

October 18, 2024

Patrick Montuori
HRP Associates - NY
1 Fairchild Square, Suite 110
Clifton Park, NY 12065

Project Location: 321-333 S. Main street, Gloversville, NY
Client Job Number:
Project Number: GLO8016.GW
Laboratory Work Order Number: 24I4212

Enclosed are results of analyses for samples as received by the laboratory on September 27, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Theresa L. Ferrentino
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332HRP Associates - NY
1 Fairchild Square, Suite 110
Clifton Park, NY 12065
ATTN: Patrick Montuori

REPORT DATE: 10/18/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: GLO8016.GW

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24I4212

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 321-333 S. Main streer=t, Gloversville, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Soil-24-PFAS	24I4212-01	Soil		Draft Method 1633 SM 2540G	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Draft Method 1633**Qualifications:**

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:**D9-NEtFOSE**

S112435-CCB5

N-ethylperfluorooctanesulfonamidoethanol (NEtFO)S112435-CCB5

PF-17C

Extracted internal standard is outside of control limits. Analyte is a known difficult compound.

Analyte & Samples(s) Qualified:**D3-NMeFOSA**

B389424-BLK1, B389424-MRL1

D5-NEtFOSA

B389424-BLK1, B389424-MRL1

D9-NEtFOSEB389424-BLK1

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**13C5-PFPeA**

S112435-CCV5

13C8-PFOA

24I4212-01[Soil-24-PFAS]

3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTC)

S112435-CCV5

Perfluoro-3-methoxypropanoic acid (PFMPA)

S112435-CCV5

Perfluoro-4-methoxybutanoic acid (PFMBA)

S112435-CCV5

Perfluorooctanoic acid (PFOA)

24I4212-01[Soil-24-PFAS]

Perfluoropentanoic acid (PFPeA)

S112435-CCV5

SM 2540G**Qualifications:**

H-06

Sample was extracted past the recommended holding time.

Analyte & Samples(s) Qualified:**% Solids**

24I4212-01[Soil-24-PFAS]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 321-333 S. Main street, Glovers

Sample Description:

Work Order: 2414212

Date Received: 9/27/2024

Field Sample #: Soil-24-PFAS

Sampled: 9/26/2024 15:40

Sample ID: 2414212-01

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg dry	1	S-29	Draft Method 1633	10/16/24	10/18/24 0:36	AMS
Perfluorooctanesulfonic acid (PFOS)	0.74	0.20	µg/kg dry	1		Draft Method 1633	10/16/24	10/18/24 0:36	AMS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
13C8-PFOA	56.6	*	60-140		S-29			10/18/24 0:36	
13C8-PFOS	58.1		45-140					10/18/24 0:36	

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Project Location: 321-333 S. Main streer=t, Glovers

Sample Description:

Work Order: 24I4212

Date Received: 9/27/2024

Sampled: 9/26/2024 15:40

Field Sample #: Soil-24-PFAS

Sample ID: 24I4212-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)									
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1	H-06	SM 2540G	10/8/24	10/8/24 12:45	MLR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method:**Draft Method 1633 **Analytical Method:**Draft Method 1633

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24I4212-01 [Soil-24-PFAS]	B389424	6.07	5.00	10/16/24

Prep Method:% Solids **Analytical Method:**SM 2540G

Lab Number [Field ID]	Batch	Date
24I4212-01 [Soil-24-PFAS]	B388661	10/08/24

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B389424 - Draft Method 1633										
Blank (B389424-BLK1)				Prepared: 10/16/24 Analyzed: 10/17/24						
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet							
Surrogate: 13C4-PFBA	9.50		µg/kg wet	9.923		95.7	10-130			
Surrogate: 13C5-PFPeA	5.46		µg/kg wet	4.961		110	35-150			
Surrogate: 13C5-PFHxA	2.29		µg/kg wet	2.481		92.3	55-150			
Surrogate: 13C4-PFHpA	2.30		µg/kg wet	2.481		92.7	55-150			
Surrogate: 13C8-PFOA	2.36		µg/kg wet	2.481		95.2	60-140			
Surrogate: 13C9-PFNA	1.18		µg/kg wet	1.240		94.9	55-140			
Surrogate: 13C6-PFDA	1.21		µg/kg wet	1.240		97.8	50-140			
Surrogate: 13C7-PFUnA	1.27		µg/kg wet	1.240		102	30-140			
Surrogate: 13C2-PFDoA	1.09		µg/kg wet	1.240		87.6	10-150			
Surrogate: 13C2-PFTeDA	0.750		µg/kg wet	1.240		60.4	10-130			
Surrogate: 13C3-PFBS	2.41		µg/kg wet	2.481		97.3	55-150			
Surrogate: 13C3-PFHxS	2.49		µg/kg wet	2.481		100	55-150			
Surrogate: 13C8-PFOS	2.37		µg/kg wet	2.481		95.6	45-140			
Surrogate: 13C2-4:2FTS	4.69		µg/kg wet	4.961		94.5	60-200			
Surrogate: 13C2-6:2FTS	4.65		µg/kg wet	4.961		93.7	60-200			
Surrogate: 13C2-8:2FTS	4.63		µg/kg wet	4.961		93.3	50-200			
Surrogate: 13C8-PFOSA	2.21		µg/kg wet	2.481		89.2	30-130			
Surrogate: D3-NMeFOSA	0.0218		µg/kg wet	2.481		0.878 *	15-130			PF-17C
Surrogate: D5-NEtFOSA	0.00258		µg/kg wet	2.481		0.104 *	10-130			PF-17C
Surrogate: D3-NMeFOSAA	4.75		µg/kg wet	4.961		95.7	45-200			
Surrogate: D5-NEtFOSAA	4.74		µg/kg wet	4.961		95.4	10-200			
Surrogate: D7-NMeFOSE	2.64		µg/kg wet	24.81		10.6	10-150			
Surrogate: D9-NEtFOSE	1.38		µg/kg wet	24.81		5.58 *	10-150			PF-17C
Surrogate: 13C3-HFPO-DA	8.89		µg/kg wet	9.923		89.6	25-160			
LCS (B389424-BS1)				Prepared: 10/16/24 Analyzed: 10/17/24						
Perfluorooctanoic acid (PFOA)	2.31	0.19	µg/kg wet	2.326		99.1	52-161			
Perfluorooctanesulfonic acid (PFOS)	2.17	0.19	µg/kg wet	2.159		100	58-149			
Surrogate: 13C4-PFBA	6.75		µg/kg wet	9.694		69.6	10-130			
Surrogate: 13C5-PFPeA	3.88		µg/kg wet	4.847		80.0	35-150			
Surrogate: 13C5-PFHxA	1.59		µg/kg wet	2.423		65.4	55-150			
Surrogate: 13C4-PFHpA	1.56		µg/kg wet	2.423		64.5	55-150			
Surrogate: 13C8-PFOA	1.67		µg/kg wet	2.423		68.9	60-140			
Surrogate: 13C9-PFNA	0.851		µg/kg wet	1.212		70.2	55-140			
Surrogate: 13C6-PFDA	0.832		µg/kg wet	1.212		68.6	50-140			
Surrogate: 13C7-PFUnA	0.834		µg/kg wet	1.212		68.8	30-140			
Surrogate: 13C2-PFDoA	0.767		µg/kg wet	1.212		63.3	10-150			
Surrogate: 13C2-PFTeDA	0.681		µg/kg wet	1.212		56.2	10-130			
Surrogate: 13C3-PFBS	1.62		µg/kg wet	2.423		66.9	55-150			
Surrogate: 13C3-PFHxS	1.71		µg/kg wet	2.423		70.4	55-150			
Surrogate: 13C8-PFOS	1.69		µg/kg wet	2.423		69.6	45-140			
Surrogate: 13C2-4:2FTS	3.35		µg/kg wet	4.847		69.2	60-200			
Surrogate: 13C2-6:2FTS	3.37		µg/kg wet	4.847		69.5	60-200			
Surrogate: 13C2-8:2FTS	3.22		µg/kg wet	4.847		66.3	50-200			
Surrogate: 13C8-PFOSA	1.47		µg/kg wet	2.423		60.8	30-130			
Surrogate: D3-NMeFOSA	0.732		µg/kg wet	2.423		30.2	15-130			
Surrogate: D5-NEtFOSA	0.457		µg/kg wet	2.423		18.8	10-130			
Surrogate: D3-NMeFOSAA	3.27		µg/kg wet	4.847		67.5	45-200			
Surrogate: D5-NEtFOSAA	3.45		µg/kg wet	4.847		71.2	10-200			
Surrogate: D7-NMeFOSE	10.9		µg/kg wet	24.23		45.0	10-150			
Surrogate: D9-NEtFOSE	10.1		µg/kg wet	24.23		41.8	10-150			

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QUALITY CONTROL
Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B389424 - Draft Method 1633										
LCS (B389424-BS1)				Prepared: 10/16/24 Analyzed: 10/17/24						
Surrogate: 13C3-HFPO-DA	6.34		µg/kg wet	9.694		65.4	25-160			
MRL Check (B389424-MRL1)				Prepared: 10/16/24 Analyzed: 10/17/24						
Perfluorooctanoic acid (PFOA)	0.191	0.19	µg/kg wet	0.1931		98.7	57-161			
Perfluorooctanesulfonic acid (PFOS)	0.214	0.19	µg/kg wet	0.1792		119	43-162			
Surrogate: 13C4-PFBA	7.92		µg/kg wet	9.654		82.0	10-130			
Surrogate: 13C5-PFPeA	4.54		µg/kg wet	4.827		94.0	35-150			
Surrogate: 13C5-PFHxA	1.88		µg/kg wet	2.414		78.0	55-150			
Surrogate: 13C4-PFHpA	1.87		µg/kg wet	2.414		77.4	55-150			
Surrogate: 13C8-PFOA	2.02		µg/kg wet	2.414		83.6	60-140			
Surrogate: 13C9-PFNA	0.979		µg/kg wet	1.207		81.1	55-140			
Surrogate: 13C6-PFDA	0.957		µg/kg wet	1.207		79.3	50-140			
Surrogate: 13C7-PFUnA	0.990		µg/kg wet	1.207		82.1	30-140			
Surrogate: 13C2-PFDoA	0.870		µg/kg wet	1.207		72.1	10-150			
Surrogate: 13C2-PFTeDA	0.718		µg/kg wet	1.207		59.5	10-130			
Surrogate: 13C3-PFBS	1.89		µg/kg wet	2.414		78.2	55-150			
Surrogate: 13C3-PFHxS	2.01		µg/kg wet	2.414		83.1	55-150			
Surrogate: 13C8-PFOS	2.00		µg/kg wet	2.414		82.9	45-140			
Surrogate: 13C2-4:2FTS	3.90		µg/kg wet	4.827		80.8	60-200			
Surrogate: 13C2-6:2FTS	3.77		µg/kg wet	4.827		78.0	60-200			
Surrogate: 13C2-8:2FTS	3.76		µg/kg wet	4.827		77.9	50-200			
Surrogate: 13C8-PFOSA	1.84		µg/kg wet	2.414		76.3	30-130			
Surrogate: D3-NMeFOSA	0.348		µg/kg wet	2.414		14.4	* 15-130			PF-17C
Surrogate: D5-NEtFOSA	0.107		µg/kg wet	2.414		4.41	* 10-130			PF-17C
Surrogate: D3-NMeFOSAA	3.91		µg/kg wet	4.827		80.9	45-200			
Surrogate: D5-NEtFOSAA	4.08		µg/kg wet	4.827		84.6	10-200			
Surrogate: D7-NMeFOSE	10.3		µg/kg wet	24.14		42.5	10-150			
Surrogate: D9-NEtFOSE	8.60		µg/kg wet	24.14		35.6	10-150			
Surrogate: 13C3-HFPO-DA	7.27		µg/kg wet	9.654		75.3	25-160			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-06	Sample was extracted past the recommended holding time.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-17C	Extracted internal standard is outside of control limits. Analyte is a known difficult compound.
S-29	Extracted Internal Standard is outside of control limits.

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CERTIFICATIONS**Certified Analyses included in this Report**

Analyte	Certifications
<i>Draft Method 1633 in Soil</i>	
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
<i>Draft Method 1633 in Water</i>	
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2025
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2025

	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing
– Using Acceptance Policy) Any False statement will be
brought to the attention of the Client – True or False

Client FIRE ASSOCIATES
 Project Former Independence Battery
 MCP/RCP Required NA
 Deliverable Package Requirement NA
 Location 321-333 S. Main Street
 PWSID# (When Applicable) NA
 Arrival Method:
 Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐
 Received By / Date / Time Christopher merchant 6/12/24 1435
 Back-Sheet By / Date / Time LA 9/13/24 1338
 Temperature Method IR # 6
 WV samples: Yes (see note*) ☒ No (follow normal procedure) ☐
 Temp V < 6° C Actual Temperature 58
 Rush Samples: Yes ☒ No ☐ Notify ☐
 Short Hold: Yes / No ☒ Notify ☐

	True	False
Received on Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Received in Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Custody Seal: DATE <u>6/10/24</u> TIME <u>1435</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Splitting Samples Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MS/MSD	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lab to Filters	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client <input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/>	Sampler Name <input checked="" type="checkbox"/>
Project <input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/>	Collection Date/Time <input checked="" type="checkbox"/>
All Samples Proper pH: <u>N/A</u> <input type="checkbox"/> <input type="checkbox"/>		

Notes regarding Samples/COC outside of SOP:

Additional Container Notes

*Note: West Virginia requires all samples to have their
temperature taken. Note any outliers.

	DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist
	Effective Date: 06/11/2024

	Sample	Soils Jars				Ambers				Plastics				VOA Vials				Other / Fill in			
		(Circle Amb/Clear)				1 Liter				250mL				100mL				1 Liter			
1	16oz Amb/Clear																				
2	8oz Amb/Clear																				
3	4oz Amb/Clear																				
4	2oz Amb/Clear																				
5	Unpreserved																				
6	HCL																				
7	Sulfuric																				
8	Sulfuric																				
9	Phosphoric																				
10	HCl																				
11	Unpreserved																				
12	Unpreserved																				
13	Sulfuric																				
14	Unpreserved																				
15	Sulfuric																				
16	Unpreserved																				
17	Unpreserved																				
18	Sulfuric																				
19	Unpreserved																				
20	Unpreserved																				