

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 375965

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 11/15/2021 15:01

Sample: 1287114 1553 S Oneida Collected: 11/02/21 Analyzed: 11/09/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[1.25]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[1.27]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	[1.98]	ng/L	1	0.66	2.2		J
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.85]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	61.6%		1				SR S
C13-HFPODA (SURR)	59.8%		1				SR S
C13-PFDA (SURR)	80.5%		1				S
d5-NEtFOSAA (SURR)	89.9%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

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SR = Surrogate recovery was outside QC limits.

C13-HFPODA recovered below QC limits.

C13-PFHxA recovered below QC limits.

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Sample: 1287115 1549 S Oneida Collected: 11/02/21 Analyzed: 11/09/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[3.45]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	2.98	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	3.49	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[1.81]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	57.4%		1				SR S
C13-HFPODA (SURR)	60.3%		1				SR S
C13-PFDA (SURR)	79.9%		1				S
d5-NEtFOSAA (SURR)	90%		1				S

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C13-HFPODA recovered below QC limits.

C13-PFHxA recovered below QC limits.

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Sample: 1287117 3401 Fox Ranch Rd Collected: 11/02/21 Analyzed: 11/09/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[1.59]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[1.63]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	3.46	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	[1.44]	ng/L	1	0.51	1.7		J
Perfluorohexanesulfonic acid (PFHxS)	17.4	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.91]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	62.9%		1				SR S
C13-HFPODA (SURR)	64.4%		1				SR S
C13-PFDA (SURR)	85.4%		1				S
d5-NEtFOSAA (SURR)	98.4%		1				S

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C13-HFPODA recovered below QC limits.

C13-PFHxA recovered below QC limits.

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Project Title: Template: SCI2537.1 Printed: 11/15/2021 15:01

Sample: 1287118 3400 Fox Ranch Rd Collected: 11/02/21 Analyzed: 11/09/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	ND	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	ND	ng/L	1	0.70	2.3		
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	70.4%		1				S
C13-HFPODA (SURR)	77.1%		1				S
C13-PFDA (SURR)	78.9%		1				S
d5-NEtFOSAA (SURR)	86.6%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

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