

DATA USABILITY SUMMARY REPORT 5 SCOBIE DRIVE, NEWBURGH, NEW YORK

Client: C.T. Male Associates, Latham, New York
SDG: L2043933
Laboratory: Alpha Analytical, Westborough, Massachusetts
Site: 5 Scobie Drive, Newburgh, New York
Date: January 19, 2024

EDS ID	Client ID	Laboratory ID	Matrix
1*	PFAS-01	L2043933-01	Soil
2*	PFAS-02	L2043933-02	Soil
3*	PFAS-03	L2043933-03	Soil
4*	PFAS-04	L2043933-04	Soil
5*	PFAS-05	L2043933-05	Soil
6	PFAS-SS-01	L2043933-06	Soil
7	PFAS-SS-02	L2043933-07	Soil
8	PFAS-SS-03	L2043933-08	Soil
8MS	PFAS-SS-03MS	L2043933-08MS	Soil
8MSD	PFAS-SS-03MSD	L2043933-08MSD	Soil
9	FD01_201013	L2043933-09	Soil
10	EB01_201013	L2043933-10	Water
11	FB01_201013	L2043933-11	Water
12	LTB01_201013	L2043933-12	Water

* - Includes SPLP PFAS

A Data Usability Summary Review was performed on the analytical data for nine soil samples, one aqueous equipment blank sample, one aqueous field blank sample, and on aqueous trip blank sample collected on October 12-13, 2020 by CT Male at the 5 Scobie Drive site in Newburgh, New York. The samples were analyzed under the USEPA Method Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis

PFAS
SPLP PFAS

Method References

USEPA Method 537
USEPA Method 537

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods, the NYSDEC Data Review and Validation Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;

- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Holding times and sample preservation
- Liquid Chromatography/Mass Spectrometry (LC/MS) Tuning
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Internal standard area and retention time summary forms
- Target Compound Identification
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS/SPLP PFAS)

Holding Times

- All samples were extracted within 14 days for water samples and analyzed within 28 days.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD), %R and/or coefficient of determination criteria were met.

Continuing Calibration

- All percent recovery (%R) criteria were met.

Method Blank

- The method blanks were free of contamination.

Field QC Blank

- The following table lists field QC samples with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Blank ID	Compound	Conc. ng/L	Qualifier	Affected Samples
EB01_201013	PFHxA	0.369	U	1, 3-9
FB01_201013	PFHxA	0.337	None	See EB
LTB01_201013	PFHxA	0.314	None	See EB

Surrogate Spike Recoveries

- The following table presents samples that exhibited surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

PFAS			
EDS Sample ID	Surrogate	%R	Qualifier
1	d5-NEtFOSAA	187%	J - Associated Compound
	2 Surrogates	High	None - Sample ND
2	2 Surrogates	High	None - Sample ND

PFAS			
EDS Sample ID	Surrogate	%R	Qualifier
4	M2-8:2FTS	233%	None - Sample ND
	d5-NEtFOSAA	151%	J - Associated Compound
5	MPFBA	41%	J - Associated Compound
	M5PFPeA	47%	
	M3PFBS	45%	UJ - Associated Compound
	M5PFHxA	30%	
	M4PFHpA	36%	J - Associated Compound
	M3PFHxS	42%	
	M8PFOA	42%	
	M9PFNA	49%	UJ - Associated Compound
	M8PFOS	57%	J - Associated Compound
	M6PFDA	43%	UJ - Associated Compound
	d3-NMeFOSAA	10%	
	M7-PFUDA	42%	
	d5-NEtFOSAA	21%	J - Associated Compound
	MPFDoA	43%	UJ - Associated Compound

SPLP PFAS			
EDS Sample ID	Surrogate	%R	Qualifier
2	2 Surrogates	High	None - Sample ND
5	3 Surrogates	High	None - Sample ND

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier
8	NEtFOSAA	OK/145%/OK	None - Sample ND

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- The ion ratio was outside of QC limits for several compounds and flagged (F) by the laboratory. These results were qualified estimated (J) unless already qualified.

Field Duplicate Sample Precision

- Field duplicate samples are summarized below. The precision was acceptable.

Compound	PFAS-SS-02 ug/kg	FD01_201013 ug/kg	RPD	Qualifier
PFBA	0.640	0.589	8%	None
PFPeA	0.465	0.432	7%	
PFHpA	0.557	0.497	11%	
PFOA	1.76	1.70	3%	
PFNA	0.280	0.314	11%	
PFOS	0.575	0.831	36%	None - <5X RL
PFDA	0.112	0.099	12%	None
PFUnA	ND	0.096	NC	
PFOA/PFOS, total	2.34	2.53	8%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed:

Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 1/22/24

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

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Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-01
Client ID : PFAS-01
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27925
Sample Amount : 4.2 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/12/20 17:45
Date Received : 10/13/20
Date Analyzed : 10/22/20 18:35
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 33
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.46	0.067	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.46	0.135	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.46	0.114	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.205	1.46	0.154	✓ U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.46	0.132	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	0.486	1.46	0.177	J
335-67-1	Perfluorooctanoic Acid (PFOA)	1.54	1.46	0.123	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.46	0.526	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.46	0.400	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.46	0.220	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	13.7	1.46	0.381	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.46	0.196	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.46	0.841	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.46	0.590	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.46	0.137	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.46	0.448	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.46	0.287	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	16.0	1.46	0.248	



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Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-01
 Client ID : PFAS-01
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27925
 Sample Amount : 4.2 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 17:45
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 18:35
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 33
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.46	0.205	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.46	0.599	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.46	0.158	U
NONE	PFOA/PFOS, Total	15.2	1.46	0.123	

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Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-02
Client ID : PFAS-02
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27926
Sample Amount : 4.09 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/12/20 17:55
Date Received : 10/13/20
Date Analyzed : 10/22/20 18:52
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 80
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	0.615	0.028	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	0.615	0.057	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.615	0.048	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	ND	0.615	0.065	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	0.615	0.056	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.615	0.074	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.373	0.615	0.052	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.615	0.221	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.615	0.168	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	0.615	0.092	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.61	0.615	0.160	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	0.615	0.082	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.615	0.353	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.615	0.248	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	0.615	0.058	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.615	0.188	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.615	0.120	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.15	0.615	0.104	J

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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-02
 Client ID : PFAS-02
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27926
 Sample Amount : 4.09 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 17:55
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 18:52
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 80
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.615	0.086	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	0.615	0.252	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.615	0.066	U
NONE	PFOA/PFOS, Total	1.98	0.615	0.052	J

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Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-03
Client ID : PFAS-03
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27927
Sample Amount : 4.07 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/12/20 18:05
Date Received : 10/13/20
Date Analyzed : 10/22/20 19:08
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 71
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	0.057	0.690	0.031	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.146	0.690	0.064	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.690	0.054	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.197	0.690	0.073	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.233	0.690	0.062	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.690	0.084	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.274	0.690	0.058	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.690	0.248	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.690	0.188	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	0.690	0.104	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	0.445	0.690	0.179	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	0.690	0.093	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.690	0.396	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.690	0.278	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	0.690	0.065	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.690	0.211	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.93	0.690	0.117	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.690	0.097	U



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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-03
 Client ID : PFAS-03
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27927
 Sample Amount : 4.07 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:05
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 19:08
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 71
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
72629-94-8	Perfluorotridecanoic Acid (PFTTrDA)	ND	0.690	0.282	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.690	0.075	U
NONE	PFOA/PFOS, Total	0.719	0.690	0.058	J

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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-03
 Client ID : PFAS-03
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : SCI02_08942
 Sample Amount : 4.07 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:05
 Date Received : 10/13/20
 Date Analyzed : 10/28/20 02:56
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : LCMS04
 GC Column : Acquity UPLC BEH C18
 %Solids : 71
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.690	0.135	U

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Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-04
Client ID : PFAS-04
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27928
Sample Amount : 4.25 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/12/20 18:15
Date Received : 10/13/20
Date Analyzed : 10/22/20 19:25
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 47
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	0.993	0.045	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	0.993	0.091	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.993	0.077	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.117	0.993	0.104	J U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.094	0.993	0.090	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	0.130	0.993	0.120	J
335-67-1	Perfluorooctanoic Acid (PFOA)	0.354	0.993	0.083	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.993	0.356	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.993	0.271	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	0.993	0.149	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	3.29	0.993	0.258	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	0.993	0.133	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.993	0.570	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.993	0.400	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	0.993	0.093	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.993	0.304	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.993	0.194	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	6.49	0.993	0.168	J

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Results Summary **Form 1** **Perfluorinated Alkyl Acids by Isotope Dilution**

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-04
 Client ID : PFAS-04
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27928
 Sample Amount : 4.25 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:15
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 19:25
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 47
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.993	0.139	U
72629-94-8	Perfluorotridecanoic Acid (PFTTrDA)	ND	0.993	0.406	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.993	0.107	U
NONE	PFOA/PFOS, Total	3.64	0.993	0.083	J

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Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client	: C.T. Male Associates	Lab Number	: L2043933
Project Name	: 5 SCOBIE DR	Project Number	: 19.9405
Lab ID	: L2043933-05	Date Collected	: 10/12/20 18:25
Client ID	: PFAS-05	Date Received	: 10/13/20
Sample Location	: NEWBURGH, NY	Date Analyzed	: 10/22/20 19:41
Sample Matrix	: SOIL	Date Extracted	: 10/21/20
Analytical Method	: 134,LCMSMS-ID	Dilution Factor	: 1
Lab File ID	: I27929	Analyst	: JW
Sample Amount	: 4.36 g	Instrument ID	: LCMS01
Extraction Method	: ALPHA 23528	GC Column	: Acquity UPLC BEH C18
Extract Volume	: 2000 uL	%Solids	: 82
GPC Cleanup	: N	Injection Volume	: 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	0.118	0.557	0.025	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.087	0.557	0.051	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.557	0.043	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.141	0.557	0.058	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.110	0.557	0.050	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	0.095	0.557	0.067	J
335-67-1	Perfluorooctanoic Acid (PFOA)	0.657	0.557	0.047	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.557	0.200	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.557	0.152	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	0.557	0.084	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	10.8	0.557	0.145	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	0.557	0.075	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.557	0.320	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.557	0.224	J
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	0.557	0.052	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.557	0.170	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	0.196	0.557	0.109	J
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	1.43	0.557	0.094	J

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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-05
 Client ID : PFAS-05
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27929
 Sample Amount : 4.36 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:25
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 19:41
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 82
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.557	0.078	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	0.557	0.228	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.557	0.060	U <i>VS</i>
NONE	PFOA/PFOS, Total	11.5	0.557	0.047	

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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-06
 Client ID : PFAS-SS-01
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27930
 Sample Amount : 4.18 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:50
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 19:58
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 78
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	0.163	0.615	0.028	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.090	0.615	0.057	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.615	0.048	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.108	0.615	0.065	J U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.080	0.615	0.056	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.615	0.074	U
335-67-1	Perfluorooctanoic Acid (PFOA)	0.346	0.615	0.052	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.615	0.221	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.615	0.168	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.247	0.615	0.092	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.59	0.615	0.160	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.187	0.615	0.082	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.615	0.353	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.615	0.248	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.183	0.615	0.058	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.615	0.188	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.615	0.120	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.615	0.104	U



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Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-06
Client ID : PFAS-SS-01
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27930
Sample Amount : 4.18 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/13/20 14:50
Date Received : 10/13/20
Date Analyzed : 10/22/20 19:58
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 78
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.615	0.086	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	0.615	0.252	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.615	0.066	U
NONE	PFOA/PFOS, Total	1.94	0.615	0.052	J



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Results Summary Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-07
Client ID : PFAS-SS-02
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27931
Sample Amount : 4.37 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/13/20 14:55
Date Received : 10/13/20
Date Analyzed : 10/22/20 20:14
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 73
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	0.640	0.630	0.029	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.465	0.630	0.058	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.630	0.049	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.506	0.630	0.066	J ✓
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.557	0.630	0.057	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.630	0.076	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.76	0.630	0.053	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.630	0.226	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.630	0.172	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.280	0.630	0.095	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	0.575	0.630	0.164	J
335-76-2	Perfluorodecanoic Acid (PFDA)	0.112	0.630	0.085	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.630	0.362	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.630	0.254	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	0.630	0.059	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.630	0.193	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.630	0.106	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.630	0.088	U

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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-07
 Client ID : PFAS-SS-02
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27931
 Sample Amount : 4.37 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:55
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 20:14
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 73
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
72629-94-8	Perfluorotridecanoic Acid (PFTTrDA)	ND	0.630	0.258	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.630	0.068	U
NONE	PFOA/PFOS, Total	2.34	0.630	0.053	J



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Results Summary Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-07
 Client ID : PFAS-SS-02
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : SCI02_08709
 Sample Amount : 4.37 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:55
 Date Received : 10/13/20
 Date Analyzed : 10/26/20 13:46
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : PB
 Instrument ID : LCMS04
 GC Column : Acquity UPLC BEH C18
 %Solids : 73
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.630	0.124	U

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Results Summary Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates Project Name : 5 SCOBIE DR Lab ID : L2043933-08 Client ID : PFAS-SS-03 Sample Location : NEWBURGH, NY Sample Matrix : SOIL Analytical Method : 134,LCMSMS-ID Lab File ID : I27933 Sample Amount : 4.08 g Extraction Method : ALPHA 23528 Extract Volume : 2000 uL GPC Cleanup : N	Lab Number : L2043933 Project Number : 19.9405 Date Collected : 10/13/20 15:00 Date Received : 10/13/20 Date Analyzed : 10/22/20 20:48 Date Extracted : 10/21/20 Dilution Factor : 1 Analyst : JW Instrument ID : LCMS01 GC Column : Acquity UPLC BEH C18 %Solids : 63 Injection Volume : 3 uL
--	---

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	0.920	0.778	0.035	
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.550	0.778	0.072	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.778	0.061	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.508	0.778	0.082	✓ U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.574	0.778	0.070	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.778	0.094	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.69	0.778	0.065	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.778	0.279	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.778	0.212	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.440	0.778	0.117	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	1.37	0.778	0.202	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.245	0.778	0.104	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.778	0.447	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.778	0.314	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.163	0.778	0.073	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.778	0.238	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.778	0.152	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	0.778	0.131	U

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Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-08
Client ID : PFAS-SS-03
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27933
Sample Amount : 4.08 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/13/20 15:00
Date Received : 10/13/20
Date Analyzed : 10/22/20 20:48
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 63
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.778	0.109	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	0.778	0.318	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	0.090	0.778	0.084	J
NONE	PFOA/PFOS, Total	3.06	0.778	0.065	

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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-09
 Client ID : FD01_201013
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27936
 Sample Amount : 4.3 g
 Extraction Method : ALPHA 23528
 Extract Volume : 2000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 00:00
 Date Received : 10/13/20
 Date Analyzed : 10/22/20 21:37
 Date Extracted : 10/21/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : 76
 Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	0.589	0.610	0.028	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.432	0.610	0.056	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	0.610	0.048	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.461	0.610	0.064	J U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.497	0.610	0.055	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	0.610	0.074	U
335-67-1	Perfluorooctanoic Acid (PFOA)	1.70	0.610	0.051	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	0.610	0.219	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	0.610	0.166	U
375-95-1	Perfluorononanoic Acid (PFNA)	0.314	0.610	0.091	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	0.831	0.610	0.158	
335-76-2	Perfluorodecanoic Acid (PFDA)	0.099	0.610	0.082	J
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	0.610	0.350	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	0.610	0.246	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	0.096	0.610	0.057	J
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	0.610	0.186	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEIFOSAA)	ND	0.610	0.103	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	0.610	0.085	U



Mr Vignati

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Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-09
Client ID : FD01_201013
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27936
Sample Amount : 4.3 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/13/20 00:00
Date Received : 10/13/20
Date Analyzed : 10/22/20 21:37
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : 76
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
72629-94-8	Perfluorotridecanoic Acid (PFTTrDA)	ND	0.610	0.249	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	0.610	0.066	U
NONE	PFOA/PFOS, Total	2.53	0.610	0.051	

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Results Summary
Form 1
Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-09
Client ID : FD01_201013
Sample Location : NEWBURGH, NY
Sample Matrix : SOIL
Analytical Method : 134,LCMSMS-ID
Lab File ID : SCI02_08710
Sample Amount : 4.3 g
Extraction Method : ALPHA 23528
Extract Volume : 2000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/13/20 00:00
Date Received : 10/13/20
Date Analyzed : 10/26/20 13:52
Date Extracted : 10/21/20
Dilution Factor : 1
Analyst : PB
Instrument ID : LCMS04
GC Column : Acquity UPLC BEH C18
%Solids : 76
Injection Volume : 3 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	0.610	0.119	U

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Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
Project Name : 5 SCOBIE DR
Lab ID : L2043933-10
Client ID : EB01_201013
Sample Location : NEWBURGH, NY
Sample Matrix : WATER
Analytical Method : 134,LCMSMS-ID
Lab File ID : I27974
Sample Amount : 238.57 g
Extraction Method : ALPHA 23528
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L2043933
Project Number : 19.9405
Date Collected : 10/13/20 14:35
Date Received : 10/13/20
Date Analyzed : 10/23/20 19:33
Date Extracted : 10/22/20
Dilution Factor : 1
Analyst : JW
Instrument ID : LCMS01
GC Column : Acquity UPLC BEH C18
%Solids : N/A
Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	2.10	0.428	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	2.10	0.415	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	2.10	0.249	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.369	2.10	0.344	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	2.10	0.236	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	2.10	0.394	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	2.10	0.247	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	2.10	1.40	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.10	0.721	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	2.10	0.327	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	2.10	0.528	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	2.10	0.318	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.10	1.27	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	2.10	0.679	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.10	0.272	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.10	1.03	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.10	0.608	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEFOSAA)	ND	2.10	0.842	U



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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-10
 Client ID : EB01_201013
 Sample Location : NEWBURGH, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I27974
 Sample Amount : 238.57 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:35
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 19:33
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.10	0.390	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	2.10	0.343	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.10	0.260	U
NONE	PFOA/PFOS, Total	ND	2.10	0.247	U



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Results Summary Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-11
 Client ID : FB01_201013
 Sample Location : NEWBURGH, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I28037
 Sample Amount : 264.1 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:30
 Date Received : 10/13/20
 Date Analyzed : 10/27/20 03:24
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : RS
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.89	0.386	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.89	0.375	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.89	0.225	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.337	1.89	0.310	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.89	0.213	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.89	0.356	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.89	0.223	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.89	1.26	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.89	0.651	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.89	0.295	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.89	0.477	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.89	0.288	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.89	1.15	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.89	0.613	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.89	0.246	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.89	0.928	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.89	0.549	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.89	0.761	U



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Results Summary Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-11
 Client ID : FB01_201013
 Sample Location : NEWBURGH, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I28037
 Sample Amount : 264.1 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:30
 Date Received : 10/13/20
 Date Analyzed : 10/27/20 03:24
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : RS
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.89	0.352	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.89	0.310	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.89	0.235	U
NONE	PFOA/PFOS, Total	ND	1.89	0.223	U

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Results Summary Form 1 Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-12
 Client ID : LTB01_201013
 Sample Location : NEWBURGH, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I28038
 Sample Amount : 264.12 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:30
 Date Received : 10/13/20
 Date Analyzed : 10/27/20 03:41
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : RS
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	1.89	0.386	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	1.89	0.375	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.89	0.225	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.314	1.89	0.310	JF
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	1.89	0.213	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	ND	1.89	0.356	U
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	1.89	0.223	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.89	1.26	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	1.89	0.651	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	1.89	0.295	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	ND	1.89	0.477	U
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.89	0.288	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.89	1.15	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	1.89	0.613	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.89	0.246	U
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.89	0.928	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	1.89	0.549	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	1.89	0.761	U



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Results Summary

Form 1

Perfluorinated Alkyl Acids by Isotope Dilution

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-12
 Client ID : LTB01_201013
 Sample Location : NEWBURGH, NY
 Sample Matrix : WATER
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I28038
 Sample Amount : 264.12 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/13/20 14:30
 Date Received : 10/13/20
 Date Analyzed : 10/27/20 03:41
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : RS
 Instrument ID : LCMS01
 GC Column : Acquity UPLC BEH C18
 %Solids : N/A
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.89	0.352	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.89	0.310	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.89	0.235	U
NONE	PFOA/PFOS, Total	ND	1.89	0.223	U



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Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-01
 Client ID : PFAS-01
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30941
 Sample Amount : 10 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 17:45
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 16:38
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 33
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	50.0	10.2	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	50.0	9.90	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	50.0	5.95	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	50.0	11.3	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	10.5	50.0	8.20	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	50.0	6.13	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	50.0	5.63	U
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	10.7	50.0	9.40	JF J
335-67-1	Perfluorooctanoic Acid (PFOA)	22.0	50.0	5.90	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	50.0	33.3	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	50.0	17.2	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	50.0	7.80	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	35.0	50.0	12.6	JF J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	50.0	7.60	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	50.0	30.3	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	50.0	28.0	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	50.0	16.2	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	50.0	6.50	U

Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-01
 Client ID : PFAS-01
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30941
 Sample Amount : 10 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 17:45
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 16:38
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 33
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	50.0	24.5	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	50.0	14.5	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	50.0	20.1	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	50.0	9.30	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	50.0	8.18	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	50.0	6.20	U

Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-02
 Client ID : PFAS-02
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30942
 Sample Amount : 277.01 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 17:55
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 16:54
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 80
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	1.08	1.80	0.368	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	0.624	1.80	0.357	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	1.80	0.215	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	1.80	0.408	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	0.697	1.80	0.296	JF
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.397	1.80	0.221	JF
375-85-9	Perfluoroheptanoic Acid (PFHpA)	0.772	1.80	0.203	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	1.45	1.80	0.339	J
335-67-1	Perfluorooctanoic Acid (PFOA)	10.0	1.80	0.213	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	1.80	1.20	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.30	1.80	0.621	JF
375-95-1	Perfluorononanoic Acid (PFNA)	0.361	1.80	0.282	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	33.3	1.80	0.455	
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	1.80	0.274	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	1.80	1.09	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	1.80	1.01	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoaceti c Acid (NMeFOSAA)	ND	1.80	0.585	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	1.80	0.235	U

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Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-02
 Client ID : PFAS-02
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30942
 Sample Amount : 277.01 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 17:55
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 16:54
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 80
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	1.80	0.884	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	2.74	1.80	0.523	F J
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	4.17	1.80	0.726	F J
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	1.80	0.336	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	1.80	0.295	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	1.80	0.224	U



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Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-03
 Client ID : PFAS-03
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30943
 Sample Amount : 227.67 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:05
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 17:11
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 71
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	0.949	2.20	0.448	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	1.81	2.20	0.435	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	0.457	2.20	0.261	J
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	2.20	0.496	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	1.84	2.20	0.360	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	0.940	2.20	0.269	JF J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.20	2.20	0.247	
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	1.32	2.20	0.413	JF J
335-67-1	Perfluorooctanoic Acid (PFOA)	4.07	2.20	0.259	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	2.20	1.46	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	2.20	0.755	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	2.20	0.343	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	5.67	2.20	0.553	JF J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	2.20	0.334	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	2.20	1.33	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	2.20	1.23	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	2.20	0.712	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	2.20	0.286	U

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Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-03
 Client ID : PFAS-03
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30943
 Sample Amount : 227.67 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:05
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 17:11
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 71
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	2.20	1.08	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	2.20	0.637	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2.38	2.20	0.883	✓ J
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	2.20	0.408	U
72629-94-8	Perfluorotridecanoic Acid (PFTTrDA)	ND	2.20	0.359	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	2.20	0.272	U

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Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-04
 Client ID : PFAS-04
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30944
 Sample Amount : 50 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:15
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 17:27
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 47
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	ND	10.0	2.04	U
2706-90-3	Perfluoropentanoic Acid (PFPeA)	ND	10.0	1.98	U
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	2.44	10.0	1.19	J
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	10.0	2.26	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	2.48	10.0	1.64	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	1.92	10.0	1.23	J
375-85-9	Perfluoroheptanoic Acid (PFHpA)	1.76	10.0	1.13	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	3.08	10.0	1.88	J
335-67-1	Perfluorooctanoic Acid (PFOA)	4.90	10.0	1.18	J
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	10.0	6.66	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	10.0	3.44	U
375-95-1	Perfluorononanoic Acid (PFNA)	ND	10.0	1.56	U
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	26.2	10.0	2.52	F
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	10.0	1.52	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	10.0	6.06	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	10.0	5.60	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	10.0	3.24	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	10.0	1.30	U

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Results Summary **Form 1** **SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312**

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-04
 Client ID : PFAS-04
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30944
 Sample Amount : 50 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:15
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 17:27
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 47
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	10.0	4.90	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	10.0	2.90	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEFOSAA)	22.2	10.0	4.02	F J
307-55-1	Perfluorododecanolc Acid (PFDoA)	ND	10.0	1.86	U
72629-94-8	Perfluorotridecanolc Acid (PFTrDA)	ND	10.0	1.64	U
376-06-7	Perfluorotetradecanolc Acid (PFTA)	ND	10.0	1.24	U

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Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-05
 Client ID : PFAS-05
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30945
 Sample Amount : 50 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:25
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 17:44
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 82
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
375-22-4	Perfluorobutanoic Acid (PFBA)	5.86	10.0	2.04	J
2706-90-3	Perfluoropentanoic Acid (PFPeA)	4.60	10.0	1.98	J
375-73-5	Perfluorobutanesulfonic Acid (PFBS)	ND	10.0	1.19	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	10.0	2.26	U
307-24-4	Perfluorohexanoic Acid (PFHxA)	5.90	10.0	1.64	J
2706-91-4	Perfluoropentanesulfonic Acid (PFPeS)	ND	10.0	1.23	U
375-85-9	Perfluoroheptanoic Acid (PFHpA)	5.54	10.0	1.13	J
355-46-4	Perfluorohexanesulfonic Acid (PFHxS)	12.5	10.0	1.88	J
335-67-1	Perfluorooctanoic Acid (PFOA)	27.5	10.0	1.18	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	10.0	6.66	U
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND	10.0	3.44	U
375-95-1	Perfluorononanoic Acid (PFNA)	2.32	10.0	1.56	J
1763-23-1	Perfluorooctanesulfonic Acid (PFOS)	529	10.0	2.52	J
335-76-2	Perfluorodecanoic Acid (PFDA)	ND	10.0	1.52	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	10.0	6.06	U
68259-12-1	Perfluorononanesulfonic Acid (PFNS)	ND	10.0	5.60	U
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	10.0	3.24	U
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND	10.0	1.30	U

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Results Summary Form 1

SPLP Perfluorinated Alkyl Acids by Isotope Dilution & EPA 1312

Client : C.T. Male Associates
 Project Name : 5 SCOBIE DR
 Lab ID : L2043933-05
 Client ID : PFAS-05
 Sample Location : NEWBURGH, NY
 Sample Matrix : SOIL
 Analytical Method : 134,LCMSMS-ID
 Lab File ID : I30945
 Sample Amount : 50 g
 Extraction Method : ALPHA 23528
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2043933
 Project Number : 19.9405
 Date Collected : 10/12/20 18:25
 Date Received : 10/13/20
 Date Analyzed : 10/23/20 17:44
 Date Extracted : 10/22/20
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : LCMS02
 GC Column : Acquity UPLC BEH C18
 %Solids : 82
 Injection Volume : 3 uL

CAS NO.	Parameter	ng/l			Qualifier
		Results	RL	MDL	
335-77-3	Perfluorodecanesulfonic Acid (PFDS)	ND	10.0	4.90	U
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND	10.0	2.90	U
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	10.0	4.02	U
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND	10.0	1.86	U
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND	10.0	1.64	U
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND	10.0	1.24	U

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