

ANALYTICAL REPORT

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

Laboratory Job ID: 500-214049-1
Client Project/Site: PFAS Testing

For:

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

Attn: Ty Fadness



Authorized for release by:
4/4/2022 3:41:27 PM

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



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	4
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	16
QC Association	17
QC Sample Results	18
Chronicle	23
Certification Summary	24
Chain of Custody	25
Receipt Checklists	27
Field Data Sheets	29
Isotope Dilution Summary	30

Case Narrative

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

Job ID: 500-214049-1

Job ID: 500-214049-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-214049-1**

Comments

No additional comments.

Receipt

The samples were received on 3/24/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° 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 320-576999. Method Code: 3535_PFC_28D Matrix: Aqueous

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

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

Detection Summary

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

Job ID: 500-214049-1

Client Sample ID: WW Outfall

Lab Sample ID: 500-214049-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.9		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.0		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.0		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.6		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.24	J	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.6		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	7.2		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	52		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.2	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 6

Lab Sample ID: 500-214049-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.8		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.9		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.27	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.8		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.7		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	23		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.50	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.9		1.8	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 14

Lab Sample ID: 500-214049-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.4		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.3		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.1		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.9		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.29	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.8		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.3		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	39		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.79	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13		1.8	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 9

Lab Sample ID: 500-214049-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	7.2		4.5	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.7		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.8		1.8	0.52	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: 500-214049-1

Client Sample ID: Well 9 (Continued)

Lab Sample ID: 500-214049-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	2.3		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	7.0		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	7.1		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	46		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.0	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	19		1.8	0.48	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: 500-214049-1

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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- 3
- 4
- 5
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- 7
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- 11
- 12
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- 14
- 15
- 16

Sample Summary

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

Job ID: 500-214049-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-214049-1	WW Outfall	Water	03/23/22 09:10	03/24/22 09:15
500-214049-2	Well 6	Water	03/23/22 09:18	03/24/22 09:15
500-214049-3	Well 14	Water	03/23/22 09:25	03/24/22 09:15
500-214049-4	Well 9	Water	03/23/22 09:34	03/24/22 09:15

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- 2
- 3
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- 8
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- 10
- 11
- 12
- 13
- 14
- 15
- 16

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: WW Outfall

Lab Sample ID: 500-214049-1

Date Collected: 03/23/22 09:10

Matrix: Water

Date Received: 03/24/22 09:15

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9		4.3	2.1	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluoropentanoic acid (PFPeA)	8.0		1.7	0.42	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorohexanoic acid (PFHxA)	7.0		1.7	0.50	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluoroheptanoic acid (PFHpA)	2.1		1.7	0.22	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorooctanoic acid (PFOA)	4.6		1.7	0.73	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorononanoic acid (PFNA)	0.24	J	1.7	0.23	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.77		1.7	0.77	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorobutanesulfonic acid (PFBS)	6.6		1.7	0.17	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluoropentanesulfonic acid (PFPeS)	7.2		1.7	0.26	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorohexanesulfonic acid (PFHxS)	52		1.7	0.49	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluoroheptanesulfonic acid (PFHpS)	1.2	J	1.7	0.16	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorooctanesulfonic acid (PFOS)	25		1.7	0.47	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		03/31/22 12:58	04/01/22 18:09	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		03/31/22 12:58	04/01/22 18:09	1
NEtFOSA	<0.75		1.7	0.75	ng/L		03/31/22 12:58	04/01/22 18:09	1
NMeFOSA	<0.37		1.7	0.37	ng/L		03/31/22 12:58	04/01/22 18:09	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		03/31/22 12:58	04/01/22 18:09	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		03/31/22 12:58	04/01/22 18:09	1
NMeFOSE	<1.2		3.4	1.2	ng/L		03/31/22 12:58	04/01/22 18:09	1
NEtFOSE	<0.73		1.7	0.73	ng/L		03/31/22 12:58	04/01/22 18:09	1
4:2 FTS	<0.21		1.7	0.21	ng/L		03/31/22 12:58	04/01/22 18:09	1
6:2 FTS	<2.2		4.3	2.2	ng/L		03/31/22 12:58	04/01/22 18:09	1
8:2 FTS	<0.40		1.7	0.40	ng/L		03/31/22 12:58	04/01/22 18:09	1
10:2 FTS	<0.58		1.7	0.58	ng/L		03/31/22 12:58	04/01/22 18:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		03/31/22 12:58	04/01/22 18:09	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		03/31/22 12:58	04/01/22 18:09	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		03/31/22 12:58	04/01/22 18:09	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		03/31/22 12:58	04/01/22 18:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C5 PFPeA	78		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C2 PFHxA	92		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C4 PFHpA	95		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C4 PFOA	92		25 - 150	03/31/22 12:58	04/01/22 18:09	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: WW Outfall

Lab Sample ID: 500-214049-1

Date Collected: 03/23/22 09:10

Matrix: Water

Date Received: 03/24/22 09:15

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	86		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C2 PFDA	90		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C2 PFUnA	87		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C2 PFDoA	77		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C2 PFTeDA	68		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C2 PFHxDA	69		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C3 PFBS	78		25 - 150	03/31/22 12:58	04/01/22 18:09	1
18O2 PFHxS	88		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C4 PFOS	79		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C8 FOSA	94		10 - 150	03/31/22 12:58	04/01/22 18:09	1
d3-NMeFOSAA	71		25 - 150	03/31/22 12:58	04/01/22 18:09	1
d5-NEtFOSAA	75		25 - 150	03/31/22 12:58	04/01/22 18:09	1
d-N-MeFOSA-M	64		10 - 150	03/31/22 12:58	04/01/22 18:09	1
d-N-EtFOSA-M	62		10 - 150	03/31/22 12:58	04/01/22 18:09	1
d7-N-MeFOSE-M	68		10 - 150	03/31/22 12:58	04/01/22 18:09	1
d9-N-EtFOSE-M	67		10 - 150	03/31/22 12:58	04/01/22 18:09	1
M2-4:2 FTS	113		25 - 150	03/31/22 12:58	04/01/22 18:09	1
M2-6:2 FTS	108		25 - 150	03/31/22 12:58	04/01/22 18:09	1
M2-8:2 FTS	104		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C3 HFPO-DA	87		25 - 150	03/31/22 12:58	04/01/22 18:09	1
13C2 10:2 FTS	99		25 - 150	03/31/22 12:58	04/01/22 18:09	1

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: Well 6
Date Collected: 03/23/22 09:18
Date Received: 03/24/22 09:15

Lab Sample ID: 500-214049-2
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.8		4.6	2.2	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluoropentanoic acid (PFPeA)	2.9		1.8	0.45	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorohexanoic acid (PFHxA)	2.9		1.8	0.53	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.8	0.23	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorooctanoic acid (PFOA)	2.6		1.8	0.78	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorononanoic acid (PFNA)	0.27	J	1.8	0.25	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorobutanesulfonic acid (PFBS)	3.8		1.8	0.18	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluoropentanesulfonic acid (PFPeS)	3.7		1.8	0.28	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorohexanesulfonic acid (PFHxS)	23		1.8	0.52	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluoroheptanesulfonic acid (PFHpS)	0.50	J	1.8	0.17	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorooctanesulfonic acid (PFOS)	6.9		1.8	0.50	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		03/31/22 12:58	04/01/22 18:19	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		03/31/22 12:58	04/01/22 18:19	1
NEtFOSA	<0.80		1.8	0.80	ng/L		03/31/22 12:58	04/01/22 18:19	1
NMeFOSA	<0.40		1.8	0.40	ng/L		03/31/22 12:58	04/01/22 18:19	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		03/31/22 12:58	04/01/22 18:19	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		03/31/22 12:58	04/01/22 18:19	1
NMeFOSE	<1.3		3.7	1.3	ng/L		03/31/22 12:58	04/01/22 18:19	1
NEtFOSE	<0.78		1.8	0.78	ng/L		03/31/22 12:58	04/01/22 18:19	1
4:2 FTS	<0.22		1.8	0.22	ng/L		03/31/22 12:58	04/01/22 18:19	1
6:2 FTS	<2.3		4.6	2.3	ng/L		03/31/22 12:58	04/01/22 18:19	1
8:2 FTS	<0.42		1.8	0.42	ng/L		03/31/22 12:58	04/01/22 18:19	1
10:2 FTS	<0.62		1.8	0.62	ng/L		03/31/22 12:58	04/01/22 18:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		03/31/22 12:58	04/01/22 18:19	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		03/31/22 12:58	04/01/22 18:19	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		03/31/22 12:58	04/01/22 18:19	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		03/31/22 12:58	04/01/22 18:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	75		25 - 150				03/31/22 12:58	04/01/22 18:19	1
13C5 PFPeA	79		25 - 150				03/31/22 12:58	04/01/22 18:19	1
13C2 PFHxA	92		25 - 150				03/31/22 12:58	04/01/22 18:19	1
13C4 PFHpA	93		25 - 150				03/31/22 12:58	04/01/22 18:19	1
13C4 PFOA	93		25 - 150				03/31/22 12:58	04/01/22 18:19	1

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: Well 6

Lab Sample ID: 500-214049-2

Date Collected: 03/23/22 09:18

Matrix: Water

Date Received: 03/24/22 09:15

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C5 PFNA	85		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C2 PFDA	87		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C2 PFUnA	84		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C2 PFDoA	81		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C2 PFTeDA	69		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C2 PFHxDA	67		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C3 PFBS	78		25 - 150	03/31/22 12:58	04/01/22 18:19	1
18O2 PFHxS	82		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C4 PFOS	81		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C8 FOSA	96		10 - 150	03/31/22 12:58	04/01/22 18:19	1
d3-NMeFOSAA	72		25 - 150	03/31/22 12:58	04/01/22 18:19	1
d5-NEtFOSAA	83		25 - 150	03/31/22 12:58	04/01/22 18:19	1
d-N-MeFOSA-M	67		10 - 150	03/31/22 12:58	04/01/22 18:19	1
d-N-EtFOSA-M	65		10 - 150	03/31/22 12:58	04/01/22 18:19	1
d7-N-MeFOSE-M	71		10 - 150	03/31/22 12:58	04/01/22 18:19	1
d9-N-EtFOSE-M	71		10 - 150	03/31/22 12:58	04/01/22 18:19	1
M2-4:2 FTS	109		25 - 150	03/31/22 12:58	04/01/22 18:19	1
M2-6:2 FTS	104		25 - 150	03/31/22 12:58	04/01/22 18:19	1
M2-8:2 FTS	104		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C3 HFPO-DA	84		25 - 150	03/31/22 12:58	04/01/22 18:19	1
13C2 10:2 FTS	100		25 - 150	03/31/22 12:58	04/01/22 18:19	1

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: Well 14

Lab Sample ID: 500-214049-3

Date Collected: 03/23/22 09:25

Matrix: Water

Date Received: 03/24/22 09:15

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.4		4.4	2.1	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluoropentanoic acid (PFPeA)	4.3		1.8	0.44	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorohexanoic acid (PFHxA)	4.1		1.8	0.52	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluoroheptanoic acid (PFHpA)	1.4	J	1.8	0.22	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorooctanoic acid (PFOA)	2.9		1.8	0.76	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorononanoic acid (PFNA)	0.29	J	1.8	0.24	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorobutanesulfonic acid (PFBS)	5.8		1.8	0.18	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluoropentanesulfonic acid (PFPeS)	5.3		1.8	0.27	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorohexanesulfonic acid (PFHxS)	39		1.8	0.51	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluoroheptanesulfonic acid (PFHpS)	0.79	J	1.8	0.17	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorooctanesulfonic acid (PFOS)	13		1.8	0.48	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		03/31/22 12:58	04/01/22 18:29	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		03/31/22 12:58	04/01/22 18:29	1
NEtFOSA	<0.77		1.8	0.77	ng/L		03/31/22 12:58	04/01/22 18:29	1
NMeFOSA	<0.38		1.8	0.38	ng/L		03/31/22 12:58	04/01/22 18:29	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		03/31/22 12:58	04/01/22 18:29	1
NEtFOSAA	<1.2		4.4	1.2	ng/L		03/31/22 12:58	04/01/22 18:29	1
NMeFOSE	<1.2		3.6	1.2	ng/L		03/31/22 12:58	04/01/22 18:29	1
NEtFOSE	<0.76		1.8	0.76	ng/L		03/31/22 12:58	04/01/22 18:29	1
4:2 FTS	<0.21		1.8	0.21	ng/L		03/31/22 12:58	04/01/22 18:29	1
6:2 FTS	<2.2		4.4	2.2	ng/L		03/31/22 12:58	04/01/22 18:29	1
8:2 FTS	<0.41		1.8	0.41	ng/L		03/31/22 12:58	04/01/22 18:29	1
10:2 FTS	<0.60		1.8	0.60	ng/L		03/31/22 12:58	04/01/22 18:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		03/31/22 12:58	04/01/22 18:29	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		03/31/22 12:58	04/01/22 18:29	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		03/31/22 12:58	04/01/22 18:29	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		03/31/22 12:58	04/01/22 18:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	72		25 - 150				03/31/22 12:58	04/01/22 18:29	1
13C5 PFPeA	78		25 - 150				03/31/22 12:58	04/01/22 18:29	1
13C2 PFHxA	87		25 - 150				03/31/22 12:58	04/01/22 18:29	1
13C4 PFHpA	87		25 - 150				03/31/22 12:58	04/01/22 18:29	1
13C4 PFOA	89		25 - 150				03/31/22 12:58	04/01/22 18:29	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: Well 14

Lab Sample ID: 500-214049-3

Date Collected: 03/23/22 09:25

Matrix: Water

Date Received: 03/24/22 09:15

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C5 PFNA	84		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C2 PFDA	85		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C2 PFUnA	84		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C2 PFDoA	72		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C2 PFTeDA	62		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C2 PFHxDA	65		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C3 PFBS	74		25 - 150	03/31/22 12:58	04/01/22 18:29	1
18O2 PFHxS	82		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C4 PFOS	78		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C8 FOSA	91		10 - 150	03/31/22 12:58	04/01/22 18:29	1
d3-NMeFOSAA	70		25 - 150	03/31/22 12:58	04/01/22 18:29	1
d5-NEtFOSAA	76		25 - 150	03/31/22 12:58	04/01/22 18:29	1
d-N-MeFOSA-M	59		10 - 150	03/31/22 12:58	04/01/22 18:29	1
d-N-EtFOSA-M	55		10 - 150	03/31/22 12:58	04/01/22 18:29	1
d7-N-MeFOSE-M	61		10 - 150	03/31/22 12:58	04/01/22 18:29	1
d9-N-EtFOSE-M	61		10 - 150	03/31/22 12:58	04/01/22 18:29	1
M2-4:2 FTS	106		25 - 150	03/31/22 12:58	04/01/22 18:29	1
M2-6:2 FTS	96		25 - 150	03/31/22 12:58	04/01/22 18:29	1
M2-8:2 FTS	95		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C3 HFPO-DA	80		25 - 150	03/31/22 12:58	04/01/22 18:29	1
13C2 10:2 FTS	89		25 - 150	03/31/22 12:58	04/01/22 18:29	1

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: Well 9
Date Collected: 03/23/22 09:34
Date Received: 03/24/22 09:15

Lab Sample ID: 500-214049-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.2		4.5	2.1	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluoropentanoic acid (PFPeA)	5.7		1.8	0.44	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorohexanoic acid (PFHxA)	5.8		1.8	0.52	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluoroheptanoic acid (PFHpA)	2.3		1.8	0.22	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorooctanoic acid (PFOA)	3.6		1.8	0.76	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorobutanesulfonic acid (PFBS)	7.0		1.8	0.18	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluoropentanesulfonic acid (PFPeS)	7.1		1.8	0.27	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorohexanesulfonic acid (PFHxS)	46		1.8	0.51	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluoroheptanesulfonic acid (PFHpS)	1.0 J		1.8	0.17	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorooctanesulfonic acid (PFOS)	19		1.8	0.48	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		03/31/22 12:58	04/01/22 18:39	1
Perfluorooctanesulfonamide (FOSA)	<0.87		1.8	0.87	ng/L		03/31/22 12:58	04/01/22 18:39	1
NEtFOSA	<0.78		1.8	0.78	ng/L		03/31/22 12:58	04/01/22 18:39	1
NMeFOSA	<0.38		1.8	0.38	ng/L		03/31/22 12:58	04/01/22 18:39	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		03/31/22 12:58	04/01/22 18:39	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		03/31/22 12:58	04/01/22 18:39	1
NMeFOSE	<1.2		3.6	1.2	ng/L		03/31/22 12:58	04/01/22 18:39	1
NEtFOSE	<0.76		1.8	0.76	ng/L		03/31/22 12:58	04/01/22 18:39	1
4:2 FTS	<0.21		1.8	0.21	ng/L		03/31/22 12:58	04/01/22 18:39	1
6:2 FTS	<2.2		4.5	2.2	ng/L		03/31/22 12:58	04/01/22 18:39	1
8:2 FTS	<0.41		1.8	0.41	ng/L		03/31/22 12:58	04/01/22 18:39	1
10:2 FTS	<0.60		1.8	0.60	ng/L		03/31/22 12:58	04/01/22 18:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		03/31/22 12:58	04/01/22 18:39	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		03/31/22 12:58	04/01/22 18:39	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		03/31/22 12:58	04/01/22 18:39	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		03/31/22 12:58	04/01/22 18:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	75		25 - 150				03/31/22 12:58	04/01/22 18:39	1
13C5 PFPeA	79		25 - 150				03/31/22 12:58	04/01/22 18:39	1
13C2 PFHxA	88		25 - 150				03/31/22 12:58	04/01/22 18:39	1
13C4 PFHpA	89		25 - 150				03/31/22 12:58	04/01/22 18:39	1
13C4 PFOA	92		25 - 150				03/31/22 12:58	04/01/22 18:39	1

Client Sample Results

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

Job ID: 500-214049-1

Client Sample ID: Well 9
Date Collected: 03/23/22 09:34
Date Received: 03/24/22 09:15

Lab Sample ID: 500-214049-4
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	85		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C2 PFDA	84		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C2 PFUnA	82		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C2 PFDoA	73		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C2 PFTeDA	58		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C2 PFHxDA	63		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C3 PFBS	75		25 - 150	03/31/22 12:58	04/01/22 18:39	1
18O2 PFHxS	85		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C4 PFOS	79		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C8 FOSA	92		10 - 150	03/31/22 12:58	04/01/22 18:39	1
d3-NMeFOSAA	67		25 - 150	03/31/22 12:58	04/01/22 18:39	1
d5-NEtFOSAA	72		25 - 150	03/31/22 12:58	04/01/22 18:39	1
d-N-MeFOSA-M	58		10 - 150	03/31/22 12:58	04/01/22 18:39	1
d-N-EtFOSA-M	56		10 - 150	03/31/22 12:58	04/01/22 18:39	1
d7-N-MeFOSE-M	64		10 - 150	03/31/22 12:58	04/01/22 18:39	1
d9-N-EtFOSE-M	60		10 - 150	03/31/22 12:58	04/01/22 18:39	1
M2-4:2 FTS	105		25 - 150	03/31/22 12:58	04/01/22 18:39	1
M2-6:2 FTS	89		25 - 150	03/31/22 12:58	04/01/22 18:39	1
M2-8:2 FTS	100		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C3 HFPO-DA	81		25 - 150	03/31/22 12:58	04/01/22 18:39	1
13C2 10:2 FTS	91		25 - 150	03/31/22 12:58	04/01/22 18:39	1

Definitions/Glossary

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

Job ID: 500-214049-1

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: 500-214049-1

LCMS

Prep Batch: 576999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214049-1	WW Outfall	Total/NA	Water	3535	
500-214049-2	Well 6	Total/NA	Water	3535	
500-214049-3	Well 14	Total/NA	Water	3535	
500-214049-4	Well 9	Total/NA	Water	3535	
MB 320-576999/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-576999/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-576999/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 577332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214049-1	WW Outfall	Total/NA	Water	537 (modified)	576999
500-214049-2	Well 6	Total/NA	Water	537 (modified)	576999
500-214049-3	Well 14	Total/NA	Water	537 (modified)	576999
500-214049-4	Well 9	Total/NA	Water	537 (modified)	576999
MB 320-576999/1-A	Method Blank	Total/NA	Water	537 (modified)	576999
LCS 320-576999/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	576999

Analysis Batch: 577395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-576999/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	576999

QC Sample Results

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

Job ID: 500-214049-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-576999/1-A
Matrix: Water
Analysis Batch: 577332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576999

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		03/31/22 12:58	04/01/22 17:38	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		03/31/22 12:58	04/01/22 17:38	1
NEtFOSA	<0.87		2.0	0.87	ng/L		03/31/22 12:58	04/01/22 17:38	1
NMeFOSA	<0.43		2.0	0.43	ng/L		03/31/22 12:58	04/01/22 17:38	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		03/31/22 12:58	04/01/22 17:38	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		03/31/22 12:58	04/01/22 17:38	1
NMeFOSE	<1.4		4.0	1.4	ng/L		03/31/22 12:58	04/01/22 17:38	1
NEtFOSE	<0.85		2.0	0.85	ng/L		03/31/22 12:58	04/01/22 17:38	1
4:2 FTS	<0.24		2.0	0.24	ng/L		03/31/22 12:58	04/01/22 17:38	1
6:2 FTS	<2.5		5.0	2.5	ng/L		03/31/22 12:58	04/01/22 17:38	1
8:2 FTS	<0.46		2.0	0.46	ng/L		03/31/22 12:58	04/01/22 17:38	1
10:2 FTS	<0.67		2.0	0.67	ng/L		03/31/22 12:58	04/01/22 17:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		03/31/22 12:58	04/01/22 17:38	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		03/31/22 12:58	04/01/22 17:38	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		03/31/22 12:58	04/01/22 17:38	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		03/31/22 12:58	04/01/22 17:38	1
Isotope Dilution	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C4 PFBA	83		25 - 150				03/31/22 12:58	04/01/22 17:38	1
13C5 PFPeA	82		25 - 150				03/31/22 12:58	04/01/22 17:38	1
13C2 PFHxA	93		25 - 150				03/31/22 12:58	04/01/22 17:38	1
13C4 PFHpA	89		25 - 150				03/31/22 12:58	04/01/22 17:38	1
13C4 PFOA	93		25 - 150				03/31/22 12:58	04/01/22 17:38	1
13C5 PFNA	88		25 - 150				03/31/22 12:58	04/01/22 17:38	1

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QC Sample Results

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

Job ID: 500-214049-1

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

Lab Sample ID: MB 320-576999/1-A
Matrix: Water
Analysis Batch: 577332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 576999

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	91		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C2 PFUnA	91		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C2 PFDoA	82		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C2 PFTeDA	76		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C2 PFHxDA	70		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C3 PFBS	78		25 - 150	03/31/22 12:58	04/01/22 17:38	1
18O2 PFHxS	88		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C4 PFOS	88		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C8 FOSA	102		10 - 150	03/31/22 12:58	04/01/22 17:38	1
d3-NMeFOSAA	78		25 - 150	03/31/22 12:58	04/01/22 17:38	1
d5-NEtFOSAA	80		25 - 150	03/31/22 12:58	04/01/22 17:38	1
d-N-MeFOSA-M	71		10 - 150	03/31/22 12:58	04/01/22 17:38	1
d-N-EtFOSA-M	70		10 - 150	03/31/22 12:58	04/01/22 17:38	1
d7-N-MeFOSE-M	78		10 - 150	03/31/22 12:58	04/01/22 17:38	1
d9-N-EtFOSE-M	80		10 - 150	03/31/22 12:58	04/01/22 17:38	1
M2-4:2 FTS	112		25 - 150	03/31/22 12:58	04/01/22 17:38	1
M2-6:2 FTS	108		25 - 150	03/31/22 12:58	04/01/22 17:38	1
M2-8:2 FTS	113		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C3 HFPO-DA	81		25 - 150	03/31/22 12:58	04/01/22 17:38	1
13C2 10:2 FTS	103		25 - 150	03/31/22 12:58	04/01/22 17:38	1

Lab Sample ID: LCS 320-576999/2-A
Matrix: Water
Analysis Batch: 577332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	40.0	51.4		ng/L		128	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.2		ng/L		111	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	50.0		ng/L		125	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	44.6		ng/L		112	60 - 135
Perfluorononanoic acid (PFNA)	40.0	48.1		ng/L		120	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	44.5		ng/L		111	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	51.2		ng/L		128	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	45.6		ng/L		114	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	47.1		ng/L		118	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	46.0		ng/L		115	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	46.3		ng/L		116	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	34.6		ng/L		87	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	45.0		ng/L		127	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	47.1		ng/L		126	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	40.8		ng/L		112	60 - 135

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QC Sample Results

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

Job ID: 500-214049-1

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

Lab Sample ID: LCS 320-576999/2-A
Matrix: Water
Analysis Batch: 577332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.1	43.3		ng/L		114	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	42.7		ng/L		115	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	48.4		ng/L		126	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	44.5		ng/L		115	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	43.3		ng/L		112	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	39.4		ng/L		99	60 - 135
NEtFOSA	40.0	43.8		ng/L		110	60 - 135
NMeFOSA	40.0	43.6		ng/L		109	60 - 135
NMeFOSAA	40.0	50.8		ng/L		127	60 - 135
NEtFOSAA	40.0	46.0		ng/L		115	60 - 135
NMeFOSE	40.0	45.0		ng/L		112	60 - 135
NEtFOSE	40.0	42.6		ng/L		106	60 - 135
4:2 FTS	37.4	48.5		ng/L		130	60 - 135
6:2 FTS	37.9	37.2		ng/L		98	60 - 135
8:2 FTS	38.3	45.0		ng/L		118	60 - 135
10:2 FTS	38.6	43.8		ng/L		114	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	49.6		ng/L		132	60 - 135
HFPO-DA (GenX)	40.0	50.1		ng/L		125	60 - 135
9CI-PF3ONS	37.3	47.6		ng/L		128	60 - 135
11CI-PF3OUdS	37.7	45.6		ng/L		121	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	89		25 - 150
13C5 PFPeA	77		25 - 150
13C2 PFHxA	93		25 - 150
13C4 PFHpA	94		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	92		25 - 150
13C2 PFUnA	90		25 - 150
13C2 PFDoA	86		25 - 150
13C2 PFTeDA	77		25 - 150
13C2 PFHxDA	73		25 - 150
13C3 PFBS	80		25 - 150
18O2 PFHxS	90		25 - 150
13C4 PFOS	88		25 - 150
13C8 FOSA	100		10 - 150
d3-NMeFOSAA	79		25 - 150
d5-NEtFOSAA	80		25 - 150
d-N-MeFOSA-M	67		10 - 150
d-N-EtFOSA-M	67		10 - 150
d7-N-MeFOSE-M	80		10 - 150
d9-N-EtFOSE-M	74		10 - 150

QC Sample Results

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

Job ID: 500-214049-1

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

Lab Sample ID: LCS 320-576999/2-A
Matrix: Water
Analysis Batch: 577332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 576999

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	116		25 - 150
M2-6:2 FTS	110		25 - 150
M2-8:2 FTS	109		25 - 150
13C3 HFPO-DA	86		25 - 150
13C2 10:2 FTS	102		25 - 150

Lab Sample ID: LCSD 320-576999/3-A
Matrix: Water
Analysis Batch: 577395

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576999

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	47.9		ng/L		120	60 - 135	8	30	
Perfluoropentanoic acid (PFPeA)	40.0	49.2		ng/L		123	60 - 135	4	30	
Perfluorohexanoic acid (PFHxA)	40.0	46.3		ng/L		116	60 - 135	5	30	
Perfluoroheptanoic acid (PFHpA)	40.0	51.3		ng/L		128	60 - 135	3	30	
Perfluorooctanoic acid (PFOA)	40.0	46.8		ng/L		117	60 - 135	5	30	
Perfluorononanoic acid (PFNA)	40.0	50.1		ng/L		125	60 - 135	4	30	
Perfluorodecanoic acid (PFDA)	40.0	45.1		ng/L		113	60 - 135	1	30	
Perfluoroundecanoic acid (PFUnA)	40.0	53.6		ng/L		134	60 - 135	5	30	
Perfluorododecanoic acid (PFDoA)	40.0	48.8		ng/L		122	60 - 135	7	30	
Perfluorotridecanoic acid (PFTrDA)	40.0	46.7		ng/L		117	60 - 135	1	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	47.0		ng/L		118	60 - 135	2	30	
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	50.1		ng/L		125	60 - 135	8	30	
Perfluoro-n-octadecanoic acid (PFODA)	40.0	38.3		ng/L		96	60 - 135	10	30	
Perfluorobutanesulfonic acid (PFBS)	35.4	44.5		ng/L		126	60 - 135	1	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	46.9		ng/L		125	60 - 135	0	30	
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.7		ng/L		109	60 - 135	3	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	46.0		ng/L		121	60 - 135	6	30	
Perfluorooctanesulfonic acid (PFOS)	37.1	45.5		ng/L		123	60 - 135	6	30	
Perfluorononanesulfonic acid (PFNS)	38.4	48.3		ng/L		126	60 - 135	0	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	47.0		ng/L		122	60 - 135	6	30	
Perfluorododecanesulfonic acid (PFDoS)	38.7	48.0		ng/L		124	60 - 135	10	30	
Perfluorooctanesulfonamide (FOSA)	40.0	40.9		ng/L		102	60 - 135	4	30	
NEtFOSA	40.0	43.6		ng/L		109	60 - 135	0	30	
NMeFOSA	40.0	44.2		ng/L		111	60 - 135	1	30	
NMeFOSAA	40.0	51.0		ng/L		128	60 - 135	1	30	
NEtFOSAA	40.0	47.3		ng/L		118	60 - 135	3	30	
NMeFOSE	40.0	46.2		ng/L		115	60 - 135	3	30	

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QC Sample Results

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

Job ID: 500-214049-1

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

Lab Sample ID: LCSD 320-576999/3-A
Matrix: Water
Analysis Batch: 577395

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 576999

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NETFOSE	40.0	41.0		ng/L		102	60 - 135	4	30
4:2 FTS	37.4	42.7		ng/L		114	60 - 135	13	30
6:2 FTS	37.9	38.3		ng/L		101	60 - 135	3	30
8:2 FTS	38.3	47.2		ng/L		123	60 - 135	5	30
10:2 FTS	38.6	41.8		ng/L		108	60 - 135	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	47.3		ng/L		125	60 - 135	5	30
HFPO-DA (GenX)	40.0	50.5		ng/L		126	60 - 135	1	30
9CI-PF3ONS	37.3	44.5		ng/L		119	60 - 135	7	30
11CI-PF3OUdS	37.7	47.3		ng/L		126	60 - 135	4	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	87		25 - 150
13C5 PFPeA	84		25 - 150
13C2 PFHxA	92		25 - 150
13C4 PFHpA	90		25 - 150
13C4 PFOA	98		25 - 150
13C5 PFNA	97		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	92		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	85		25 - 150
13C2 PFHxDA	80		25 - 150
13C3 PFBS	87		25 - 150
18O2 PFHxS	100		25 - 150
13C4 PFOS	97		25 - 150
13C8 FOSA	108		10 - 150
d3-NMeFOSAA	94		25 - 150
d5-NEtFOSAA	103		25 - 150
d-N-MeFOSA-M	74		10 - 150
d-N-EtFOSA-M	76		10 - 150
d7-N-MeFOSE-M	80		10 - 150
d9-N-EtFOSE-M	80		10 - 150
M2-4:2 FTS	133		25 - 150
M2-6:2 FTS	132		25 - 150
M2-8:2 FTS	107		25 - 150
13C3 HFPO-DA	83		25 - 150
13C2 10:2 FTS	100		25 - 150

Lab Chronicle

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

Job ID: 500-214049-1

Client Sample ID: WW Outfall

Lab Sample ID: 500-214049-1

Date Collected: 03/23/22 09:10

Matrix: Water

Date Received: 03/24/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			576999	03/31/22 12:58	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	577332	04/01/22 18:09	RS1	TAL SAC

Client Sample ID: Well 6

Lab Sample ID: 500-214049-2

Date Collected: 03/23/22 09:18

Matrix: Water

Date Received: 03/24/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			576999	03/31/22 12:58	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	577332	04/01/22 18:19	RS1	TAL SAC

Client Sample ID: Well 14

Lab Sample ID: 500-214049-3

Date Collected: 03/23/22 09:25

Matrix: Water

Date Received: 03/24/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			576999	03/31/22 12:58	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	577332	04/01/22 18:29	RS1	TAL SAC

Client Sample ID: Well 9

Lab Sample ID: 500-214049-4

Date Collected: 03/23/22 09:34

Matrix: Water

Date Received: 03/24/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			576999	03/31/22 12:58	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	577332	04/01/22 18:39	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: 500-214049-1

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

Eurofins Sacramento
 880 Riverside Parkway
 West Sacramento CA 95605
 Phone: 916-373-5600 Fax: 916-372-1059

Chain of Custody Record

MKE 232  **eurofins**

Environment Testing
 America

Client Information		Sampler: <i>David Sadack</i>	Lab PM: Fredrick, Sandie	Camera Tracking No(s):	COC No: 500-99897-43338.2	
Client Contact: Ty Fadness		Phone: <i>715-839-6118</i>	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 2 of 2	
Company: City of Eau Claire Address: 1000 Ferry Street City: Eau Claire State, Zip: WI, 54703 Phone: 500-214049 COC		PWSID:		Job #: <i>500-214049</i>		
Due Date Requested: <i>Standard 4/1/22</i>		Analysis Requested				
TAT Requested (days): <i>10-Day TAT</i>		<small>PFAS, IDA, NH, PFAS, Extended List (See Analysis)</small> <small>Trace Number of samples</small>				
Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
PO #: 50220192-00 WO #:						
Project Name: PFAS Testing Site:		Project #: 50019745 SSOW:		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W- pH 4-5 L EDA Z other (specify) Other:		
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil/sed, BT=Trace, A=Air)	Special Instructions/Note
		Preservation Code				
<i>1</i>	Well Outfall	<i>3/23/2022</i>	<i>0910</i>	<i>G</i>	Water	<i>X</i>
<i>2</i>	Well 6	<i>3/23/2022</i>	<i>0918</i>	<i>G</i>	Water	<i>X</i>
<i>3</i>	Well 14	<i>3/23/2022</i>	<i>0925</i>	<i>G</i>	Water	<i>X</i>
<i>4</i>	Well 9	<i>3/23/2022</i>	<i>0934</i>	<i>G</i>	Water	<i>X</i>
					Water	
					Water	
					Water	
					Water	
					Water	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<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		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements				
Empty Kit Relinquished by: <i>David Sadack</i>		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: <i>3/23/2022/0943</i>	Company: <i>City of EC</i>	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Client Information Client Contact: Ty Fadden City: Eau Claire Address: 1000 Ferry Street State: WI, Zip: 54703 Phone: 50220192-00 Project #: 50019745 Site: PFAS Testing			Lab PM: Fredrick, Sandie E-Mail: sandra.fredrick@eurofinset.com State of Origin:			CCC No: 500-98697-43338.2 Page: Page 2 of 2 Job #:	
Due Date Requested: standed 4/1/22 TAT Requested (days): 10 - Day TAT Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No FC #: 50220192-00 WO #:			Analysis Requested				
Email: Tyler.Fadden@EauClaire.Wi.Gov Project Name: PFAS Testing			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:				
Sample Identification Well 6 Well 14 Well 9			Total Number of Containers:				
Sample Date 3/23/2022 3/23/2022 3/23/2022 3/23/2022			Special Instructions/Note:				
Sample Time 0910 0918 0925 0934			Special Instructions/Note:				
Sample Type (C=comp, G=grab) G G G G			Special Instructions/Note:				
Matrix (Water, S-solid, O-wastewater, BT-TISSUE, A-Air) Water Water Water Water Water Water Water Water			Special Instructions/Note:				
Field Filtered Sample (Yes or No)			Special Instructions/Note:				
Perform MS/MSD (Yes or No)			Special Instructions/Note:				
Field Filtered Sample (Yes or No)			Special Instructions/Note:				
PFC, IDA, VI - PFAS, Extended List (36 Analytes)			Special Instructions/Note:				
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)			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: David Fadden Relinquished by:			Method of Shipment:				
Date/Time: 3/23/2022 / 0943 Date/Time:			Date/Time:				
Date/Time: 4/1/22 Date/Time:			Date/Time:				
Date/Time: 1946692 Date/Time:			Date/Time:				
Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:				



Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-214049-1

Login Number: 214049

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: 500-214049-1

Login Number: 214049

List Number: 2

Creator: Her, David A

List Source: Eurofins Sacramento

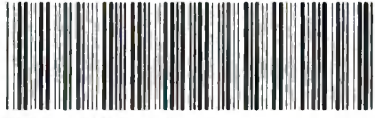
List Creation: 03/24/22 10:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1946692
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	1.7 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Environment Testing
TestAmerica

Sacramento
Sample Receiving Notes



500-214049 Field Sheet

Tracking #: 5632 2369 1348

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: L-10 Corr. Factor: (+/-) _____ °C

Ice Wet Gel _____ Other _____

Cooler Custody Seal: 1946692

Cooler ID: _____

Temp Observed: 1.7 °C Corrected: 1.7 °C
From: Temp Blank Sample

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: DK Date: 3/24/22

Unpacking/Labeling The Samples	Yes	No	NA
CnC is complete w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DK Date: 3/24/22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials: _____ Date: _____

Isotope Dilution Summary

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

Job ID: 500-214049-1

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)
500-214049-1	WW Outfall	80	78	92	95	92	86	90	87
500-214049-2	Well 6	75	79	92	93	93	85	87	84
500-214049-3	Well 14	72	78	87	87	89	84	85	84
500-214049-4	Well 9	75	79	88	89	92	85	84	82
LCS 320-576999/2-A	Lab Control Sample	89	77	93	94	95	93	92	90
LCSD 320-576999/3-A	Lab Control Sample Dup	87	84	92	90	98	97	93	92
MB 320-576999/1-A	Method Blank	83	82	93	89	93	88	91	91

		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)
500-214049-1	WW Outfall	77	68	69	78	88	79	94	71
500-214049-2	Well 6	81	69	67	78	82	81	96	72
500-214049-3	Well 14	72	62	65	74	82	78	91	70
500-214049-4	Well 9	73	58	63	75	85	79	92	67
LCS 320-576999/2-A	Lab Control Sample	86	77	73	80	90	88	100	79
LCSD 320-576999/3-A	Lab Control Sample Dup	92	85	80	87	100	97	108	94
MB 320-576999/1-A	Method Blank	82	76	70	78	88	88	102	78

		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)
500-214049-1	WW Outfall	75	64	62	68	67	113	108	104
500-214049-2	Well 6	83	67	65	71	71	109	104	104
500-214049-3	Well 14	76	59	55	61	61	106	96	95
500-214049-4	Well 9	72	58	56	64	60	105	89	100
LCS 320-576999/2-A	Lab Control Sample	80	67	67	80	74	116	110	109
LCSD 320-576999/3-A	Lab Control Sample Dup	103	74	76	80	80	133	132	107
MB 320-576999/1-A	Method Blank	80	71	70	78	80	112	108	113

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-214049-1	WW Outfall	87	99
500-214049-2	Well 6	84	100
500-214049-3	Well 14	80	89
500-214049-4	Well 9	81	91
LCS 320-576999/2-A	Lab Control Sample	86	102
LCSD 320-576999/3-A	Lab Control Sample Dup	83	100
MB 320-576999/1-A	Method Blank	81	103

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA

Isotope Dilution Summary

Job ID: 500-214049-1

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

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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