

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-214723-1  
Client Project/Site: PFAS Testing

**For:**

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

Attn: Ty Fadness



*Authorized for release by:  
4/18/2022 9:11:50 AM*

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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.*



# 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 . . . . .	28
Isotope Dilution Summary . . . . .	29

# Case Narrative

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

Job ID: 500-214723-1

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**Job ID: 500-214723-1**

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**Laboratory: Eurofins Chicago**

## Narrative

**Job Narrative**  
**500-214723-1**

### Comments

No additional comments.

### Receipt

The samples were received on 4/7/2022 9:45 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 2.0° C.

### LCMS

Method 537 (modified): The transition mass ratio for the indicated analyte was above the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. (ICB 320-579460/10)

No additional analytical or quality issues were noted, other than those described above or 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 320-579723. 3535\_PFC\_28D Aqueous

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: 500-214723-1

## Client Sample ID: WW Outfall

Lab Sample ID: 500-214723-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.4		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.6		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.7		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.9		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.1		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.3		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.2		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	46		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	1.2	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22		1.8	0.50	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: Well 6

Lab Sample ID: 500-214723-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.1		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.5		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.0	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.6		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.8		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	22		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.33	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.4		1.9	0.50	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: Well 14

Lab Sample ID: 500-214723-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.0		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.4		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.3		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.7		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)	4.2		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	4.8		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	33		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.53	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	11		1.8	0.50	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: Well 9

Lab Sample ID: 500-214723-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.1		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.5		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.4		1.8	0.78	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: 500-214723-1

**Client Sample ID: Well 9 (Continued)**

**Lab Sample ID: 500-214723-4**

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	5.5		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	6.4		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	46		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.71	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15		1.8	0.49	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: 500-214723-1

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

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

# Sample Summary

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

Job ID: 500-214723-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-214723-1	WW Outfall	Water	04/06/22 12:56	04/06/22 17:39
500-214723-2	Well 6	Water	04/06/22 13:02	04/06/22 17:39
500-214723-3	Well 14	Water	04/06/22 13:10	04/06/22 17:39
500-214723-4	Well 9	Water	04/06/22 13:15	04/06/22 17:39

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

# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: WW Outfall**

**Lab Sample ID: 500-214723-1**

Date Collected: 04/06/22 12:56

Matrix: Water

Date Received: 04/06/22 17:39

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.4		4.6	2.2	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluoropentanoic acid (PFPeA)	8.6		1.8	0.45	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorohexanoic acid (PFHxA)	7.7		1.8	0.53	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluoroheptanoic acid (PFHpA)	1.9		1.8	0.23	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorooctanoic acid (PFOA)	4.1		1.8	0.78	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorobutanesulfonic acid (PFBS)	5.3		1.8	0.18	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluoropentanesulfonic acid (PFPeS)	5.2		1.8	0.28	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorohexanesulfonic acid (PFHxS)	46		1.8	0.52	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluoroheptanesulfonic acid (PFHpS)	1.2 J		1.8	0.17	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorooctanesulfonic acid (PFOS)	22		1.8	0.50	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		04/13/22 05:15	04/14/22 13:23	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		04/13/22 05:15	04/14/22 13:23	1
NEtFOSA	<0.80		1.8	0.80	ng/L		04/13/22 05:15	04/14/22 13:23	1
NMeFOSA	<0.40		1.8	0.40	ng/L		04/13/22 05:15	04/14/22 13:23	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		04/13/22 05:15	04/14/22 13:23	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		04/13/22 05:15	04/14/22 13:23	1
NMeFOSE	<1.3		3.7	1.3	ng/L		04/13/22 05:15	04/14/22 13:23	1
NEtFOSE	<0.78		1.8	0.78	ng/L		04/13/22 05:15	04/14/22 13:23	1
4:2 FTS	<0.22		1.8	0.22	ng/L		04/13/22 05:15	04/14/22 13:23	1
6:2 FTS	<2.3		4.6	2.3	ng/L		04/13/22 05:15	04/14/22 13:23	1
8:2 FTS	<0.42		1.8	0.42	ng/L		04/13/22 05:15	04/14/22 13:23	1
10:2 FTS	<0.62		1.8	0.62	ng/L		04/13/22 05:15	04/14/22 13:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		04/13/22 05:15	04/14/22 13:23	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		04/13/22 05:15	04/14/22 13:23	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		04/13/22 05:15	04/14/22 13:23	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		04/13/22 05:15	04/14/22 13:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	112		25 - 150				04/13/22 05:15	04/14/22 13:23	1
13C5 PFPeA	91		25 - 150				04/13/22 05:15	04/14/22 13:23	1
13C2 PFHxA	98		25 - 150				04/13/22 05:15	04/14/22 13:23	1
13C4 PFHpA	102		25 - 150				04/13/22 05:15	04/14/22 13:23	1
13C4 PFOA	96		25 - 150				04/13/22 05:15	04/14/22 13:23	1

Eurofins Chicago



# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: WW Outfall**

**Lab Sample ID: 500-214723-1**

Date Collected: 04/06/22 12:56

Matrix: Water

Date Received: 04/06/22 17:39

**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	93		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C2 PFDA	104		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C2 PFUnA	86		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C2 PFDoA	90		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C2 PFTeDA	86		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C2 PFHxDA	99		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C3 PFBS	119		25 - 150	04/13/22 05:15	04/14/22 13:23	1
18O2 PFHxS	110		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C4 PFOS	97		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C8 FOSA	83		10 - 150	04/13/22 05:15	04/14/22 13:23	1
d3-NMeFOSAA	85		25 - 150	04/13/22 05:15	04/14/22 13:23	1
d5-NEtFOSAA	79		25 - 150	04/13/22 05:15	04/14/22 13:23	1
d-N-MeFOSA-M	71		10 - 150	04/13/22 05:15	04/14/22 13:23	1
d-N-EtFOSA-M	76		10 - 150	04/13/22 05:15	04/14/22 13:23	1
d7-N-MeFOSE-M	67		10 - 150	04/13/22 05:15	04/14/22 13:23	1
d9-N-EtFOSE-M	69		10 - 150	04/13/22 05:15	04/14/22 13:23	1
M2-4:2 FTS	101		25 - 150	04/13/22 05:15	04/14/22 13:23	1
M2-6:2 FTS	103		25 - 150	04/13/22 05:15	04/14/22 13:23	1
M2-8:2 FTS	104		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C3 HFPO-DA	100		25 - 150	04/13/22 05:15	04/14/22 13:23	1
13C2 10:2 FTS	93		25 - 150	04/13/22 05:15	04/14/22 13:23	1

# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: Well 6**  
**Date Collected: 04/06/22 13:02**  
**Date Received: 04/06/22 17:39**

**Lab Sample ID: 500-214723-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.1		4.6	2.2	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluoropentanoic acid (PFPeA)	2.5		1.9	0.45	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorohexanoic acid (PFHxA)	2.5		1.9	0.54	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluoroheptanoic acid (PFHpA)	1.0	J	1.9	0.23	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorooctanoic acid (PFOA)	2.6		1.9	0.79	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.9	0.82	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.9	0.87	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorobutanesulfonic acid (PFBS)	3.6		1.9	0.19	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluoropentanesulfonic acid (PFPeS)	3.8		1.9	0.28	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorohexanesulfonic acid (PFHxS)	22		1.9	0.53	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluoroheptanesulfonic acid (PFHpS)	0.33	J	1.9	0.18	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorooctanesulfonic acid (PFOS)	6.4		1.9	0.50	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		04/13/22 05:15	04/14/22 14:05	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		04/13/22 05:15	04/14/22 14:05	1
NEtFOSA	<0.81		1.9	0.81	ng/L		04/13/22 05:15	04/14/22 14:05	1
NMeFOSA	<0.40		1.9	0.40	ng/L		04/13/22 05:15	04/14/22 14:05	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		04/13/22 05:15	04/14/22 14:05	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		04/13/22 05:15	04/14/22 14:05	1
NMeFOSE	<1.3		3.7	1.3	ng/L		04/13/22 05:15	04/14/22 14:05	1
NEtFOSE	<0.79		1.9	0.79	ng/L		04/13/22 05:15	04/14/22 14:05	1
4:2 FTS	<0.22		1.9	0.22	ng/L		04/13/22 05:15	04/14/22 14:05	1
6:2 FTS	<2.3		4.6	2.3	ng/L		04/13/22 05:15	04/14/22 14:05	1
8:2 FTS	<0.43		1.9	0.43	ng/L		04/13/22 05:15	04/14/22 14:05	1
10:2 FTS	<0.62		1.9	0.62	ng/L		04/13/22 05:15	04/14/22 14:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		04/13/22 05:15	04/14/22 14:05	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		04/13/22 05:15	04/14/22 14:05	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		04/13/22 05:15	04/14/22 14:05	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		04/13/22 05:15	04/14/22 14:05	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	100		25 - 150				04/13/22 05:15	04/14/22 14:05	1
13C5 PFPeA	95		25 - 150				04/13/22 05:15	04/14/22 14:05	1
13C2 PFHxA	96		25 - 150				04/13/22 05:15	04/14/22 14:05	1
13C4 PFHpA	94		25 - 150				04/13/22 05:15	04/14/22 14:05	1
13C4 PFOA	96		25 - 150				04/13/22 05:15	04/14/22 14:05	1

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# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: Well 6**

**Lab Sample ID: 500-214723-2**

Date Collected: 04/06/22 13:02

Matrix: Water

Date Received: 04/06/22 17:39

**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	94		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C2 PFDA	96		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C2 PFUnA	84		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C2 PFDoA	86		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C2 PFTeDA	78		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C2 PFHxDA	87		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C3 PFBS	95		25 - 150	04/13/22 05:15	04/14/22 14:05	1
18O2 PFHxS	96		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C4 PFOS	94		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C8 FOSA	79		10 - 150	04/13/22 05:15	04/14/22 14:05	1
d3-NMeFOSAA	76		25 - 150	04/13/22 05:15	04/14/22 14:05	1
d5-NEtFOSAA	68		25 - 150	04/13/22 05:15	04/14/22 14:05	1
d-N-MeFOSA-M	58		10 - 150	04/13/22 05:15	04/14/22 14:05	1
d-N-EtFOSA-M	64		10 - 150	04/13/22 05:15	04/14/22 14:05	1
d7-N-MeFOSE-M	63		10 - 150	04/13/22 05:15	04/14/22 14:05	1
d9-N-EtFOSE-M	63		10 - 150	04/13/22 05:15	04/14/22 14:05	1
M2-4:2 FTS	107		25 - 150	04/13/22 05:15	04/14/22 14:05	1
M2-6:2 FTS	77		25 - 150	04/13/22 05:15	04/14/22 14:05	1
M2-8:2 FTS	100		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C3 HFPO-DA	91		25 - 150	04/13/22 05:15	04/14/22 14:05	1
13C2 10:2 FTS	88		25 - 150	04/13/22 05:15	04/14/22 14:05	1

# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: Well 14**

**Lab Sample ID: 500-214723-3**

**Date Collected: 04/06/22 13:10**

**Matrix: Water**

**Date Received: 04/06/22 17:39**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.0		4.6	2.2	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluoropentanoic acid (PFPeA)	3.4		1.8	0.45	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorohexanoic acid (PFHxA)	3.3		1.8	0.53	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.8	0.23	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorooctanoic acid (PFOA)	2.7		1.8	0.78	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorononanoic acid (PFNA)	0.27	J	1.8	0.25	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorobutanesulfonic acid (PFBS)	4.2		1.8	0.18	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluoropentanesulfonic acid (PFPeS)	4.8		1.8	0.28	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorohexanesulfonic acid (PFHxS)	33		1.8	0.52	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluoroheptanesulfonic acid (PFHpS)	0.53	J	1.8	0.17	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorooctanesulfonic acid (PFOS)	11		1.8	0.50	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		04/13/22 05:15	04/14/22 14:15	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		04/13/22 05:15	04/14/22 14:15	1
NEtFOSA	<0.80		1.8	0.80	ng/L		04/13/22 05:15	04/14/22 14:15	1
NMeFOSA	<0.39		1.8	0.39	ng/L		04/13/22 05:15	04/14/22 14:15	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		04/13/22 05:15	04/14/22 14:15	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		04/13/22 05:15	04/14/22 14:15	1
NMeFOSE	<1.3		3.7	1.3	ng/L		04/13/22 05:15	04/14/22 14:15	1
NEtFOSE	<0.78		1.8	0.78	ng/L		04/13/22 05:15	04/14/22 14:15	1
4:2 FTS	<0.22		1.8	0.22	ng/L		04/13/22 05:15	04/14/22 14:15	1
6:2 FTS	<2.3		4.6	2.3	ng/L		04/13/22 05:15	04/14/22 14:15	1
8:2 FTS	<0.42		1.8	0.42	ng/L		04/13/22 05:15	04/14/22 14:15	1
10:2 FTS	<0.61		1.8	0.61	ng/L		04/13/22 05:15	04/14/22 14:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		04/13/22 05:15	04/14/22 14:15	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		04/13/22 05:15	04/14/22 14:15	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		04/13/22 05:15	04/14/22 14:15	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		04/13/22 05:15	04/14/22 14:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				04/13/22 05:15	04/14/22 14:15	1
13C5 PFPeA	97		25 - 150				04/13/22 05:15	04/14/22 14:15	1
13C2 PFHxA	93		25 - 150				04/13/22 05:15	04/14/22 14:15	1
13C4 PFHpA	93		25 - 150				04/13/22 05:15	04/14/22 14:15	1
13C4 PFOA	91		25 - 150				04/13/22 05:15	04/14/22 14:15	1

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# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: Well 14**

**Lab Sample ID: 500-214723-3**

**Date Collected: 04/06/22 13:10**

**Matrix: Water**

**Date Received: 04/06/22 17:39**

**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	87		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C2 PFDA	89		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C2 PFUnA	79		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C2 PFDoA	82		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C2 PFTeDA	75		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C2 PFHxDA	97		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C3 PFBS	89		25 - 150	04/13/22 05:15	04/14/22 14:15	1
18O2 PFHxS	91		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C4 PFOS	91		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C8 FOSA	76		10 - 150	04/13/22 05:15	04/14/22 14:15	1
d3-NMeFOSAA	81		25 - 150	04/13/22 05:15	04/14/22 14:15	1
d5-NEtFOSAA	71		25 - 150	04/13/22 05:15	04/14/22 14:15	1
d-N-MeFOSA-M	59		10 - 150	04/13/22 05:15	04/14/22 14:15	1
d-N-EtFOSA-M	63		10 - 150	04/13/22 05:15	04/14/22 14:15	1
d7-N-MeFOSE-M	62		10 - 150	04/13/22 05:15	04/14/22 14:15	1
d9-N-EtFOSE-M	56		10 - 150	04/13/22 05:15	04/14/22 14:15	1
M2-4:2 FTS	110		25 - 150	04/13/22 05:15	04/14/22 14:15	1
M2-6:2 FTS	99		25 - 150	04/13/22 05:15	04/14/22 14:15	1
M2-8:2 FTS	93		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C3 HFPO-DA	86		25 - 150	04/13/22 05:15	04/14/22 14:15	1
13C2 10:2 FTS	83		25 - 150	04/13/22 05:15	04/14/22 14:15	1

# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: Well 9**  
**Date Collected: 04/06/22 13:15**  
**Date Received: 04/06/22 17:39**

**Lab Sample ID: 500-214723-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11		4.6	2.2	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluoropentanoic acid (PFPeA)	4.1		1.8	0.45	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorohexanoic acid (PFHxA)	4.5		1.8	0.53	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluoroheptanoic acid (PFHpA)	2.0		1.8	0.23	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorooctanoic acid (PFOA)	3.4		1.8	0.78	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorobutanesulfonic acid (PFBS)	5.5		1.8	0.18	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluoropentanesulfonic acid (PFPeS)	6.4		1.8	0.27	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorohexanesulfonic acid (PFHxS)	46		1.8	0.52	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluoroheptanesulfonic acid (PFHpS)	0.71 J		1.8	0.17	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorooctanesulfonic acid (PFOS)	15		1.8	0.49	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		04/13/22 05:15	04/14/22 14:25	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		04/13/22 05:15	04/14/22 14:25	1
NEtFOSA	<0.80		1.8	0.80	ng/L		04/13/22 05:15	04/14/22 14:25	1
NMeFOSA	<0.39		1.8	0.39	ng/L		04/13/22 05:15	04/14/22 14:25	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		04/13/22 05:15	04/14/22 14:25	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		04/13/22 05:15	04/14/22 14:25	1
NMeFOSE	<1.3		3.7	1.3	ng/L		04/13/22 05:15	04/14/22 14:25	1
NEtFOSE	<0.78		1.8	0.78	ng/L		04/13/22 05:15	04/14/22 14:25	1
4:2 FTS	<0.22		1.8	0.22	ng/L		04/13/22 05:15	04/14/22 14:25	1
6:2 FTS	<2.3		4.6	2.3	ng/L		04/13/22 05:15	04/14/22 14:25	1
8:2 FTS	<0.42		1.8	0.42	ng/L		04/13/22 05:15	04/14/22 14:25	1
10:2 FTS	<0.61		1.8	0.61	ng/L		04/13/22 05:15	04/14/22 14:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		04/13/22 05:15	04/14/22 14:25	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		04/13/22 05:15	04/14/22 14:25	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		04/13/22 05:15	04/14/22 14:25	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		04/13/22 05:15	04/14/22 14:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	104		25 - 150				04/13/22 05:15	04/14/22 14:25	1
13C5 PFPeA	96		25 - 150				04/13/22 05:15	04/14/22 14:25	1
13C2 PFHxA	101		25 - 150				04/13/22 05:15	04/14/22 14:25	1
13C4 PFHpA	97		25 - 150				04/13/22 05:15	04/14/22 14:25	1
13C4 PFOA	96		25 - 150				04/13/22 05:15	04/14/22 14:25	1

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# Client Sample Results

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

Job ID: 500-214723-1

**Client Sample ID: Well 9**

**Lab Sample ID: 500-214723-4**

**Date Collected: 04/06/22 13:15**

**Matrix: Water**

**Date Received: 04/06/22 17:39**

**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	98		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C2 PFDA	93		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C2 PFUnA	83		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C2 PFDoA	87		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C2 PFTeDA	83		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C2 PFHxDA	93		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C3 PFBS	108		25 - 150	04/13/22 05:15	04/14/22 14:25	1
18O2 PFHxS	100		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C4 PFOS	96		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C8 FOSA	81		10 - 150	04/13/22 05:15	04/14/22 14:25	1
d3-NMeFOSAA	81		25 - 150	04/13/22 05:15	04/14/22 14:25	1
d5-NEtFOSAA	75		25 - 150	04/13/22 05:15	04/14/22 14:25	1
d-N-MeFOSA-M	66		10 - 150	04/13/22 05:15	04/14/22 14:25	1
d-N-EtFOSA-M	72		10 - 150	04/13/22 05:15	04/14/22 14:25	1
d7-N-MeFOSE-M	64		10 - 150	04/13/22 05:15	04/14/22 14:25	1
d9-N-EtFOSE-M	61		10 - 150	04/13/22 05:15	04/14/22 14:25	1
M2-4:2 FTS	95		25 - 150	04/13/22 05:15	04/14/22 14:25	1
M2-6:2 FTS	94		25 - 150	04/13/22 05:15	04/14/22 14:25	1
M2-8:2 FTS	102		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C3 HFPO-DA	99		25 - 150	04/13/22 05:15	04/14/22 14:25	1
13C2 10:2 FTS	90		25 - 150	04/13/22 05:15	04/14/22 14:25	1

# Definitions/Glossary

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

Job ID: 500-214723-1

## 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: 500-214723-1

## LCMS

### Prep Batch: 579723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214723-1	WW Outfall	Total/NA	Water	3535	
500-214723-2	Well 6	Total/NA	Water	3535	
500-214723-3	Well 14	Total/NA	Water	3535	
500-214723-4	Well 9	Total/NA	Water	3535	
MB 320-579723/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-579723/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-579723/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 580090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214723-1	WW Outfall	Total/NA	Water	537 (modified)	579723
500-214723-2	Well 6	Total/NA	Water	537 (modified)	579723
500-214723-3	Well 14	Total/NA	Water	537 (modified)	579723
500-214723-4	Well 9	Total/NA	Water	537 (modified)	579723
MB 320-579723/1-A	Method Blank	Total/NA	Water	537 (modified)	579723
LCS 320-579723/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	579723
LCSD 320-579723/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	579723



# QC Sample Results

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

Job ID: 500-214723-1

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

**Lab Sample ID: MB 320-579723/1-A**  
**Matrix: Water**  
**Analysis Batch: 580090**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 579723**

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		04/13/22 05:15	04/14/22 11:49	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		04/13/22 05:15	04/14/22 11:49	1
NEtFOSA	<0.87		2.0	0.87	ng/L		04/13/22 05:15	04/14/22 11:49	1
NMeFOSA	<0.43		2.0	0.43	ng/L		04/13/22 05:15	04/14/22 11:49	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		04/13/22 05:15	04/14/22 11:49	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		04/13/22 05:15	04/14/22 11:49	1
NMeFOSE	<1.4		4.0	1.4	ng/L		04/13/22 05:15	04/14/22 11:49	1
NEtFOSE	<0.85		2.0	0.85	ng/L		04/13/22 05:15	04/14/22 11:49	1
4:2 FTS	<0.24		2.0	0.24	ng/L		04/13/22 05:15	04/14/22 11:49	1
6:2 FTS	<2.5		5.0	2.5	ng/L		04/13/22 05:15	04/14/22 11:49	1
8:2 FTS	<0.46		2.0	0.46	ng/L		04/13/22 05:15	04/14/22 11:49	1
10:2 FTS	<0.67		2.0	0.67	ng/L		04/13/22 05:15	04/14/22 11:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		04/13/22 05:15	04/14/22 11:49	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		04/13/22 05:15	04/14/22 11:49	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		04/13/22 05:15	04/14/22 11:49	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		04/13/22 05:15	04/14/22 11:49	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	104		25 - 150	04/13/22 05:15	04/14/22 11:49	1			
13C5 PFPeA	93		25 - 150	04/13/22 05:15	04/14/22 11:49	1			
13C2 PFHxA	100		25 - 150	04/13/22 05:15	04/14/22 11:49	1			
13C4 PFHpA	96		25 - 150	04/13/22 05:15	04/14/22 11:49	1			
13C4 PFOA	95		25 - 150	04/13/22 05:15	04/14/22 11:49	1			
13C5 PFNA	90		25 - 150	04/13/22 05:15	04/14/22 11:49	1			

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# QC Sample Results

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

Job ID: 500-214723-1

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

**Lab Sample ID: MB 320-579723/1-A**  
**Matrix: Water**  
**Analysis Batch: 580090**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 579723**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	97		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C2 PFUnA	90		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C2 PFDoA	85		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C2 PFTeDA	86		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C2 PFHxDA	98		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C3 PFBS	119		25 - 150	04/13/22 05:15	04/14/22 11:49	1
18O2 PFHxS	101		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C4 PFOS	93		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C8 FOSA	74		10 - 150	04/13/22 05:15	04/14/22 11:49	1
d3-NMeFOSAA	84		25 - 150	04/13/22 05:15	04/14/22 11:49	1
d5-NEtFOSAA	78		25 - 150	04/13/22 05:15	04/14/22 11:49	1
d-N-MeFOSA-M	70		10 - 150	04/13/22 05:15	04/14/22 11:49	1
d-N-EtFOSA-M	70		10 - 150	04/13/22 05:15	04/14/22 11:49	1
d7-N-MeFOSE-M	71		10 - 150	04/13/22 05:15	04/14/22 11:49	1
d9-N-EtFOSE-M	73		10 - 150	04/13/22 05:15	04/14/22 11:49	1
M2-4:2 FTS	102		25 - 150	04/13/22 05:15	04/14/22 11:49	1
M2-6:2 FTS	101		25 - 150	04/13/22 05:15	04/14/22 11:49	1
M2-8:2 FTS	105		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C3 HFPO-DA	91		25 - 150	04/13/22 05:15	04/14/22 11:49	1
13C2 10:2 FTS	90		25 - 150	04/13/22 05:15	04/14/22 11:49	1

**Lab Sample ID: LCS 320-579723/2-A**  
**Matrix: Water**  
**Analysis Batch: 580090**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 579723**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Perfluoropentanoic acid (PFPeA)	40.0	43.4		ng/L		108	60 - 135	
Perfluorohexanoic acid (PFHxA)	40.0	38.0		ng/L		95	60 - 135	
Perfluoroheptanoic acid (PFHpA)	40.0	44.3		ng/L		111	60 - 135	
Perfluorooctanoic acid (PFOA)	40.0	41.0		ng/L		102	60 - 135	
Perfluorononanoic acid (PFNA)	40.0	40.8		ng/L		102	60 - 135	
Perfluorodecanoic acid (PFDA)	40.0	39.9		ng/L		100	60 - 135	
Perfluoroundecanoic acid (PFUnA)	40.0	40.6		ng/L		101	60 - 135	
Perfluorododecanoic acid (PFDoA)	40.0	37.9		ng/L		95	60 - 135	
Perfluorotridecanoic acid (PFTTrDA)	40.0	38.1		ng/L		95	60 - 135	
Perfluorotetradecanoic acid (PFTeA)	40.0	39.5		ng/L		99	60 - 135	
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	40.0		ng/L		100	60 - 135	
Perfluoro-n-octadecanoic acid (PFODA)	40.0	33.3		ng/L		83	60 - 135	
Perfluorobutanesulfonic acid (PFBS)	35.4	37.9		ng/L		107	60 - 135	
Perfluoropentanesulfonic acid (PFPeS)	37.5	38.4		ng/L		102	60 - 135	
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.9		ng/L		99	60 - 135	

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# QC Sample Results

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

Job ID: 500-214723-1

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

**Lab Sample ID: LCS 320-579723/2-A**  
**Matrix: Water**  
**Analysis Batch: 580090**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 579723**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.1	37.8		ng/L		99	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	36.9		ng/L		99	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	36.9		ng/L		96	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	35.9		ng/L		93	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.9		ng/L		98	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	42.9		ng/L		107	60 - 135
NEtFOSA	40.0	42.2		ng/L		105	60 - 135
NMeFOSA	40.0	41.2		ng/L		103	60 - 135
NMeFOSAA	40.0	39.6		ng/L		99	60 - 135
NEtFOSAA	40.0	43.8		ng/L		110	60 - 135
NMeFOSE	40.0	41.7		ng/L		104	60 - 135
NEtFOSE	40.0	44.4		ng/L		111	60 - 135
4:2 FTS	37.4	42.3		ng/L		113	60 - 135
6:2 FTS	37.9	39.3		ng/L		104	60 - 135
8:2 FTS	38.3	39.2		ng/L		102	60 - 135
10:2 FTS	38.6	39.7		ng/L		103	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	36.0		ng/L		96	60 - 135
HFPO-DA (GenX)	40.0	42.3		ng/L		106	60 - 135
9CI-PF3ONS	37.3	35.0		ng/L		94	60 - 135
11CI-PF3OUdS	37.7	33.2		ng/L		88	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	108		25 - 150
13C5 PFPeA	90		25 - 150
13C2 PFHxA	104		25 - 150
13C4 PFHpA	90		25 - 150
13C4 PFOA	94		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	104		25 - 150
13C2 PFUnA	91		25 - 150
13C2 PFDoA	95		25 - 150
13C2 PFTeDA	87		25 - 150
13C2 PFHxDA	100		25 - 150
13C3 PFBS	105		25 - 150
18O2 PFHxS	103		25 - 150
13C4 PFOS	102		25 - 150
13C8 FOSA	82		10 - 150
d3-NMeFOSAA	89		25 - 150
d5-NEtFOSAA	83		25 - 150
d-N-MeFOSA-M	72		10 - 150
d-N-EtFOSA-M	78		10 - 150
d7-N-MeFOSE-M	75		10 - 150
d9-N-EtFOSE-M	72		10 - 150

# QC Sample Results

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

Job ID: 500-214723-1

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

**Lab Sample ID: LCS 320-579723/2-A**  
**Matrix: Water**  
**Analysis Batch: 580090**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 579723**

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	102		25 - 150
M2-6:2 FTS	108		25 - 150
M2-8:2 FTS	101		25 - 150
13C3 HFPO-DA	87		25 - 150
13C2 10:2 FTS	100		25 - 150

**Lab Sample ID: LCSD 320-579723/3-A**  
**Matrix: Water**  
**Analysis Batch: 580090**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 579723**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Perfluorobutanoic acid (PFBA)	40.0	43.0		ng/L		107	60 - 135	0	30	
Perfluoropentanoic acid (PFPeA)	40.0	45.2		ng/L		113	60 - 135	4	30	
Perfluorohexanoic acid (PFHxA)	40.0	40.6		ng/L		102	60 - 135	7	30	
Perfluoroheptanoic acid (PFHpA)	40.0	40.0		ng/L		100	60 - 135	10	30	
Perfluorooctanoic acid (PFOA)	40.0	39.3		ng/L		98	60 - 135	4	30	
Perfluorononanoic acid (PFNA)	40.0	42.5		ng/L		106	60 - 135	4	30	
Perfluorodecanoic acid (PFDA)	40.0	41.3		ng/L		103	60 - 135	4	30	
Perfluoroundecanoic acid (PFUnA)	40.0	41.7		ng/L		104	60 - 135	3	30	
Perfluorododecanoic acid (PFDoA)	40.0	37.8		ng/L		95	60 - 135	0	30	
Perfluorotridecanoic acid (PFTrDA)	40.0	36.7		ng/L		92	60 - 135	4	30	
Perfluorotetradecanoic acid (PFTeA)	40.0	44.1		ng/L		110	60 - 135	11	30	
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	39.9		ng/L		100	60 - 135	0	30	
Perfluoro-n-octadecanoic acid (PFODA)	40.0	31.0		ng/L		77	60 - 135	7	30	
Perfluorobutanesulfonic acid (PFBS)	35.4	36.9		ng/L		104	60 - 135	3	30	
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.9		ng/L		98	60 - 135	4	30	
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.7		ng/L		106	60 - 135	7	30	
Perfluoroheptanesulfonic acid (PFHpS)	38.1	42.5		ng/L		112	60 - 135	12	30	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.4		ng/L		101	60 - 135	1	30	
Perfluorononanesulfonic acid (PFNS)	38.4	39.3		ng/L		102	60 - 135	6	30	
Perfluorodecanesulfonic acid (PFDS)	38.6	36.2		ng/L		94	60 - 135	1	30	
Perfluorododecanesulfonic acid (PFDoS)	38.7	39.4		ng/L		102	60 - 135	4	30	
Perfluorooctanesulfonamide (FOSA)	40.0	46.1		ng/L		115	60 - 135	7	30	
NEtFOSA	40.0	43.6		ng/L		109	60 - 135	3	30	
NMeFOSA	40.0	42.3		ng/L		106	60 - 135	3	30	
NMeFOSAA	40.0	36.5		ng/L		91	60 - 135	8	30	
NEtFOSAA	40.0	42.1		ng/L		105	60 - 135	4	30	
NMeFOSE	40.0	38.7		ng/L		97	60 - 135	7	30	

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# QC Sample Results

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

Job ID: 500-214723-1

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

**Lab Sample ID: LCSD 320-579723/3-A**  
**Matrix: Water**  
**Analysis Batch: 580090**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 579723**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NETFOSE	40.0	43.2		ng/L		108	60 - 135	3	30
4:2 FTS	37.4	33.4		ng/L		89	60 - 135	24	30
6:2 FTS	37.9	36.7		ng/L		97	60 - 135	7	30
8:2 FTS	38.3	37.1		ng/L		97	60 - 135	5	30
10:2 FTS	38.6	41.1		ng/L		106	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	34.7		ng/L		92	60 - 135	4	30
HFPO-DA (GenX)	40.0	39.8		ng/L		99	60 - 135	6	30
9CI-PF3ONS	37.3	34.2		ng/L		92	60 - 135	2	30
11CI-PF3OUdS	37.7	34.6		ng/L		92	60 - 135	4	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	106		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	102		25 - 150
13C4 PFOA	101		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	93		25 - 150
13C2 PFDoA	99		25 - 150
13C2 PFTeDA	91		25 - 150
13C2 PFHxDA	108		25 - 150
13C3 PFBS	105		25 - 150
18O2 PFHxS	98		25 - 150
13C4 PFOS	103		25 - 150
13C8 FOSA	80		10 - 150
d3-NMeFOSAA	93		25 - 150
d5-NEtFOSAA	85		25 - 150
d-N-MeFOSA-M	71		10 - 150
d-N-EtFOSA-M	73		10 - 150
d7-N-MeFOSE-M	76		10 - 150
d9-N-EtFOSE-M	74		10 - 150
M2-4:2 FTS	106		25 - 150
M2-6:2 FTS	113		25 - 150
M2-8:2 FTS	107		25 - 150
13C3 HFPO-DA	90		25 - 150
13C2 10:2 FTS	95		25 - 150

# Lab Chronicle

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

Job ID: 500-214723-1

## Client Sample ID: WW Outfall

Lab Sample ID: 500-214723-1

Date Collected: 04/06/22 12:56

Matrix: Water

Date Received: 04/06/22 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			579723	04/13/22 05:15	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1	580090	04/14/22 13:23	S1M	TAL SAC

## Client Sample ID: Well 6

Lab Sample ID: 500-214723-2

Date Collected: 04/06/22 13:02

Matrix: Water

Date Received: 04/06/22 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			579723	04/13/22 05:15	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1	580090	04/14/22 14:05	S1M	TAL SAC

## Client Sample ID: Well 14

Lab Sample ID: 500-214723-3

Date Collected: 04/06/22 13:10

Matrix: Water

Date Received: 04/06/22 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			579723	04/13/22 05:15	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1	580090	04/14/22 14:15	S1M	TAL SAC

## Client Sample ID: Well 9

Lab Sample ID: 500-214723-4

Date Collected: 04/06/22 13:15

Matrix: Water

Date Received: 04/06/22 17:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			579723	04/13/22 05:15	HK	TAL SAC
Total/NA	Analysis	537 (modified)		1	580090	04/14/22 14:25	S1M	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: 500-214723-1

## 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 TestAmerica, Sacramento**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <b>Tyler Fadness</b>		Lab PM: <b>Fredrick, Sandle</b>		Carrier Tracking Note(s):		COC No: <b>320-45350-10138.1</b>			
Client Contact: <b>Ty Fadness</b>		Phone: <b>715-839-6121</b>		E-Mail: <b>sandra.fredrick@eurofinset.com</b>		State of Origin:		Page: <b>Page 1 of 1</b>			
Company: <b>City of Eau Claire</b>		PWSID:		<b>Analysis Requested</b>						Job #: <b>500-214723</b>	
Address: <b>203 S Farwell</b>		Due Date Requested: <b>4/15/22</b>		TAT Requested (days): <b>1 STANDARD</b>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: <b>50210879-00</b>		Preservation Codes: A - HCL                      M - Hexane B - NaOH                    N - None C - Zn Acetate              O - AsNaO2 D - Nitric Acid              P - Na2CO3 E - NaHSO4                 Q - Na2SO3 F - MeOH                    R - Na2S2O3 G - Amchlor                S - H2SO4 H - Ascorbic Acid          T - TSP Dodecylhydrate I - Ice                         U - Acetone J - DI Water                 V - MCAA K - EDTA                    W - pH 4.5 L - EDA                      Z - other (specify)	
Email: <b>Tyler.Fadness@EauClaireWi.Gov</b>		Project Name: <b>PFAS Testing</b>		Project #: <b>32012617</b>		SSOW#:		Other:		Total Number of Containers:	
Site:		500-214723 COC		Field Filtered (Sample & Res of No) Perform MS/MSD (Yes or No) PFC_IDA - PFAS, Extended List (38 Analytes) PFC_IDA_WI - PFAS, Extended List (38 Analytes)							
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, Q=soil/sediment, BT=BIOSOL, A=Air)	Field Filtered (Sample & Res of No)		Perform MS/MSD (Yes or No)		PFC_IDA - PFAS, Extended List (38 Analytes)	
				Preservation Code:						Special Instructions/Note:	
1 2 3 4		4/6/22	1256	G	Water	X					
		4/6/22	1302	G	Water	X					
		4/6/22	1310	G	Water	X					
		4/6/22	1315	G	Water	X					
					Water						
					Water						
					Water						
					Water						
					Water						
<b>Possible Hazard Identification</b>		<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		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>							
Deliverable Requested I, II III IV, Other (specify)				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Empty Kit Relinquished by		Date:		Time:		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: <b>4/6/22 1345</b>		Company: <b>CITY OF EC</b>		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 type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:							

Ver 06/08/2021





# Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-214723-1

**Login Number: 214723**

**List Number: 2**

**Creator: Her, David A**

**List Source: Eurofins Sacramento**

**List Creation: 04/07/22 11:05 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
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	2.0 c
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.	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



500-214723 Field Sheet

Tracking #:

5632 2369 1350

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-09 Corr. Factor: (+/-) 0 °C

Ice  Wet  Gel \_\_\_\_\_ Other \_\_\_\_\_

Cooler Custody Seal: \_\_\_\_\_

Cooler ID: \_\_\_\_\_

Temp Observed: 2.0 °C Corrected: 2.0 °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: NC Date: 4/7/22

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 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: DL Date: 4/7/22

Notes: \_\_\_\_\_

Trizma Lot #(s): \_\_\_\_\_

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

Initials: DL Date: 4/7/22

# Isotope Dilution Summary

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

Job ID: 500-214723-1

## 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)
500-214723-1	WW Outfall	112	91	98	102	96	93	104	86
500-214723-2	Well 6	100	95	96	94	96	94	96	84
500-214723-3	Well 14	99	97	93	93	91	87	89	79
500-214723-4	Well 9	104	96	101	97	96	98	93	83
LCS 320-579723/2-A	Lab Control Sample	108	90	104	90	94	96	104	91
LCSD 320-579723/3-A	Lab Control Sample Dup	106	100	97	102	101	93	99	93
MB 320-579723/1-A	Method Blank	104	93	100	96	95	90	97	90

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-214723-1	WW Outfall	90	86	99	119	110	97	83	85
500-214723-2	Well 6	86	78	87	95	96	94	79	76
500-214723-3	Well 14	82	75	97	89	91	91	76	81
500-214723-4	Well 9	87	83	93	108	100	96	81	81
LCS 320-579723/2-A	Lab Control Sample	95	87	100	105	103	102	82	89
LCSD 320-579723/3-A	Lab Control Sample Dup	99	91	108	105	98	103	80	93
MB 320-579723/1-A	Method Blank	85	86	98	119	101	93	74	84

		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)
500-214723-1	WW Outfall	79	71	76	67	69	101	103	104
500-214723-2	Well 6	68	58	64	63	63	107	77	100
500-214723-3	Well 14	71	59	63	62	56	110	99	93
500-214723-4	Well 9	75	66	72	64	61	95	94	102
LCS 320-579723/2-A	Lab Control Sample	83	72	78	75	72	102	108	101
LCSD 320-579723/3-A	Lab Control Sample Dup	85	71	73	76	74	106	113	107
MB 320-579723/1-A	Method Blank	78	70	70	71	73	102	101	105

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-214723-1	WW Outfall	100	93
500-214723-2	Well 6	91	88
500-214723-3	Well 14	86	83
500-214723-4	Well 9	99	90
LCS 320-579723/2-A	Lab Control Sample	87	100
LCSD 320-579723/3-A	Lab Control Sample Dup	90	95
MB 320-579723/1-A	Method Blank	91	90

**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
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA

# Isotope Dilution Summary

Job ID: 500-214723-1

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

- 1
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