 155	0	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	ND		28.5	27.3		ng/L		96	55 - 160	1	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	ND		27.0	34.4		ng/L		127	70 - 140	4	30
3-Perfluoropropylpropanoic acid (3:3 FTCA)	2.9	J	60.6	66.1		ng/L		104	65 - 130	8	30
3-Perfluoropentylpropanoic acid (5:3 FTCA)	11		152	167		ng/L		102	70 - 135	7	30
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	13		152	169		ng/L		103	50 - 145	1	30
Perfluorodecanesulfonic acid (PFDS)	ND		29.2	32.6		ng/L		112	60 - 145	5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND		30.3	33.3		ng/L		110	55 - 140	13	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C4 PFBA	85.1		5 - 130
13C5 PFPeA	91.2		40 - 130
13C5 PFHxA	83.6		40 - 130
13C4 PFHpA	86.7		40 - 130
13C8 PFOA	89.7		40 - 130
13C9 PFNA	96.8		40 - 130
13C6 PFDA	99.9		40 - 130
13C7 PFUnA	88.0		30 - 130
13C2 PFTeDA	98.1		10 - 130
13C3 PFBS	106		40 - 135
13C3 PFHxS	101		40 - 130
13C8 PFOS	93.1		40 - 130
13C8 PFOSA	79.3		40 - 130
d3-NMeFOSAA	88.8		40 - 170
d5-NEtFOSAA	130		25 - 135
M2-4:2 FTS	187		40 - 200
M2-6:2 FTS	122		40 - 200
M2-8:2 FTS	102		40 - 300
13C3 HFPO-DA	94.3		40 - 130
d7-N-MeFOSE-M	73.0		10 - 130
d9-N-EtFOSE-M	63.7		10 - 130
d5-NEtPFOSA	63.8		10 - 130
D3-NMeFOSA	65.9		10 - 130
13C2-PFDoDA	91.0		10 - 130

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QC Association Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

LCMS

Prep Batch: 626249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223087-1	DUP	Total/NA	Water	1633	
480-223087-2	MW-1	Total/NA	Water	1633	
480-223087-3	MW-2	Total/NA	Water	1633	
MB 240-626249/1-A	Method Blank	Total/NA	Water	1633	
LCS 240-626249/3-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 240-626249/2-A	Lab Control Sample	Total/NA	Water	1633	
480-223087-3 MS	MW-2 MS	Total/NA	Water	1633	
480-223087-3 MSD	MW-2 MSD	Total/NA	Water	1633	

Analysis Batch: 626324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-223087-1	DUP	Total/NA	Water	1633	626249
480-223087-2	MW-1	Total/NA	Water	1633	626249
480-223087-3	MW-2	Total/NA	Water	1633	626249
MB 240-626249/1-A	Method Blank	Total/NA	Water	1633	626249
LCS 240-626249/3-A	Lab Control Sample	Total/NA	Water	1633	626249
LLCS 240-626249/2-A	Lab Control Sample	Total/NA	Water	1633	626249
480-223087-3 MS	MW-2 MS	Total/NA	Water	1633	626249
480-223087-3 MSD	MW-2 MSD	Total/NA	Water	1633	626249

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Client Sample ID: DUP

Date Collected: 09/03/24 00:00

Date Received: 09/05/24 09:30

Lab Sample ID: 480-223087-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			626249	JVB4	EET CLE	09/09/24 09:54
Total/NA	Analysis	1633		1	626324	MRL	EET CLE	09/10/24 04:22

Client Sample ID: MW-1

Date Collected: 09/03/24 13:20

Date Received: 09/05/24 09:30

Lab Sample ID: 480-223087-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			626249	JVB4	EET CLE	09/09/24 09:54
Total/NA	Analysis	1633		1	626324	MRL	EET CLE	09/10/24 04:38

Client Sample ID: MW-2

Date Collected: 09/03/24 14:30

Date Received: 09/05/24 09:30

Lab Sample ID: 480-223087-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			626249	JVB4	EET CLE	09/09/24 09:54
Total/NA	Analysis	1633		1	626324	MRL	EET CLE	09/10/24 05:28

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Laboratory: Eurofins Cleveland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10975	04-02-25

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
1633	1633	Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)
1633	1633	Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
1633	1633	Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
1633	1633	Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
1633	1633	Water	3-Perfluoroheptylpropanoic acid (7:3 FTCA)
1633	1633	Water	3-Perfluoropentylpropanoic acid (5:3 FTCA)
1633	1633	Water	3-Perfluoropropylpropanoic acid (3:3 FTCA)
1633	1633	Water	4,8-Dioxo-3H-perfluorononanoic acid (ADONA)
1633	1633	Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)
1633	1633	Water	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
1633	1633	Water	N-ethylperfluorooctane sulfonamide (NEtFOSA)
1633	1633	Water	N-ethylperfluorooctane sulfonamidoethanol (NEtFOSE)
1633	1633	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
1633	1633	Water	N-methylperfluorooctane sulfonamide (NMeFOSA)
1633	1633	Water	N-methylperfluorooctane sulfonamidoethanol (NMeFOSE)
1633	1633	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
1633	1633	Water	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)
1633	1633	Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)
1633	1633	Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
1633	1633	Water	Perfluoro-4-methoxybutanoic acid (PFMBA)
1633	1633	Water	Perfluorobutanesulfonic acid (PFBS)
1633	1633	Water	Perfluorobutanoic acid (PFBA)
1633	1633	Water	Perfluorodecanesulfonic acid (PFDS)
1633	1633	Water	Perfluorodecanoic acid (PFDA)
1633	1633	Water	Perfluorododecanesulfonic acid (PFDoS)
1633	1633	Water	Perfluorododecanoic acid (PFDaA)
1633	1633	Water	Perfluoroheptanesulfonic acid (PFHpS)
1633	1633	Water	Perfluoroheptanoic acid (PFHpA)
1633	1633	Water	Perfluorohexanesulfonic acid (PFHxS)
1633	1633	Water	Perfluorohexanoic acid (PFHxA)

Eurofins Buffalo

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Laboratory: Eurofins Cleveland (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
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
1633	1633	Water	Perfluorononanesulfonic acid (PFNS)
1633	1633	Water	Perfluorononanoic acid (PFNA)
1633	1633	Water	Perfluorooctanesulfonamide (PFOSA)
1633	1633	Water	Perfluorooctanesulfonic acid (PFOS)
1633	1633	Water	Perfluorooctanoic acid (PFOA)
1633	1633	Water	Perfluoropentanesulfonic acid (PFPeS)
1633	1633	Water	Perfluoropentanoic acid (PFPeA)
1633	1633	Water	Perfluorotetradecanoic acid (PFTeDA)
1633	1633	Water	Perfluorotridecanoic acid (PFTrDA)
1633	1633	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	EET CLE
1633	Solid-Phase Extraction (SPE)	EPA	EET CLE

- Protocol References:**
EPA = US Environmental Protection Agency
- Laboratory References:**
EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

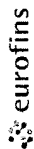
Job ID: 480-223087-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-223087-1	DUP	Water	09/03/24 00:00	09/05/24 09:30
480-223087-2	MW-1	Water	09/03/24 13:20	09/05/24 09:30
480-223087-3	MW-2	Water	09/03/24 14:30	09/05/24 09:30

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

Client Information Client Contact: Michaela Cochran Company: New York State D.E.C. Address: 325 Broadway 12th Floor City: Albany State: NY, Zip: 12233-7017 Phone: 518-402-9669(Tel) Email: Michaela.cochran@dec.ny.gov Project Name: Pound Ridge Spill #2400692 PIN H7411 Site: Pound Ridge		Due Date Requested: 9/20/24 TAT Requested (days): 30 Compliance Project: ☐ Yes ☒ No PO #: 48027807 WO #: 48027807 Project #: 48027807 SSOW#		Lab PM: Fischer, Brian J E-Mail: Brian.Fischer@et.eurofinsus.com Carrier Tracking No(s): 480-198889-41092.1 State of Origin: NY Page 1 of 1 Job #:	
Sample Identification DUP MW-1 MW-2 MW-2-MS MW-2-MSD		Sample Date: 8/21/24 Sample Time: 1:20pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 1:20pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1633 Standard List 40	
Sample Identification		Sample Date: 8/21/24 Sample Time: 2:30pm Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air): Water		Field Filtered Sample (Yes or No): ☒ Perform MS/MSD (Yes or No): ☒ 1633_Final - 1	

Chain of Custody Record



Environmental Testing

Client Information		Sampler: Michaela Cochran		Lab PM: Fischer, Brian J		Carrier Tracking No(s):		COC No: 480-198889-41092.1	
Client Contact:		Phone:		E-Mail: Brian.Fischer@eurofins.com		State of Origin: NY		Page 1 of 1	
Company:		Address:		City:		State:		Job #:	
New York State D.E.C.		625 Broadway 12th Floor		Albany		NY			
State, Zip:		NY, 12233-7017							
Phone:		518-402-9669 (Tel)							
Email:		Michaela.cochran@dec.ny.gov							
Project Name:		Pound Ridge Spill #2400692 PIN H7411							
Site:		Pound Ridge							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633 Final - 1633 Standard List 40	Total Number of Containers	Special Instructions/Note:
DUP	9/13/24	8:12 AM	G	Water	X	X	N	3	
MW-1		1:20 PM	↓	Water	X	X	3	3	
MW-2		2:20 PM	↓	Water	X	X	3	3	
MW-2-MS		↓	↓	Water	X	X	3	3	
MW-2-MSD		↓	↓	Water	X	X	3	3	
									SUL 9/14/24
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I, II, III, IV, Other (specify) Cat B / EDD									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months									
Special Instructions/QC Requirements:									
Empty Kit Relinquished by:									
Relinquished by: Michaela Cochran Date: 9/13/24 Company: NYDEC									
Relinquished by: Sam Vt Rock Date: 9/14/24 Company: EETN									
Relinquished by: _____ Date: _____ Company: _____									
Custody Seals Intact: ☐ Yes ☐ No									
Custody Seal No.:									
Cooler Temperature(s) °C and Other Remarks:									

1.0/2.0

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler		Lab PM: Fischer Brian J		Carrier Tracking No(s):		COC No: 480-89290.1											
Client Contact: Shipping/Receiving		Phone:		E-Mail: Brian.Fischer@et.eurofinsus.com		State of Origin: New York		Page: Page 1 of 1											
Company: Eurofins Environment Testing North Centr				Accreditations Required (See note): NELAP New York				Job #: 480-223087 1											
Address: 180 S. Van Buren Avenue,		Due Date Requested: 10/16/2024		Analysis Requested				Preservation Codes:											
City: Barberton		TAT Requested (days):																	
State, Zip: OH, 44203																			
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		PO #:																	
Email:		WO #:																	
Project Name: Pound Ridge Spill #2400692 PIN H7411		Project #: 48027807		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 1633_Final/1633_SPE 1633 Standard List 40				Total Number of containers											
Site:		SSOW#:																	
Sample Identification Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, ST=Trace, Anal)									Other: P88-64					
						Preservation Code:								Special Instructions/Note:					
DUP (480-223087 1)		8/21/24	Eastern	G	Water		X										3		
MW-1 (480-223087-2)		8/21/24	13:20 Eastern	G	Water		X										3		
MW-2 (480-223087-3)		8/21/24	14:30 Eastern	G	Water		X										3		
MW-2 (480-223087-3MS)		8/21/24	14:30 Eastern	G	Water		X										3		
MW-2 (480-223087-3MSD)		8/21/24	14:30 Eastern	G	Water		X										3		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.																			
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Unconfirmed										☐ 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: KB					Date/Time: 9/5/24 1600					Company:					Received by: JESSICA RIGDON				
Relinquished by:					Date/Time:					Company:					Received by:				
Relinquished by:					Date/Time:					Company:					Received by:				
Custody Seals Intact: ☐ Yes ☐ No					Custody Seal No.					Cooler Temperature(s) °C and Other Remarks:									

Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____
Barberton Facility

Client Eurofins - Buffalo Site Name _____ Cooler unpacked by: _____

Cooler Received on 9-6-24 Opened on 9-6-24 JESSICA RIGDON

FedEx: 1st Grd EXP UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: et Ice Blue Ice Dry Ice Water None _____

☐ See Multiple Cooler Form

1 Cooler temperature upon receipt IR GUN # 19 (CF +1.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No NA

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4. Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12. Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC442471

14 Were VOAAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Yes No NA

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17 Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page Samples processed by _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

Tests that are not checked for pH by Receiving
VOAs
Oil and Grease
TOC

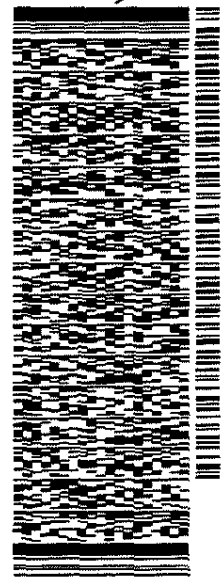
SAMPLE CONTROL
EUROFINS ENVIRONMENT TESTING
10 HAZELWOOD DRIVE
BUFFALO, NY 142282223
UNITED STATES US

TO
SAMPLE RECEIPT
EUROFINS CLEVELAND
180 S VAN BUREN AVE

LB
ME3808
IN
RT
164
FZ

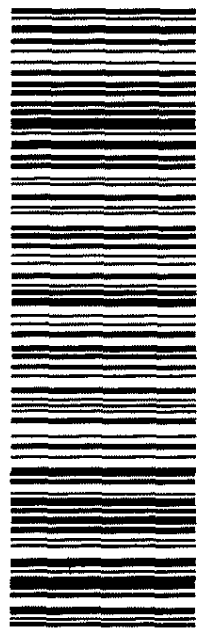
BARBERTON OH 442033543

(330) 487-8886
REF: BARBERTON



FRI - 06 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 7463 0658 2376
09201
NX CAKA
44203
OH-US CLE



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-223087-1

Login Number: 223087

List Number: 1

Creator: Wallace, Cameron

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers 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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	NYS DEC
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-223087-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (5-130)	PFPeA (40-130)	13C5PHA (40-130)	C4PFHA (40-130)	C8PFOA (40-130)	C9PFNA (40-130)	C6PFDA (40-130)	13C7PUA (30-130)
480-223087-1	DUP	127	139 *5+	119	130	127	126	123	105
480-223087-2	MW-1	101	112	98.1	99.0	104	104	106	99.2
480-223087-3	MW-2	118	120	108	107	116	118	124	108
480-223087-3 MS	MW-2 MS	88.0	95.3	88.4	91.1	92.9	95.7	93.5	83.0
480-223087-3 MSD	MW-2 MSD	85.1	91.2	83.6	86.7	89.7	96.8	99.9	88.0
LCS 240-626249/3-A	Lab Control Sample	126	139 *5+	117	122	124	129	128	118
LLCS 240-626249/2-A	Lab Control Sample	84.5	87.0	75.5	81.2	78.6	83.8	85.7	81.1
MB 240-626249/1-A	Method Blank	94.6	89.9	91.6	93.2	93.9	91.6	91.9	85.7

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFTDA (10-130)	C3PFBS (40-135)	C3PFHS (40-130)	C8PFOS (40-130)	PFOSA (40-130)	d3NMFOS (40-170)	d5NEFOS (25-135)	M242FTS (40-200)
480-223087-1	DUP	109	158 *5+	139 *5+	112	102	98.7	127	262 *5+
480-223087-2	MW-1	110	110	105	106	92.7	102	162 *5+	115
480-223087-3	MW-2	123	140 *5+	126	113	98.8	116	136 *5+	255 *5+
480-223087-3 MS	MW-2 MS	90.4	107	99.5	96.1	83.7	90.0	127	187
480-223087-3 MSD	MW-2 MSD	98.1	106	101	93.1	79.3	88.8	130	187
LCS 240-626249/3-A	Lab Control Sample	124	135	133 *5+	126	114	122	236 *5+	140
LLCS 240-626249/2-A	Lab Control Sample	96.9	97.3	91.0	83.3	75.5	83.9	164 *5+	93.4
MB 240-626249/1-A	Method Blank	96.9	102	97.8	93.4	85.1	93.5	164 *5+	112

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (40-200)	M282FTS (40-300)	HFPODA (40-130)	NMFM (10-130)	NEFM (10-130)	d5NPFSA (10-130)	d3NMFSA (10-130)	PFDODA (10-130)
480-223087-1	DUP	167	132	141 *5+	57.5	48.0	64.1	74.3	105
480-223087-2	MW-1	107	105	105	86.3	87.5	77.4	74.4	104
480-223087-3	MW-2	158	129	108	90.4	87.1	79.0	82.9	112
480-223087-3 MS	MW-2 MS	125	101	96.6	68.9	60.7	63.4	64.6	89.4
480-223087-3 MSD	MW-2 MSD	122	102	94.3	73.0	63.7	63.8	65.9	91.0
LCS 240-626249/3-A	Lab Control Sample	130	130	126	83.3	76.5	82.5	85.0	124
LLCS 240-626249/2-A	Lab Control Sample	91.3	92.6	80.9	68.5	67.2	56.9	57.5	84.1
MB 240-626249/1-A	Method Blank	99.6	101	94.5	69.6	67.0	60.7	57.0	85.1

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 PFOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS

Eurofins Buffalo

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-223087-1

Project/Site: Pound Ridge Spill #2400692 PIN H7411

M282FTS = M2-8:2 FTS

HFPODA = 13C3 HFPO-DA

NMFM = d7-N-MeFOSE-M

NEFM = d9-N-EtFOSE-M

d5NPFSA = d5-NEtPFOSA

d3NMFSA = D3-NMeFOSA

PFDODA = 13C2-PFDODA

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