



ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Pound Ridge Spill #2400692 PIN H7411

JOB NUMBER

480-221475-1

Eurofins Buffalo

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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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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 480-221475-1

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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 (PFTrDA)	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.

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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: 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.

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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

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 (PFTrDA)	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
Date Collected: 07/08/24 00:00
Date Received: 07/10/24 10:30

Lab Sample ID: 480-221475-1
Matrix: Water

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 (PFTrDA)	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 (9Cl-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 (11Cl-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

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 (PFTrDA)	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)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
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)

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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 (PFTrDA)	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 (9Cl-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 (11Cl-PF3OUdS)	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-methylperfluorooctanesulfonamide (NMeFOSAA)	40.0	47.5		ng/L		119	50 - 140
N-ethylperfluorooctanesulfonamide (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 (PFEEESA)	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 (PFTrDA)	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

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-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	3.77	4.97		ng/L		132	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	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 (9Cl-PF3ONS)	ND		33.0	31.9		ng/L		97	70 - 155

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

Client Sample ID: MW-2-15

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 620220

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		33.3	32.4		ng/L		97	55 - 160
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	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 MS		Limits
	%Recovery	Qualifier	
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

Client Sample ID: MW-2-5

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 620220

Prep Batch: 619826

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
				Result	Qualifier					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-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	ND		33.9	36.8		ng/L		108	50 - 140	5	30
N-ethylperfluorooctanesulfonamide acetic 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 (9Cl-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 - DL (Continued)

Isotope Dilution	MS MS		Limits
	%Recovery	Qualifier	
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	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
Perfluorooctanoic acid (PFOA) - DL	410		33.9	422	4	ng/L		30	70 - 150	1	30	

Isotope Dilution	MSD MSD		Limits
	%Recovery	Qualifier	
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

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		Limits
	%Recovery	Qualifier	
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		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
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		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
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-Dioxa-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 (PFDoA)
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
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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.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

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.
Project/Site: Pound Ridge Spill #2400692 PIN H7411

Job ID: 480-221475-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
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

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Client Information		Lab PM Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-197792-40920.1
Client Contact Michaela Cochran		E-Mail Brian.Fischer@et.eurofins.com	State of Origin:	Page Page 1 of 1
Company New York State D.E.C.		PWSID	Job #	
Address 625 Broadway 12th Floor		Due Date Requested: 8/7/24	Preservation Codes: N - None H - Ascorbic Acid	
City Albany		TAT Requested (days): Standard (30)	Other:	
State, Zip NY, 12233-7017		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Total Number of containers	
Phone 518-402-9669(Tel)		PO # Callout ID: 152002	Perform MS/MSD (Yes or No)	
Email: Michaela.cochran@dec.ny.gov		WO #	Field Filtered Sample (Yes or No)	
Project Name Pound Ridge Spill #2400692 PIN H7411		Project # 48027807	LCMS_PPCP_NEG - Sucralose & Ace-K	
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/oil, BT=tissue, AS=sp)	Preservation Code:	N	H
Dup	7/8/24		G	Water		X	3 1
MW-1/27'		11:08		Water		X	3 1
MW-2/15'		1:14 pm		Water		X	3 1
MW-2/15' MS		1:14		Water		X	3 1
MW-2/15' MSD		1:14		Water		X	3 1

Barcode: 480-221475 Chain of Custody

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) **EDD**

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Michaela Cochran
 Relinquished by: Tim Kneal Meyer
 Relinquished by: _____

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:

Received by: <u>JF</u>	Date/Time: 7-8-24 16:34	Company: <u>EFEC</u>
Received by: <u>Michaela Cochran</u>	Date/Time: 7/10/24 16:30	Company: <u>EFEC</u>
Received by: _____	Date/Time: _____	Company: _____

Cooler Temperature(s) °C and Other Remarks: 47# 17CE

Ver: 04/02/2024



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

Client EDR Buffalo Site Name _____ Cooler unpacked by: MALISSA LOAR
 Cooler Received on 7-13-24 Opened on 7-13-24

FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____
 Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 72 Foam Box Client Cooler Box Other _____
 Packing material used Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT Water 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
 -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)
 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 VOA's on the COC? Yes No
 15 Were air bubbles >6 mm in any VOA vials? Larger than this. 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

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

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/L of number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen _____

- 1
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- 8
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- 14
- 15

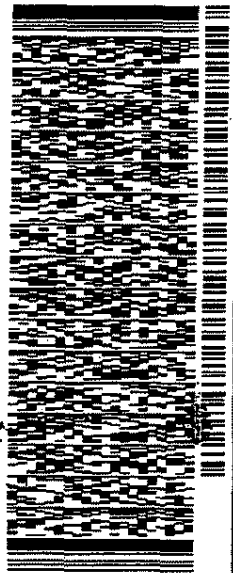
SHIPPER SUPPLY
 EUROFINS ENVIRONMENT TESTING
 10 HAZELWOOD DRIVE
 BUFFALO, NY 142222223
 UNITED STATES US

McLure 11 23 23 48
 CAD 0759273/CHE3808
 DUNS 26X15X14 IN
 BILL SENDER

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

BARBERTON OH 442033543

(800) 487-8988
 REF: BARBERTON



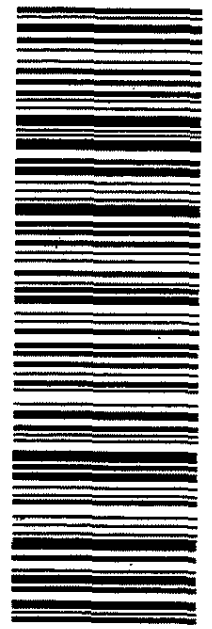
MPS# 7117 9321 7081
 0263
 Mat# 7117 9321 7070

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

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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