

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-213498-1
Client Project/Site: PFAS Testing

For:

City of Eau Claire
1000 Ferry Street
Eau Claire, Wisconsin 54703

Attn: Ty Fadness

Jodie Bracken

Authorized for release by:
3/18/2022 2:47:38 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Job ID: 500-213498-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-213498-1

Comments

No additional comments.

Receipt

The samples were received on 3/10/2022 3:53 PM. 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 0.6° C.

LCMS

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-572005.

Method: PFC_IDA_WI

Matrix: Water

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

Detection Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 23

Lab Sample ID: 500-213498-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.2	J	4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	9.4		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.9		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.5	J	1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.1		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	4.2		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	22		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.31	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WW Outfall

Lab Sample ID: 500-213498-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.9		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.7		1.7	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.0		1.7	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.8		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.3		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	4.4		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	46		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.1	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	20		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 6

Lab Sample ID: 500-213498-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.7	J	4.1	1.9	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.4		1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.79	J	1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		1.6	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.23	J	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.9		1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.8		1.6	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	22		1.6	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.34	J	1.6	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.7		1.6	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.1	J	1.6	0.80	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 14

Lab Sample ID: 500-213498-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.6		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.7		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 14 (Continued)

Lab Sample ID: 500-213498-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	2.4		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.25	J	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.8		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.8		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	36		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.70	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	11		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 9

Lab Sample ID: 500-213498-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.3		4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.0		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.7		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.5		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.5		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	4.6		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	43		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.78	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.46	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Sample Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-213498-1	Well 23	Water	03/04/22 09:31	03/10/22 15:53
500-213498-2	WW Outfall	Water	03/09/22 14:35	03/10/22 15:53
500-213498-3	Well 6	Water	03/09/22 14:39	03/10/22 15:53
500-213498-4	Well 14	Water	03/09/22 14:46	03/10/22 15:53
500-213498-5	Well 9	Water	03/09/22 14:53	03/10/22 15:53

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Client Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 23

Lab Sample ID: 500-213498-1

Date Collected: 03/04/22 09:31

Matrix: Water

Date Received: 03/10/22 15:53

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.2	J	4.3	2.1	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluoropentanoic acid (PFPeA)	9.4		1.7	0.42	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorohexanoic acid (PFHxA)	7.9		1.7	0.50	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.22	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorooctanoic acid (PFOA)	1.5	J	1.7	0.74	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.77		1.7	0.77	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorobutanesulfonic acid (PFBS)	3.1		1.7	0.17	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluoropentanesulfonic acid (PFPeS)	4.2		1.7	0.26	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorohexanesulfonic acid (PFHxS)	22		1.7	0.49	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.31	J	1.7	0.16	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorooctanesulfonic acid (PFOS)	4.5		1.7	0.47	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		03/10/22 19:22	03/13/22 03:17	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		03/10/22 19:22	03/13/22 03:17	1
NEtFOSA	<0.75		1.7	0.75	ng/L		03/10/22 19:22	03/13/22 03:17	1
NMeFOSA	<0.37		1.7	0.37	ng/L		03/10/22 19:22	03/13/22 03:17	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		03/10/22 19:22	03/13/22 03:17	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		03/10/22 19:22	03/13/22 03:17	1
NMeFOSE	<1.2		3.5	1.2	ng/L		03/10/22 19:22	03/13/22 03:17	1
NEtFOSE	<0.74		1.7	0.74	ng/L		03/10/22 19:22	03/13/22 03:17	1
4:2 FTS	<0.21		1.7	0.21	ng/L		03/10/22 19:22	03/13/22 03:17	1
6:2 FTS	<2.2		4.3	2.2	ng/L		03/10/22 19:22	03/13/22 03:17	1
8:2 FTS	<0.40		1.7	0.40	ng/L		03/10/22 19:22	03/13/22 03:17	1
10:2 FTS	<0.58		1.7	0.58	ng/L		03/10/22 19:22	03/13/22 03:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		03/10/22 19:22	03/13/22 03:17	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		03/10/22 19:22	03/13/22 03:17	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		03/10/22 19:22	03/13/22 03:17	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		03/10/22 19:22	03/13/22 03:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	95		25 - 150				03/10/22 19:22	03/13/22 03:17	1
13C5 PFPeA	100		25 - 150				03/10/22 19:22	03/13/22 03:17	1
13C2 PFHxA	104		25 - 150				03/10/22 19:22	03/13/22 03:17	1
13C4 PFHpA	103		25 - 150				03/10/22 19:22	03/13/22 03:17	1
13C4 PFOA	102		25 - 150				03/10/22 19:22	03/13/22 03:17	1

Eurofins Chicago

Client Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 23

Lab Sample ID: 500-213498-1

Date Collected: 03/04/22 09:31

Matrix: Water

Date Received: 03/10/22 15:53

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	102		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C2 PFDA	96		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C2 PFUnA	98		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C2 PFDoA	93		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C2 PFTeDA	91		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C2 PFHxDA	91		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C3 PFBS	111		25 - 150	03/10/22 19:22	03/13/22 03:17	1
18O2 PFHxS	98		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C4 PFOS	105		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C8 FOSA	96		10 - 150	03/10/22 19:22	03/13/22 03:17	1
d3-NMeFOSAA	94		25 - 150	03/10/22 19:22	03/13/22 03:17	1
d5-NEtFOSAA	99		25 - 150	03/10/22 19:22	03/13/22 03:17	1
d-N-MeFOSA-M	87		10 - 150	03/10/22 19:22	03/13/22 03:17	1
d-N-EtFOSA-M	83		10 - 150	03/10/22 19:22	03/13/22 03:17	1
d7-N-MeFOSE-M	89		10 - 150	03/10/22 19:22	03/13/22 03:17	1
d9-N-EtFOSE-M	89		10 - 150	03/10/22 19:22	03/13/22 03:17	1
M2-4:2 FTS	92		25 - 150	03/10/22 19:22	03/13/22 03:17	1
M2-6:2 FTS	103		25 - 150	03/10/22 19:22	03/13/22 03:17	1
M2-8:2 FTS	94		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C3 HFPO-DA	96		25 - 150	03/10/22 19:22	03/13/22 03:17	1
13C2 10:2 FTS	103		25 - 150	03/10/22 19:22	03/13/22 03:17	1

Client Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: WW Outfall

Lab Sample ID: 500-213498-2

Date Collected: 03/09/22 14:35

Matrix: Water

Date Received: 03/10/22 15:53

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.9		4.4	2.1	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluoropentanoic acid (PFPeA)	4.7		1.7	0.43	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorohexanoic acid (PFHxA)	5.0		1.7	0.51	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.7	0.22	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorooctanoic acid (PFOA)	3.8		1.7	0.74	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorononanoic acid (PFNA)	<0.24		1.7	0.24	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.7	0.64	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.7	0.78	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.82		1.7	0.82	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorobutanesulfonic acid (PFBS)	4.3		1.7	0.17	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluoropentanesulfonic acid (PFPeS)	4.4		1.7	0.26	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorohexanesulfonic acid (PFHxS)	46		1.7	0.50	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.1	J	1.7	0.17	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorooctanesulfonic acid (PFOS)	20		1.7	0.47	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.7	0.85	ng/L		03/10/22 19:22	03/13/22 03:27	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		03/10/22 19:22	03/13/22 03:27	1
NEtFOSA	<0.76		1.7	0.76	ng/L		03/10/22 19:22	03/13/22 03:27	1
NMeFOSA	<0.38		1.7	0.38	ng/L		03/10/22 19:22	03/13/22 03:27	1
NMeFOSAA	<1.0		4.4	1.0	ng/L		03/10/22 19:22	03/13/22 03:27	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		03/10/22 19:22	03/13/22 03:27	1
NMeFOSE	<1.2		3.5	1.2	ng/L		03/10/22 19:22	03/13/22 03:27	1
NEtFOSE	<0.74		1.7	0.74	ng/L		03/10/22 19:22	03/13/22 03:27	1
4:2 FTS	<0.21		1.7	0.21	ng/L		03/10/22 19:22	03/13/22 03:27	1
6:2 FTS	<2.2		4.4	2.2	ng/L		03/10/22 19:22	03/13/22 03:27	1
8:2 FTS	<0.40		1.7	0.40	ng/L		03/10/22 19:22	03/13/22 03:27	1
10:2 FTS	<0.58		1.7	0.58	ng/L		03/10/22 19:22	03/13/22 03:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		03/10/22 19:22	03/13/22 03:27	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		03/10/22 19:22	03/13/22 03:27	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		03/10/22 19:22	03/13/22 03:27	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		03/10/22 19:22	03/13/22 03:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150				03/10/22 19:22	03/13/22 03:27	1
13C5 PFPeA	102		25 - 150				03/10/22 19:22	03/13/22 03:27	1
13C2 PFHxA	95		25 - 150				03/10/22 19:22	03/13/22 03:27	1
13C4 PFHpA	98		25 - 150				03/10/22 19:22	03/13/22 03:27	1
13C4 PFOA	101		25 - 150				03/10/22 19:22	03/13/22 03:27	1

Eurofins Chicago

Client Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: WW Outfall

Lab Sample ID: 500-213498-2

Date Collected: 03/09/22 14:35

Matrix: Water

Date Received: 03/10/22 15:53

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	105		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C2 PFDA	97		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C2 PFUnA	97		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C2 PFDoA	83		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C2 PFTeDA	84		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C2 PFHxDA	92		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C3 PFBS	106		25 - 150	03/10/22 19:22	03/13/22 03:27	1
18O2 PFHxS	95		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C4 PFOS	98		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C8 FOSA	91		10 - 150	03/10/22 19:22	03/13/22 03:27	1
d3-NMeFOSAA	85		25 - 150	03/10/22 19:22	03/13/22 03:27	1
d5-NEtFOSAA	90		25 - 150	03/10/22 19:22	03/13/22 03:27	1
d-N-MeFOSA-M	75		10 - 150	03/10/22 19:22	03/13/22 03:27	1
d-N-EtFOSA-M	74		10 - 150	03/10/22 19:22	03/13/22 03:27	1
d7-N-MeFOSE-M	80		10 - 150	03/10/22 19:22	03/13/22 03:27	1
d9-N-EtFOSE-M	83		10 - 150	03/10/22 19:22	03/13/22 03:27	1
M2-4:2 FTS	98		25 - 150	03/10/22 19:22	03/13/22 03:27	1
M2-6:2 FTS	99		25 - 150	03/10/22 19:22	03/13/22 03:27	1
M2-8:2 FTS	94		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C3 HFPO-DA	96		25 - 150	03/10/22 19:22	03/13/22 03:27	1
13C2 10:2 FTS	88		25 - 150	03/10/22 19:22	03/13/22 03:27	1

Client Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 6
Date Collected: 03/09/22 14:39
Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-3
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.7	J	4.1	1.9	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluoropentanoic acid (PFPeA)	2.0		1.6	0.40	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorohexanoic acid (PFHxA)	2.4		1.6	0.47	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluoroheptanoic acid (PFHpA)	0.79	J	1.6	0.20	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorooctanoic acid (PFOA)	2.0		1.6	0.69	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorononanoic acid (PFNA)	0.23	J	1.6	0.22	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorodecanoic acid (PFDA)	<0.25		1.6	0.25	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluoroundecanoic acid (PFUnA)	<0.89		1.6	0.89	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorododecanoic acid (PFDoA)	<0.45		1.6	0.45	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.6	1.1	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorotetradecanoic acid (PFTeA)	<0.59		1.6	0.59	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.72		1.6	0.72	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.76		1.6	0.76	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorobutanesulfonic acid (PFBS)	2.9		1.6	0.16	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluoropentanesulfonic acid (PFPeS)	2.8		1.6	0.24	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorohexanesulfonic acid (PFHxS)	22		1.6	0.46	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.34	J	1.6	0.15	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorooctanesulfonic acid (PFOS)	5.7		1.6	0.44	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorononanesulfonic acid (PFNS)	<0.30		1.6	0.30	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorododecanesulfonic acid (PFDoS)	<0.79		1.6	0.79	ng/L		03/10/22 19:22	03/13/22 03:37	1
Perfluorooctanesulfonamide (FOSA)	1.1	J	1.6	0.80	ng/L		03/10/22 19:22	03/13/22 03:37	1
NEtFOSA	<0.71		1.6	0.71	ng/L		03/10/22 19:22	03/13/22 03:37	1
NMeFOSA	<0.35		1.6	0.35	ng/L		03/10/22 19:22	03/13/22 03:37	1
NMeFOSAA	<0.97		4.1	0.97	ng/L		03/10/22 19:22	03/13/22 03:37	1
NEtFOSAA	<1.1		4.1	1.1	ng/L		03/10/22 19:22	03/13/22 03:37	1
NMeFOSE	<1.1		3.2	1.1	ng/L		03/10/22 19:22	03/13/22 03:37	1
NEtFOSE	<0.69		1.6	0.69	ng/L		03/10/22 19:22	03/13/22 03:37	1
4:2 FTS	<0.19		1.6	0.19	ng/L		03/10/22 19:22	03/13/22 03:37	1
6:2 FTS	<2.0		4.1	2.0	ng/L		03/10/22 19:22	03/13/22 03:37	1
8:2 FTS	<0.37		1.6	0.37	ng/L		03/10/22 19:22	03/13/22 03:37	1
10:2 FTS	<0.54		1.6	0.54	ng/L		03/10/22 19:22	03/13/22 03:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.32		1.6	0.32	ng/L		03/10/22 19:22	03/13/22 03:37	1
HFPO-DA (GenX)	<1.2		3.2	1.2	ng/L		03/10/22 19:22	03/13/22 03:37	1
9CI-PF3ONS	<0.19		1.6	0.19	ng/L		03/10/22 19:22	03/13/22 03:37	1
11CI-PF3OUdS	<0.26		1.6	0.26	ng/L		03/10/22 19:22	03/13/22 03:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	85		25 - 150				03/10/22 19:22	03/13/22 03:37	1
13C5 PFPeA	95		25 - 150				03/10/22 19:22	03/13/22 03:37	1
13C2 PFHxA	97		25 - 150				03/10/22 19:22	03/13/22 03:37	1
13C4 PFHpA	98		25 - 150				03/10/22 19:22	03/13/22 03:37	1
13C4 PFOA	96		25 - 150				03/10/22 19:22	03/13/22 03:37	1

Eurofins Chicago

Client Sample Results

Client: City of Eau Claire
 Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 6
Date Collected: 03/09/22 14:39
Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-3
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	95		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C2 PFDA	96		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C2 PFUnA	92		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C2 PFDoA	82		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C2 PFTeDA	79		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C2 PFHxDA	84		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C3 PFBS	103		25 - 150	03/10/22 19:22	03/13/22 03:37	1
18O2 PFHxS	96		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C4 PFOS	102		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C8 FOSA	92		10 - 150	03/10/22 19:22	03/13/22 03:37	1
d3-NMeFOSAA	87		25 - 150	03/10/22 19:22	03/13/22 03:37	1
d5-NEtFOSAA	87		25 - 150	03/10/22 19:22	03/13/22 03:37	1
d-N-MeFOSA-M	72		10 - 150	03/10/22 19:22	03/13/22 03:37	1
d-N-EtFOSA-M	71		10 - 150	03/10/22 19:22	03/13/22 03:37	1
d7-N-MeFOSE-M	77		10 - 150	03/10/22 19:22	03/13/22 03:37	1
d9-N-EtFOSE-M	77		10 - 150	03/10/22 19:22	03/13/22 03:37	1
M2-4:2 FTS	99		25 - 150	03/10/22 19:22	03/13/22 03:37	1
M2-6:2 FTS	96		25 - 150	03/10/22 19:22	03/13/22 03:37	1
M2-8:2 FTS	94		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C3 HFPO-DA	91		25 - 150	03/10/22 19:22	03/13/22 03:37	1
13C2 10:2 FTS	82		25 - 150	03/10/22 19:22	03/13/22 03:37	1

Client Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 14

Lab Sample ID: 500-213498-4

Date Collected: 03/09/22 14:46

Matrix: Water

Date Received: 03/10/22 15:53

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.2		4.3	2.1	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluoropentanoic acid (PFPeA)	3.6		1.7	0.42	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorohexanoic acid (PFHxA)	3.7		1.7	0.50	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.7	0.22	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorooctanoic acid (PFOA)	2.4		1.7	0.74	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorononanoic acid (PFNA)	0.25	J	1.7	0.23	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.77		1.7	0.77	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorobutanesulfonic acid (PFBS)	3.8		1.7	0.17	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluoropentanesulfonic acid (PFPeS)	3.8		1.7	0.26	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorohexanesulfonic acid (PFHxS)	36		1.7	0.49	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.70	J	1.7	0.16	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorooctanesulfonic acid (PFOS)	11		1.7	0.47	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		03/10/22 19:22	03/13/22 03:47	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		03/10/22 19:22	03/13/22 03:47	1
NEtFOSA	<0.75		1.7	0.75	ng/L		03/10/22 19:22	03/13/22 03:47	1
NMeFOSA	<0.37		1.7	0.37	ng/L		03/10/22 19:22	03/13/22 03:47	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		03/10/22 19:22	03/13/22 03:47	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		03/10/22 19:22	03/13/22 03:47	1
NMeFOSE	<1.2		3.5	1.2	ng/L		03/10/22 19:22	03/13/22 03:47	1
NEtFOSE	<0.74		1.7	0.74	ng/L		03/10/22 19:22	03/13/22 03:47	1
4:2 FTS	<0.21		1.7	0.21	ng/L		03/10/22 19:22	03/13/22 03:47	1
6:2 FTS	<2.2		4.3	2.2	ng/L		03/10/22 19:22	03/13/22 03:47	1
8:2 FTS	<0.40		1.7	0.40	ng/L		03/10/22 19:22	03/13/22 03:47	1
10:2 FTS	<0.58		1.7	0.58	ng/L		03/10/22 19:22	03/13/22 03:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		03/10/22 19:22	03/13/22 03:47	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		03/10/22 19:22	03/13/22 03:47	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		03/10/22 19:22	03/13/22 03:47	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		03/10/22 19:22	03/13/22 03:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150				03/10/22 19:22	03/13/22 03:47	1
13C5 PFPeA	98		25 - 150				03/10/22 19:22	03/13/22 03:47	1
13C2 PFHxA	101		25 - 150				03/10/22 19:22	03/13/22 03:47	1
13C4 PFHpA	97		25 - 150				03/10/22 19:22	03/13/22 03:47	1
13C4 PFOA	102		25 - 150				03/10/22 19:22	03/13/22 03:47	1

Eurofins Chicago

Client Sample Results

Client: City of Eau Claire
 Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 14
Date Collected: 03/09/22 14:46
Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	99		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C2 PFDA	95		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C2 PFUnA	89		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C2 PFDoA	84		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C2 PFTeDA	81		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C2 PFHxDA	86		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C3 PFBS	113		25 - 150	03/10/22 19:22	03/13/22 03:47	1
18O2 PFHxS	98		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C4 PFOS	104		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C8 FOSA	97		10 - 150	03/10/22 19:22	03/13/22 03:47	1
d3-NMeFOSAA	90		25 - 150	03/10/22 19:22	03/13/22 03:47	1
d5-NEtFOSAA	93		25 - 150	03/10/22 19:22	03/13/22 03:47	1
d-N-MeFOSA-M	75		10 - 150	03/10/22 19:22	03/13/22 03:47	1
d-N-EtFOSA-M	76		10 - 150	03/10/22 19:22	03/13/22 03:47	1
d7-N-MeFOSE-M	77		10 - 150	03/10/22 19:22	03/13/22 03:47	1
d9-N-EtFOSE-M	75		10 - 150	03/10/22 19:22	03/13/22 03:47	1
M2-4:2 FTS	106		25 - 150	03/10/22 19:22	03/13/22 03:47	1
M2-6:2 FTS	97		25 - 150	03/10/22 19:22	03/13/22 03:47	1
M2-8:2 FTS	98		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C3 HFPO-DA	90		25 - 150	03/10/22 19:22	03/13/22 03:47	1
13C2 10:2 FTS	92		25 - 150	03/10/22 19:22	03/13/22 03:47	1

Client Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 9
Date Collected: 03/09/22 14:53
Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-5
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.3		4.2	2.0	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluoropentanoic acid (PFPeA)	6.0		1.7	0.42	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorohexanoic acid (PFHxA)	5.7		1.7	0.49	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.21	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorooctanoic acid (PFOA)	3.5		1.7	0.72	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluoroundecanoic acid (PFUnA)	<0.93		1.7	0.93	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80		1.7	0.80	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorobutanesulfonic acid (PFBS)	4.5		1.7	0.17	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluoropentanesulfonic acid (PFPeS)	4.6		1.7	0.25	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorohexanesulfonic acid (PFHxS)	43		1.7	0.48	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.78 J		1.7	0.16	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.46	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorononanesulfonic acid (PFNS)	<0.31		1.7	0.31	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorododecanesulfonic acid (PFDoS)	<0.82		1.7	0.82	ng/L		03/10/22 19:22	03/13/22 03:57	1
Perfluorooctanesulfonamide (FOSA)	<0.83		1.7	0.83	ng/L		03/10/22 19:22	03/13/22 03:57	1
NEtFOSA	<0.74		1.7	0.74	ng/L		03/10/22 19:22	03/13/22 03:57	1
NMeFOSA	<0.36		1.7	0.36	ng/L		03/10/22 19:22	03/13/22 03:57	1
NMeFOSAA	<1.0		4.2	1.0	ng/L		03/10/22 19:22	03/13/22 03:57	1
NEtFOSAA	<1.1		4.2	1.1	ng/L		03/10/22 19:22	03/13/22 03:57	1
NMeFOSE	<1.2		3.4	1.2	ng/L		03/10/22 19:22	03/13/22 03:57	1
NEtFOSE	<0.72		1.7	0.72	ng/L		03/10/22 19:22	03/13/22 03:57	1
4:2 FTS	<0.20		1.7	0.20	ng/L		03/10/22 19:22	03/13/22 03:57	1
6:2 FTS	<2.1		4.2	2.1	ng/L		03/10/22 19:22	03/13/22 03:57	1
8:2 FTS	<0.39		1.7	0.39	ng/L		03/10/22 19:22	03/13/22 03:57	1
10:2 FTS	<0.57		1.7	0.57	ng/L		03/10/22 19:22	03/13/22 03:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		03/10/22 19:22	03/13/22 03:57	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		03/10/22 19:22	03/13/22 03:57	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		03/10/22 19:22	03/13/22 03:57	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		03/10/22 19:22	03/13/22 03:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150				03/10/22 19:22	03/13/22 03:57	1
13C5 PFPeA	109		25 - 150				03/10/22 19:22	03/13/22 03:57	1
13C2 PFHxA	103		25 - 150				03/10/22 19:22	03/13/22 03:57	1
13C4 PFHpA	106		25 - 150				03/10/22 19:22	03/13/22 03:57	1
13C4 PFOA	102		25 - 150				03/10/22 19:22	03/13/22 03:57	1

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Client Sample Results

Client: City of Eau Claire
 Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 9
Date Collected: 03/09/22 14:53
Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-5
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	105		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C2 PFDA	102		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C2 PFUnA	98		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C2 PFDoA	93		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C2 PFTeDA	83		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C2 PFHxDA	90		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C3 PFBS	117		25 - 150	03/10/22 19:22	03/13/22 03:57	1
18O2 PFHxS	102		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C4 PFOS	112		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C8 FOSA	100		10 - 150	03/10/22 19:22	03/13/22 03:57	1
d3-NMeFOSAA	98		25 - 150	03/10/22 19:22	03/13/22 03:57	1
d5-NEtFOSAA	97		25 - 150	03/10/22 19:22	03/13/22 03:57	1
d-N-MeFOSA-M	79		10 - 150	03/10/22 19:22	03/13/22 03:57	1
d-N-EtFOSA-M	77		10 - 150	03/10/22 19:22	03/13/22 03:57	1
d7-N-MeFOSE-M	82		10 - 150	03/10/22 19:22	03/13/22 03:57	1
d9-N-EtFOSE-M	81		10 - 150	03/10/22 19:22	03/13/22 03:57	1
M2-4:2 FTS	106		25 - 150	03/10/22 19:22	03/13/22 03:57	1
M2-6:2 FTS	105		25 - 150	03/10/22 19:22	03/13/22 03:57	1
M2-8:2 FTS	102		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C3 HFPO-DA	94		25 - 150	03/10/22 19:22	03/13/22 03:57	1
13C2 10:2 FTS	96		25 - 150	03/10/22 19:22	03/13/22 03:57	1

Definitions/Glossary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

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

QC Association Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

LCMS

Prep Batch: 572005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213498-1	Well 23	Total/NA	Water	3535	
500-213498-2	WW Outfall	Total/NA	Water	3535	
500-213498-3	Well 6	Total/NA	Water	3535	
500-213498-4	Well 14	Total/NA	Water	3535	
500-213498-5	Well 9	Total/NA	Water	3535	
MB 320-572005/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-572005/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-572005/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 572034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-572005/1-A	Method Blank	Total/NA	Water	537 (modified)	572005
LCS 320-572005/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	572005
LCSD 320-572005/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	572005

Analysis Batch: 572253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-213498-1	Well 23	Total/NA	Water	537 (modified)	572005
500-213498-2	WW Outfall	Total/NA	Water	537 (modified)	572005
500-213498-3	Well 6	Total/NA	Water	537 (modified)	572005
500-213498-4	Well 14	Total/NA	Water	537 (modified)	572005
500-213498-5	Well 9	Total/NA	Water	537 (modified)	572005

QC Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-572005/1-A
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572005

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		03/09/22 21:18	03/11/22 08:50	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		03/09/22 21:18	03/11/22 08:50	1
NEtFOSA	<0.87		2.0	0.87	ng/L		03/09/22 21:18	03/11/22 08:50	1
NMeFOSA	<0.43		2.0	0.43	ng/L		03/09/22 21:18	03/11/22 08:50	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		03/09/22 21:18	03/11/22 08:50	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		03/09/22 21:18	03/11/22 08:50	1
NMeFOSE	<1.4		4.0	1.4	ng/L		03/09/22 21:18	03/11/22 08:50	1
NEtFOSE	<0.85		2.0	0.85	ng/L		03/09/22 21:18	03/11/22 08:50	1
4:2 FTS	<0.24		2.0	0.24	ng/L		03/09/22 21:18	03/11/22 08:50	1
6:2 FTS	<2.5		5.0	2.5	ng/L		03/09/22 21:18	03/11/22 08:50	1
8:2 FTS	<0.46		2.0	0.46	ng/L		03/09/22 21:18	03/11/22 08:50	1
10:2 FTS	<0.67		2.0	0.67	ng/L		03/09/22 21:18	03/11/22 08:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		03/09/22 21:18	03/11/22 08:50	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		03/09/22 21:18	03/11/22 08:50	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		03/09/22 21:18	03/11/22 08:50	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		03/09/22 21:18	03/11/22 08:50	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	96		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C5 PFPeA	98		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C2 PFHxA	99		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C4 PFHpA	103		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C4 PFOA	100		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C5 PFNA	99		25 - 150	03/09/22 21:18	03/11/22 08:50	1

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QC Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-572005/1-A
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 572005

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	94		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C2 PFUnA	94		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C2 PFDoA	94		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C2 PFTeDA	87		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C2 PFHxDA	92		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C3 PFBS	104		25 - 150	03/09/22 21:18	03/11/22 08:50	1
18O2 PFHxS	102		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C4 PFOS	113		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C8 FOSA	97		10 - 150	03/09/22 21:18	03/11/22 08:50	1
d3-NMeFOSAA	109		25 - 150	03/09/22 21:18	03/11/22 08:50	1
d5-NEtFOSAA	114		25 - 150	03/09/22 21:18	03/11/22 08:50	1
d-N-MeFOSA-M	87		10 - 150	03/09/22 21:18	03/11/22 08:50	1
d-N-EtFOSA-M	90		10 - 150	03/09/22 21:18	03/11/22 08:50	1
d7-N-MeFOSE-M	93		10 - 150	03/09/22 21:18	03/11/22 08:50	1
d9-N-EtFOSE-M	92		10 - 150	03/09/22 21:18	03/11/22 08:50	1
M2-4:2 FTS	98		25 - 150	03/09/22 21:18	03/11/22 08:50	1
M2-6:2 FTS	101		25 - 150	03/09/22 21:18	03/11/22 08:50	1
M2-8:2 FTS	111		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C3 HFPO-DA	93		25 - 150	03/09/22 21:18	03/11/22 08:50	1
13C2 10:2 FTS	113		25 - 150	03/09/22 21:18	03/11/22 08:50	1

Lab Sample ID: LCS 320-572005/2-A
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	37.8		ng/L		94	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	37.4		ng/L		93	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.8		ng/L		95	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	36.7		ng/L		92	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	37.1		ng/L		93	60 - 135
Perfluorononanoic acid (PFNA)	40.0	36.1		ng/L		90	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	35.1		ng/L		88	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	38.9		ng/L		97	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	38.2		ng/L		95	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	38.6		ng/L		97	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.8		ng/L		92	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	40.7		ng/L		102	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	37.8		ng/L		94	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	30.9		ng/L		87	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	30.0		ng/L		80	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.3		ng/L		94	60 - 135

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QC Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-572005/2-A
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	32.8		ng/L		86	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	33.2		ng/L		89	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	33.2		ng/L		86	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	34.9		ng/L		91	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	33.2		ng/L		86	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.0		ng/L		103	60 - 135
NEtFOSA	40.0	39.1		ng/L		98	60 - 135
NMeFOSA	40.0	38.2		ng/L		96	60 - 135
NMeFOSAA	40.0	37.0		ng/L		92	60 - 135
NEtFOSAA	40.0	36.4		ng/L		91	60 - 135
NMeFOSE	40.0	34.6		ng/L		87	60 - 135
NEtFOSE	40.0	36.2		ng/L		90	60 - 135
4:2 FTS	37.4	36.8		ng/L		98	60 - 135
6:2 FTS	37.9	39.4		ng/L		104	60 - 135
8:2 FTS	38.3	32.5		ng/L		85	60 - 135
10:2 FTS	38.6	33.2		ng/L		86	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	32.6		ng/L		87	60 - 135
HFPO-DA (GenX)	40.0	39.1		ng/L		98	60 - 135
9CI-PF3ONS	37.3	30.4		ng/L		82	60 - 135
11CI-PF3OUdS	37.7	31.2		ng/L		83	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	91		25 - 150
13C5 PFPeA	92		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	104		25 - 150
13C5 PFNA	104		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	100		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	91		25 - 150
13C2 PFHxDA	88		25 - 150
13C3 PFBS	111		25 - 150
18O2 PFHxS	100		25 - 150
13C4 PFOS	113		25 - 150
13C8 FOSA	101		10 - 150
d3-NMeFOSAA	108		25 - 150
d5-NEtFOSAA	107		25 - 150
d-N-MeFOSA-M	84		10 - 150
d-N-EtFOSA-M	84		10 - 150
d7-N-MeFOSE-M	93		10 - 150
d9-N-EtFOSE-M	94		10 - 150

QC Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-572005/2-A
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 572005

<i>Isotope Dilution</i>	<i>LCS LCS</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-4:2 FTS	93		25 - 150
M2-6:2 FTS	92		25 - 150
M2-8:2 FTS	105		25 - 150
13C3 HFPO-DA	94		25 - 150
13C2 10:2 FTS	109		25 - 150

Lab Sample ID: LCSD 320-572005/3-A
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 572005

<i>Analyte</i>	<i>Spike Added</i>	<i>LCSD Result</i>	<i>LCSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
Perfluorobutanoic acid (PFBA)	40.0	35.8		ng/L		90	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)	40.0	37.8		ng/L		94	60 - 135	1	30
Perfluorohexanoic acid (PFHxA)	40.0	35.4		ng/L		89	60 - 135	7	30
Perfluoroheptanoic acid (PFHpA)	40.0	35.5		ng/L		89	60 - 135	3	30
Perfluorooctanoic acid (PFOA)	40.0	36.8		ng/L		92	60 - 135	1	30
Perfluorononanoic acid (PFNA)	40.0	38.6		ng/L		97	60 - 135	7	30
Perfluorodecanoic acid (PFDA)	40.0	35.9		ng/L		90	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	39.4		ng/L		98	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)	40.0	38.0		ng/L		95	60 - 135	0	30
Perfluorotridecanoic acid (PFTrDA)	40.0	39.2		ng/L		98	60 - 135	1	30
Perfluorotetradecanoic acid (PFTeA)	40.0	35.6		ng/L		89	60 - 135	4	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	35.4		ng/L		88	60 - 135	14	30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	34.7		ng/L		87	60 - 135	9	30
Perfluorobutanesulfonic acid (PFBS)	35.4	29.7		ng/L		84	60 - 135	4	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	30.3		ng/L		81	60 - 135	1	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.1		ng/L		96	60 - 135	2	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	32.9		ng/L		86	60 - 135	0	30
Perfluorooctanesulfonic acid (PFOS)	37.1	34.2		ng/L		92	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)	38.4	32.1		ng/L		84	60 - 135	3	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.5		ng/L		92	60 - 135	2	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	33.7		ng/L		87	60 - 135	2	30
Perfluorooctanesulfonamide (FOSA)	40.0	38.7		ng/L		97	60 - 135	6	30
NEtFOSA	40.0	39.3		ng/L		98	60 - 135	0	30
NMeFOSA	40.0	38.5		ng/L		96	60 - 135	1	30
NMeFOSAA	40.0	34.1		ng/L		85	60 - 135	8	30
NEtFOSAA	40.0	34.6		ng/L		86	60 - 135	5	30
NMeFOSE	40.0	36.3		ng/L		91	60 - 135	5	30

Eurofins Chicago

QC Sample Results

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-572005/3-A
Matrix: Water
Analysis Batch: 572034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 572005

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NETFOSE	40.0	33.7		ng/L		84	60 - 135	7	30
4:2 FTS	37.4	35.9		ng/L		96	60 - 135	2	30
6:2 FTS	37.9	36.8		ng/L		97	60 - 135	7	30
8:2 FTS	38.3	37.6		ng/L		98	60 - 135	15	30
10:2 FTS	38.6	37.0		ng/L		96	60 - 135	11	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	32.1		ng/L		85	60 - 135	1	30
HFPO-DA (GenX)	40.0	37.1		ng/L		93	60 - 135	5	30
9CI-PF3ONS	37.3	29.8		ng/L		80	60 - 135	2	30
11CI-PF3OUdS	37.7	29.1		ng/L		77	60 - 135	7	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	102		25 - 150
13C5 PFPeA	98		25 - 150
13C2 PFHxA	103		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	104		25 - 150
13C2 PFDA	108		25 - 150
13C2 PFUnA	103		25 - 150
13C2 PFDoA	101		25 - 150
13C2 PFTeDA	99		25 - 150
13C2 PFHxDA	93		25 - 150
13C3 PFBS	118		25 - 150
18O2 PFHxS	106		25 - 150
13C4 PFOS	121		25 - 150
13C8 FOSA	105		10 - 150
d3-NMeFOSAA	114		25 - 150
d5-NEtFOSAA	119		25 - 150
d-N-MeFOSA-M	92		10 - 150
d-N-EtFOSA-M	91		10 - 150
d7-N-MeFOSE-M	101		10 - 150
d9-N-EtFOSE-M	102		10 - 150
M2-4:2 FTS	99		25 - 150
M2-6:2 FTS	101		25 - 150
M2-8:2 FTS	98		25 - 150
13C3 HFPO-DA	98		25 - 150
13C2 10:2 FTS	108		25 - 150

Lab Chronicle

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Client Sample ID: Well 23

Date Collected: 03/04/22 09:31

Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			572005	03/10/22 19:22	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	572253	03/13/22 03:17	RS1	TAL SAC

Client Sample ID: WW Outfall

Date Collected: 03/09/22 14:35

Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			572005	03/10/22 19:22	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	572253	03/13/22 03:27	RS1	TAL SAC

Client Sample ID: Well 6

Date Collected: 03/09/22 14:39

Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			572005	03/10/22 19:22	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	572253	03/13/22 03:37	RS1	TAL SAC

Client Sample ID: Well 14

Date Collected: 03/09/22 14:46

Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			572005	03/10/22 19:22	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	572253	03/13/22 03:47	RS1	TAL SAC

Client Sample ID: Well 9

Date Collected: 03/09/22 14:53

Date Received: 03/10/22 15:53

Lab Sample ID: 500-213498-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			572005	03/10/22 19:22	FX	TAL SAC
Total/NA	Analysis	537 (modified)		1	572253	03/13/22 03:57	RS1	TAL SAC

Laboratory References:

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Laboratory: Eurofins Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Chain of Custody Record

Client Information Client Contact: Tyler Fadness Ty Fadness Company: PWSIC City of Eau Claire Address: 1000 Ferry Street City: Eau Claire State, Zip: WI, 54703 Phone: 50210879-00 Email: Tyler.Fadness@EauClaireWI.Gov Project Name: PFAS Testing Site:		Lab Pk: Fredrick, Sandie E-Mail: sandra.fredrick@eurofinsel.com Camnet Tracking No(s): State of Origin: Page 1 of 1 Job #:	
Due Date Requested: 3/18/22 TAT Requested (days): 10-12 w/ TAT Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: 50210879-00 WO #: 50019745 Project #: 50019745 SOW #:		Analysis Requested Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> PFAS (M, MS, MSD, Yes or No) <input checked="" type="checkbox"/> PFOA, PFAS, Extended List (38 Analytes) <input checked="" type="checkbox"/> Total Number of Parameters:	
Sample Identification Well 23 Well Outfall Well 6 Well 14 Well 9		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/Note:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Method of Shipment: 14 PPO Date/Time: 3/18/22 Date/Time: 3/18/22 Date/Time:	
Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody Seal No.: 1602753		Cooler Temperature(s) °C and Other Remarks: 0.6C	



Chain of Custody Record

Client Information		Lab P.M. Fredrick, Sandie	Carrier Tracking No(s):	COC No. 500-98767-43307.1
City of Eau Claire		Phone: 715-839-6121	State of Origin:	Page: Page 1 of 1
Address: 1000 Ferry Street		E-Mail: sandra.fredrick@eurofinset.com	Job #:	
City: Eau Claire		Analysis Requested Total Number of Containers: 3 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsH2O2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydralite U - Acetone V - MCAA W - pH 4.5 Z - other (specify)		
State, Zip: WI, 54703				
Phone: 50210879-00				
PO #: 50210879-00				
WO #:				
Project #: 50019745		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Site: PFAS Testing		Special Instructions/Note:		
Due Date Requested: 3/18/22 TAT Requested (days): 10-14-7 TAT Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Project Name: Tyler.Fadness@EauClaire.Wi.Gov PFAS Testing Site:		Special Instructions/Note: 500-213498 Chain of Custody		
Sample Identification Well 23 Well Outfall Well 6 Well 14 Well 9		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Form MSD (Yes or No) <input checked="" type="checkbox"/> PFC, IDA, WI - PFAS, Extended List (36 Analyses) <input checked="" type="checkbox"/> Matrix (W=water, S=solid, O=oil, W=oil, B=BT, T=toxic, A=AM) Sample Type (C=comp, G=grab) Preservation Code Sample Date Sample Time Matrix 3/4/22 0931 Water 3/5/22 1435 Water 3/5/22 1439 Water 3/7/22 1446 Water 3/9/22 1453 Water		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/QC Requirements:		
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		
Relinquished by: <i>[Signature]</i>		Date: 3/9/22 1515		
Relinquished by:		Date/Time: 3/9/22 1515		
Relinquished by:		Date/Time:		
Relinquished by:		Date/Time:		
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 0.6 C		



Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-213498-1

Login Number: 213498

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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	
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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-213498-1

Login Number: 213498

List Number: 2

Creator: Her, David A

List Source: Eurofins Sacramento

List Creation: 03/10/22 03:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1802753
Sample custody seals, if present, are intact.	N/A	
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	0.6 c
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 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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: City of Eau Claire
Project/Site: PFAS Testing

Job ID: 500-213498-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
500-213498-1	Well 23	95	100	104	103	102	102	96	98
500-213498-2	WW Outfall	90	102	95	98	101	105	97	97
500-213498-3	Well 6	85	95	97	98	96	95	96	92
500-213498-4	Well 14	91	98	101	97	102	99	95	89
500-213498-5	Well 9	94	109	103	106	102	105	102	98
LCS 320-572005/2-A	Lab Control Sample	91	92	97	101	104	104	99	100
LCSD 320-572005/3-A	Lab Control Sample Dup	102	98	103	108	102	104	108	103
MB 320-572005/1-A	Method Blank	96	98	99	103	100	99	94	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-213498-1	Well 23	93	91	91	111	98	105	96	94
500-213498-2	WW Outfall	83	84	92	106	95	98	91	85
500-213498-3	Well 6	82	79	84	103	96	102	92	87
500-213498-4	Well 14	84	81	86	113	98	104	97	90
500-213498-5	Well 9	93	83	90	117	102	112	100	98
LCS 320-572005/2-A	Lab Control Sample	93	91	88	111	100	113	101	108
LCSD 320-572005/3-A	Lab Control Sample Dup	101	99	93	118	106	121	105	114
MB 320-572005/1-A	Method Blank	94	87	92	104	102	113	97	109

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	d5NEFOS (25-150)	dMeFOSA (10-150)	dEtFOSA (10-150)	NMFm (10-150)	NEFM (10-150)	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)
500-213498-1	Well 23	99	87	83	89	89	92	103	94
500-213498-2	WW Outfall	90	75	74	80	83	98	99	94
500-213498-3	Well 6	87	72	71	77	77	99	96	94
500-213498-4	Well 14	93	75	76	77	75	106	97	98
500-213498-5	Well 9	97	79	77	82	81	106	105	102
LCS 320-572005/2-A	Lab Control Sample	107	84	84	93	94	93	92	105
LCSD 320-572005/3-A	Lab Control Sample Dup	119	92	91	101	102	99	101	98
MB 320-572005/1-A	Method Blank	114	87	90	93	92	98	101	111

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-213498-1	Well 23	96	103
500-213498-2	WW Outfall	96	88
500-213498-3	Well 6	91	82
500-213498-4	Well 14	90	92
500-213498-5	Well 9	94	96
LCS 320-572005/2-A	Lab Control Sample	94	109
LCSD 320-572005/3-A	Lab Control Sample Dup	98	108
MB 320-572005/1-A	Method Blank	93	113

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA

Isotope Dilution Summary

Job ID: 500-213498-1

Client: City of Eau Claire
Project/Site: PFAS Testing

PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
PFHxDA = 13C2 PFHxDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFm = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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