

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-212466-1  
Client Project/Site: PFAS Testing

**For:**

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

Attn: Ty Fadness



*Authorized for release by:  
2/21/2022 3:16:06 PM*

Sandie Fredrick, Project Manager II  
(920)261-1660  
[sandra.fredrick@eurofinset.com](mailto:sandra.fredrick@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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.*

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Detection Summary . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	11
QC Association . . . . .	12
QC Sample Results . . . . .	13
Chronicle . . . . .	18
Certification Summary . . . . .	19
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	22
Field Data Sheets . . . . .	24
Isotope Dilution Summary . . . . .	25

# Case Narrative

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

Job ID: 500-212466-1

---

**Job ID: 500-212466-1**

---

**Laboratory: Eurofins Chicago**

## Narrative

**Job Narrative  
500-212466-1**

## Comments

No additional comments.

## Receipt

The samples were received on 2/17/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

## LCMS

Method 537 (modified): A "C" flag is applied and then the following NCM is written. The transition mass ratio for the indicated analyte was below the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. Entry Point-Line 1 (500-212466-1)

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

## Organic Prep

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

# Detection Summary

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

Job ID: 500-212466-1

## Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-212466-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.3		4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.5	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.69	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.9		1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.42	J	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.1		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.8		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	14		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	J C	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.7		1.7	0.46	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: EP-Field Blank

Lab Sample ID: 500-212466-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

# Method Summary

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

Job ID: 500-212466-1

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: 500-212466-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212466-1	Entry Point-Line 1	Water	02/16/22 14:26	02/17/22 09:35
500-212466-2	EP-Field Blank	Water	02/16/22 14:28	02/17/22 09:35

- 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: 500-212466-1

**Client Sample ID: Entry Point-Line 1**

**Lab Sample ID: 500-212466-1**

Date Collected: 02/16/22 14:26

Matrix: Water

Date Received: 02/17/22 09:35

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.3		4.3	2.1	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluoropentanoic acid (PFPeA)	1.5	J	1.7	0.42	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorohexanoic acid (PFHxA)	2.0		1.7	0.50	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluoroheptanoic acid (PFHpA)	0.69	J	1.7	0.21	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorooctanoic acid (PFOA)	1.9		1.7	0.73	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorononanoic acid (PFNA)	0.42	J	1.7	0.23	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorobutanesulfonic acid (PFBS)	3.1		1.7	0.17	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluoropentanesulfonic acid (PFPeS)	2.8		1.7	0.26	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorohexanesulfonic acid (PFHxS)	14		1.7	0.49	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	J C	1.7	0.16	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorooctanesulfonic acid (PFOS)	5.7		1.7	0.46	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		02/17/22 11:31	02/20/22 16:42	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		02/17/22 11:31	02/20/22 16:42	1
NEtFOSA	<0.75		1.7	0.75	ng/L		02/17/22 11:31	02/20/22 16:42	1
NMeFOSA	<0.37		1.7	0.37	ng/L		02/17/22 11:31	02/20/22 16:42	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		02/17/22 11:31	02/20/22 16:42	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		02/17/22 11:31	02/20/22 16:42	1
NMeFOSE	<1.2		3.4	1.2	ng/L		02/17/22 11:31	02/20/22 16:42	1
NEtFOSE	<0.73		1.7	0.73	ng/L		02/17/22 11:31	02/20/22 16:42	1
4:2 FTS	<0.21		1.7	0.21	ng/L		02/17/22 11:31	02/20/22 16:42	1
6:2 FTS	<2.1		4.3	2.1	ng/L		02/17/22 11:31	02/20/22 16:42	1
8:2 FTS	<0.40		1.7	0.40	ng/L		02/17/22 11:31	02/20/22 16:42	1
10:2 FTS	<0.58		1.7	0.58	ng/L		02/17/22 11:31	02/20/22 16:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		02/17/22 11:31	02/20/22 16:42	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		02/17/22 11:31	02/20/22 16:42	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		02/17/22 11:31	02/20/22 16:42	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		02/17/22 11:31	02/20/22 16:42	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	86		25 - 150				02/17/22 11:31	02/20/22 16:42	1
13C5 PFPeA	110		25 - 150				02/17/22 11:31	02/20/22 16:42	1
13C2 PFHxA	108		25 - 150				02/17/22 11:31	02/20/22 16:42	1
13C4 PFHpA	98		25 - 150				02/17/22 11:31	02/20/22 16:42	1
13C4 PFOA	103		25 - 150				02/17/22 11:31	02/20/22 16:42	1

Eurofins Chicago

# Client Sample Results

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

Job ID: 500-212466-1

**Client Sample ID: Entry Point-Line 1**

**Lab Sample ID: 500-212466-1**

Date Collected: 02/16/22 14:26

Matrix: Water

Date Received: 02/17/22 09:35

**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	108		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C2 PFDA	113		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C2 PFUnA	107		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C2 PFDoA	94		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C2 PFTeDA	89		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C2 PFHxDA	117		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C3 PFBS	110		25 - 150	02/17/22 11:31	02/20/22 16:42	1
18O2 PFHxS	103		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C4 PFOS	108		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C8 FOSA	103		10 - 150	02/17/22 11:31	02/20/22 16:42	1
d3-NMeFOSAA	112		25 - 150	02/17/22 11:31	02/20/22 16:42	1
d5-NEtFOSAA	119		25 - 150	02/17/22 11:31	02/20/22 16:42	1
d-N-MeFOSA-M	94		10 - 150	02/17/22 11:31	02/20/22 16:42	1
d-N-EtFOSA-M	86		10 - 150	02/17/22 11:31	02/20/22 16:42	1
d7-N-MeFOSE-M	84		10 - 150	02/17/22 11:31	02/20/22 16:42	1
d9-N-EtFOSE-M	82		10 - 150	02/17/22 11:31	02/20/22 16:42	1
M2-4:2 FTS	140		25 - 150	02/17/22 11:31	02/20/22 16:42	1
M2-6:2 FTS	129		25 - 150	02/17/22 11:31	02/20/22 16:42	1
M2-8:2 FTS	111		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C3 HFPO-DA	91		25 - 150	02/17/22 11:31	02/20/22 16:42	1
13C2 10:2 FTS	87		25 - 150	02/17/22 11:31	02/20/22 16:42	1



# Client Sample Results

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

Job ID: 500-212466-1

**Client Sample ID: EP-Field Blank**

**Lab Sample ID: 500-212466-2**

Date Collected: 02/16/22 14:28

Matrix: Water

Date Received: 02/17/22 09:35

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.1	2.0	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluoropentanoic acid (PFPeA)	<0.40		1.6	0.40	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorohexanoic acid (PFHxA)	<0.48		1.6	0.48	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.6	0.21	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorooctanoic acid (PFOA)	<0.70		1.6	0.70	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorononanoic acid (PFNA)	<0.22		1.6	0.22	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorodecanoic acid (PFDA)	<0.26		1.6	0.26	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluoroundecanoic acid (PFUnA)	<0.91		1.6	0.91	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorododecanoic acid (PFDoA)	<0.45		1.6	0.45	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.6	1.1	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorotetradecanoic acid (PFTeA)	<0.60		1.6	0.60	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.73		1.6	0.73	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.77		1.6	0.77	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorobutanesulfonic acid (PFBS)	<0.16		1.6	0.16	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluoropentanesulfonic acid (PFPeS)	<0.25		1.6	0.25	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorohexanesulfonic acid (PFHxS)	<0.47		1.6	0.47	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.6	0.16	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorooctanesulfonic acid (PFOS)	<0.45		1.6	0.45	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorononanesulfonic acid (PFNS)	<0.30		1.6	0.30	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorodecanesulfonic acid (PFDS)	<0.26		1.6	0.26	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorododecanesulfonic acid (PFDoS)	<0.80		1.6	0.80	ng/L		02/17/22 11:31	02/20/22 16:52	1
Perfluorooctanesulfonamide (FOSA)	<0.81		1.6	0.81	ng/L		02/17/22 11:31	02/20/22 16:52	1
NEtFOSA	<0.72		1.6	0.72	ng/L		02/17/22 11:31	02/20/22 16:52	1
NMeFOSA	<0.35		1.6	0.35	ng/L		02/17/22 11:31	02/20/22 16:52	1
NMeFOSAA	<0.99		4.1	0.99	ng/L		02/17/22 11:31	02/20/22 16:52	1
NEtFOSAA	<1.1		4.1	1.1	ng/L		02/17/22 11:31	02/20/22 16:52	1
NMeFOSE	<1.2		3.3	1.2	ng/L		02/17/22 11:31	02/20/22 16:52	1
NEtFOSE	<0.70		1.6	0.70	ng/L		02/17/22 11:31	02/20/22 16:52	1
4:2 FTS	<0.20		1.6	0.20	ng/L		02/17/22 11:31	02/20/22 16:52	1
6:2 FTS	<2.1		4.1	2.1	ng/L		02/17/22 11:31	02/20/22 16:52	1
8:2 FTS	<0.38		1.6	0.38	ng/L		02/17/22 11:31	02/20/22 16:52	1
10:2 FTS	<0.55		1.6	0.55	ng/L		02/17/22 11:31	02/20/22 16:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.33		1.6	0.33	ng/L		02/17/22 11:31	02/20/22 16:52	1
HFPO-DA (GenX)	<1.2		3.3	1.2	ng/L		02/17/22 11:31	02/20/22 16:52	1
9Cl-PF3ONS	<0.20		1.6	0.20	ng/L		02/17/22 11:31	02/20/22 16:52	1
11Cl-PF3OUdS	<0.26		1.6	0.26	ng/L		02/17/22 11:31	02/20/22 16:52	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150				02/17/22 11:31	02/20/22 16:52	1
13C5 PFPeA	92		25 - 150				02/17/22 11:31	02/20/22 16:52	1
13C2 PFHxA	94		25 - 150				02/17/22 11:31	02/20/22 16:52	1
13C4 PFHpA	90		25 - 150				02/17/22 11:31	02/20/22 16:52	1
13C4 PFOA	89		25 - 150				02/17/22 11:31	02/20/22 16:52	1
13C5 PFNA	99		25 - 150				02/17/22 11:31	02/20/22 16:52	1
13C2 PFDA	105		25 - 150				02/17/22 11:31	02/20/22 16:52	1
13C2 PFUnA	101		25 - 150				02/17/22 11:31	02/20/22 16:52	1

Eurofins Chicago

# Client Sample Results

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

Job ID: 500-212466-1

**Client Sample ID: EP-Field Blank**

**Lab Sample ID: 500-212466-2**

**Date Collected: 02/16/22 14:28**

**Matrix: Water**

**Date Received: 02/17/22 09:35**

**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>
13C2 PFDoA	100		25 - 150	02/17/22 11:31	02/20/22 16:52	1
13C2 PFTeDA	100		25 - 150	02/17/22 11:31	02/20/22 16:52	1
13C2 PFHxDA	112		25 - 150	02/17/22 11:31	02/20/22 16:52	1
13C3 PFBS	101		25 - 150	02/17/22 11:31	02/20/22 16:52	1
18O2 PFHxS	88		25 - 150	02/17/22 11:31	02/20/22 16:52	1
13C4 PFOS	96		25 - 150	02/17/22 11:31	02/20/22 16:52	1
13C8 FOSA	93		10 - 150	02/17/22 11:31	02/20/22 16:52	1
d3-NMeFOSAA	108		25 - 150	02/17/22 11:31	02/20/22 16:52	1
d5-NEtFOSAA	111		25 - 150	02/17/22 11:31	02/20/22 16:52	1
d-N-MeFOSA-M	89		10 - 150	02/17/22 11:31	02/20/22 16:52	1
d-N-EtFOSA-M	89		10 - 150	02/17/22 11:31	02/20/22 16:52	1
d7-N-MeFOSE-M	96		10 - 150	02/17/22 11:31	02/20/22 16:52	1
d9-N-EtFOSE-M	95		10 - 150	02/17/22 11:31	02/20/22 16:52	1
M2-4:2 FTS	124		25 - 150	02/17/22 11:31	02/20/22 16:52	1
M2-6:2 FTS	104		25 - 150	02/17/22 11:31	02/20/22 16:52	1
M2-8:2 FTS	103		25 - 150	02/17/22 11:31	02/20/22 16:52	1
13C3 HFPO-DA	83		25 - 150	02/17/22 11:31	02/20/22 16:52	1
13C2 10:2 FTS	96		25 - 150	02/17/22 11:31	02/20/22 16:52	1

# Definitions/Glossary

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

Job ID: 500-212466-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
C	See Case Narrative
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: 500-212466-1

## LCMS

### Prep Batch: 566608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212466-1	Entry Point-Line 1	Total/NA	Water	3535	
500-212466-2	EP-Field Blank	Total/NA	Water	3535	
MB 320-566608/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-566608/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-566608/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 567108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212466-1	Entry Point-Line 1	Total/NA	Water	537 (modified)	566608
500-212466-2	EP-Field Blank	Total/NA	Water	537 (modified)	566608
MB 320-566608/1-A	Method Blank	Total/NA	Water	537 (modified)	566608
LCS 320-566608/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	566608
LCSD 320-566608/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	566608

# QC Sample Results

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

Job ID: 500-212466-1

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

**Lab Sample ID: MB 320-566608/1-A**  
**Matrix: Water**  
**Analysis Batch: 567108**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 566608**

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		02/17/22 11:31	02/20/22 16:12	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		02/17/22 11:31	02/20/22 16:12	1
NEtFOSA	<0.87		2.0	0.87	ng/L		02/17/22 11:31	02/20/22 16:12	1
NMeFOSA	<0.43		2.0	0.43	ng/L		02/17/22 11:31	02/20/22 16:12	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		02/17/22 11:31	02/20/22 16:12	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		02/17/22 11:31	02/20/22 16:12	1
NMeFOSE	<1.4		4.0	1.4	ng/L		02/17/22 11:31	02/20/22 16:12	1
NEtFOSE	<0.85		2.0	0.85	ng/L		02/17/22 11:31	02/20/22 16:12	1
4:2 FTS	<0.24		2.0	0.24	ng/L		02/17/22 11:31	02/20/22 16:12	1
6:2 FTS	<2.5		5.0	2.5	ng/L		02/17/22 11:31	02/20/22 16:12	1
8:2 FTS	<0.46		2.0	0.46	ng/L		02/17/22 11:31	02/20/22 16:12	1
10:2 FTS	<0.67		2.0	0.67	ng/L		02/17/22 11:31	02/20/22 16:12	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		02/17/22 11:31	02/20/22 16:12	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		02/17/22 11:31	02/20/22 16:12	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		02/17/22 11:31	02/20/22 16:12	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		02/17/22 11:31	02/20/22 16:12	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	107		25 - 150	02/17/22 11:31	02/20/22 16:12	1			
13C5 PFPeA	123		25 - 150	02/17/22 11:31	02/20/22 16:12	1			
13C2 PFHxA	112		25 - 150	02/17/22 11:31	02/20/22 16:12	1			
13C4 PFHpA	108		25 - 150	02/17/22 11:31	02/20/22 16:12	1			
13C4 PFOA	111		25 - 150	02/17/22 11:31	02/20/22 16:12	1			
13C5 PFNA	119		25 - 150	02/17/22 11:31	02/20/22 16:12	1			

Eurofins Chicago

# QC Sample Results

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

Job ID: 500-212466-1

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

**Lab Sample ID: MB 320-566608/1-A**  
**Matrix: Water**  
**Analysis Batch: 567108**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 566608**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	122		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C2 PFUnA	124		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C2 PFDoA	119		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C2 PFTeDA	118		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C2 PFHxDA	128		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C3 PFBS	118		25 - 150	02/17/22 11:31	02/20/22 16:12	1
18O2 PFHxS	107		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C4 PFOS	112		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C8 FOSA	110		10 - 150	02/17/22 11:31	02/20/22 16:12	1
d3-NMeFOSAA	127		25 - 150	02/17/22 11:31	02/20/22 16:12	1
d5-NEtFOSAA	135		25 - 150	02/17/22 11:31	02/20/22 16:12	1
d-N-MeFOSA-M	101		10 - 150	02/17/22 11:31	02/20/22 16:12	1
d-N-EtFOSA-M	101		10 - 150	02/17/22 11:31	02/20/22 16:12	1
d7-N-MeFOSE-M	114		10 - 150	02/17/22 11:31	02/20/22 16:12	1
d9-N-EtFOSE-M	111		10 - 150	02/17/22 11:31	02/20/22 16:12	1
M2-4:2 FTS	139		25 - 150	02/17/22 11:31	02/20/22 16:12	1
M2-6:2 FTS	123		25 - 150	02/17/22 11:31	02/20/22 16:12	1
M2-8:2 FTS	122		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C3 HFPO-DA	108		25 - 150	02/17/22 11:31	02/20/22 16:12	1
13C2 10:2 FTS	105		25 - 150	02/17/22 11:31	02/20/22 16:12	1

**Lab Sample ID: LCS 320-566608/2-A**  
**Matrix: Water**  
**Analysis Batch: 567108**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 566608**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	37.7		ng/L		94	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	35.6		ng/L		89	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.3		ng/L		101	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	37.4		ng/L		94	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	39.0		ng/L		98	60 - 135
Perfluorononanoic acid (PFNA)	40.0	37.7		ng/L		94	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	35.6		ng/L		89	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	39.1		ng/L		98	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	36.8		ng/L		92	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	40.6		ng/L		101	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.9		ng/L		92	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	37.4		ng/L		93	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	29.2		ng/L		73	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	30.6		ng/L		87	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	32.3		ng/L		86	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.0		ng/L		88	60 - 135

Eurofins Chicago

# QC Sample Results

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

Job ID: 500-212466-1

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

**Lab Sample ID: LCS 320-566608/2-A**  
**Matrix: Water**  
**Analysis Batch: 567108**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 566608**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.8		ng/L		97	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	34.3		ng/L		92	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	35.4		ng/L		92	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	39.6		ng/L		103	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	31.4		ng/L		81	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	39.6		ng/L		99	60 - 135
NEtFOSA	40.0	40.7		ng/L		102	60 - 135
NMeFOSA	40.0	39.7		ng/L		99	60 - 135
NMeFOSAA	40.0	36.5		ng/L		91	60 - 135
NEtFOSAA	40.0	36.1		ng/L		90	60 - 135
NMeFOSE	40.0	39.7		ng/L		99	60 - 135
NEtFOSE	40.0	36.5		ng/L		91	60 - 135
4:2 FTS	37.4	33.2		ng/L		89	60 - 135
6:2 FTS	37.9	33.9		ng/L		89	60 - 135
8:2 FTS	38.3	40.3		ng/L		105	60 - 135
10:2 FTS	38.6	42.2		ng/L		109	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	36.6		ng/L		97	60 - 135
HFPO-DA (GenX)	40.0	39.9		ng/L		100	60 - 135
9CI-PF3ONS	37.3	33.3		ng/L		89	60 - 135
11CI-PF3OUdS	37.7	34.2		ng/L		91	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	107		25 - 150
13C5 PFPeA	120		25 - 150
13C2 PFHxA	110		25 - 150
13C4 PFHpA	111		25 - 150
13C4 PFOA	109		25 - 150
13C5 PFNA	119		25 - 150
13C2 PFDA	126		25 - 150
13C2 PFUnA	122		25 - 150
13C2 PFDoA	110		25 - 150
13C2 PFTeDA	115		25 - 150
13C2 PFHxDA	123		25 - 150
13C3 PFBS	115		25 - 150
18O2 PFHxS	110		25 - 150
13C4 PFOS	112		25 - 150
13C8 FOSA	106		10 - 150
d3-NMeFOSAA	124		25 - 150
d5-NEtFOSAA	126		25 - 150
d-N-MeFOSA-M	98		10 - 150
d-N-EtFOSA-M	101		10 - 150
d7-N-MeFOSE-M	110		10 - 150
d9-N-EtFOSE-M	113		10 - 150

# QC Sample Results

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

Job ID: 500-212466-1

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

**Lab Sample ID: LCS 320-566608/2-A**  
**Matrix: Water**  
**Analysis Batch: 567108**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 566608**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
M2-4:2 FTS	136		25 - 150
M2-6:2 FTS	129		25 - 150
M2-8:2 FTS	112		25 - 150
13C3 HFPO-DA	101		25 - 150
13C2 10:2 FTS	99		25 - 150

**Lab Sample ID: LCSD 320-566608/3-A**  
**Matrix: Water**  
**Analysis Batch: 567108**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 566608**

<b>Analyte</b>	<b>Spike Added</b>	<b>LCSD Result</b>	<b>LCSD Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>	<b>RPD</b>	<b>Limit</b>
Perfluorobutanoic acid (PFBA)	40.0	37.7		ng/L		94	60 - 135	0	30
Perfluoropentanoic acid (PFPeA)	40.0	36.5		ng/L		91	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	39.0		ng/L		98	60 - 135	3	30
Perfluoroheptanoic acid (PFHpA)	40.0	38.2		ng/L		96	60 - 135	2	30
Perfluorooctanoic acid (PFOA)	40.0	39.9		ng/L		100	60 - 135	2	30
Perfluorononanoic acid (PFNA)	40.0	38.6		ng/L		97	60 - 135	2	30
Perfluorodecanoic acid (PFDA)	40.0	36.3		ng/L		91	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)	40.0	40.5		ng/L		101	60 - 135	4	30
Perfluorododecanoic acid (PFDoA)	40.0	38.8		ng/L		97	60 - 135	5	30
Perfluorotridecanoic acid (PFTrDA)	40.0	40.5		ng/L		101	60 - 135	0	30
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6		ng/L		94	60 - 135	2	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	37.8		ng/L		94	60 - 135	1	30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	29.6		ng/L		74	60 - 135	1	30
Perfluorobutanesulfonic acid (PFBS)	35.4	29.8		ng/L		84	60 - 135	3	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	29.7		ng/L		79	60 - 135	8	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.2		ng/L		91	60 - 135	4	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.7		ng/L		91	60 - 135	6	30
Perfluorooctanesulfonic acid (PFOS)	37.1	34.1		ng/L		92	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)	38.4	34.9		ng/L		91	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.6		ng/L		92	60 - 135	11	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	29.3		ng/L		76	60 - 135	7	30
Perfluorooctanesulfonamide (FOSA)	40.0	40.7		ng/L		102	60 - 135	3	30
NEtFOSA	40.0	40.6		ng/L		102	60 - 135	0	30
NMeFOSA	40.0	38.5		ng/L		96	60 - 135	3	30
NMeFOSAA	40.0	33.2		ng/L		83	60 - 135	9	30
NEtFOSAA	40.0	33.6		ng/L		84	60 - 135	7	30
NMeFOSE	40.0	39.4		ng/L		99	60 - 135	1	30

Eurofins Chicago



# QC Sample Results

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

Job ID: 500-212466-1

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

**Lab Sample ID: LCSD 320-566608/3-A**  
**Matrix: Water**  
**Analysis Batch: 567108**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 566608**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE	40.0	39.0		ng/L		97	60 - 135	7	30
4:2 FTS	37.4	30.6		ng/L		82	60 - 135	8	30
6:2 FTS	37.9	32.3		ng/L		85	60 - 135	5	30
8:2 FTS	38.3	38.4		ng/L		100	60 - 135	5	30
10:2 FTS	38.6	37.3		ng/L		97	60 - 135	12	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	33.7		ng/L		89	60 - 135	8	30
HFPO-DA (GenX)	40.0	39.3		ng/L		98	60 - 135	2	30
9Cl-PF3ONS	37.3	31.6		ng/L		85	60 - 135	5	30
11Cl-PF3OUdS	37.7	31.8		ng/L		84	60 - 135	7	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	95		25 - 150
13C5 PFPeA	104		25 - 150
13C2 PFHxA	96		25 - 150
13C4 PFHpA	91		25 - 150
13C4 PFOA	90		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	105		25 - 150
13C2 PFUnA	106		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	99		25 - 150
13C2 PFHxDA	110		25 - 150
13C3 PFBS	111		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	106		25 - 150
13C8 FOSA	94		10 - 150
d3-NMeFOSAA	115		25 - 150
d5-NEtFOSAA	112		25 - 150
d-N-MeFOSA-M	88		10 - 150
d-N-EtFOSA-M	88		10 - 150
d7-N-MeFOSE-M	97		10 - 150
d9-N-EtFOSE-M	92		10 - 150
M2-4:2 FTS	123		25 - 150
M2-6:2 FTS	116		25 - 150
M2-8:2 FTS	101		25 - 150
13C3 HFPO-DA	87		25 - 150
13C2 10:2 FTS	95		25 - 150

# Lab Chronicle

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

Job ID: 500-212466-1

## Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-212466-1

Date Collected: 02/16/22 14:26

Matrix: Water

Date Received: 02/17/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			566608	02/17/22 11:31	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	567108	02/20/22 16:42	D1R	TAL SAC

## Client Sample ID: EP-Field Blank

Lab Sample ID: 500-212466-2

Date Collected: 02/16/22 14:28

Matrix: Water

Date Received: 02/17/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			566608	02/17/22 11:31	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	567108	02/20/22 16:52	D1R	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: 500-212466-1

## 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





## Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-212466-1

**Login Number: 212466**

**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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

## Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-212466-1

**Login Number: 212466**

**List Number: 2**

**Creator: Her, David A**

**List Source: Eurofins Sacramento**

**List Creation: 02/17/22 10:46 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.	True	1802791
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	2.3 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	





# Isotope Dilution Summary

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

Job ID: 500-212466-1

## 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)	PFA (25-150)
500-212466-1	Entry Point-Line 1	86	110	108	98	103	108	113	107
500-212466-2	EP-Field Blank	90	92	94	90	89	99	105	101
LCS 320-566608/2-A	Lab Control Sample	107	120	110	111	109	119	126	122
LCSD 320-566608/3-A	Lab Control Sample Dup	95	104	96	91	90	102	105	106
MB 320-566608/1-A	Method Blank	107	123	112	108	111	119	122	124

### 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)
500-212466-1	Entry Point-Line 1	94	89	117	110	103	108	103	112
500-212466-2	EP-Field Blank	100	100	112	101	88	96	93	108
LCS 320-566608/2-A	Lab Control Sample	110	115	123	115	110	112	106	124
LCSD 320-566608/3-A	Lab Control Sample Dup	98	99	110	111	95	106	94	115
MB 320-566608/1-A	Method Blank	119	118	128	118	107	112	110	127

### 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)
500-212466-1	Entry Point-Line 1	119	94	86	84	82	140	129	111
500-212466-2	EP-Field Blank	111	89	89	96	95	124	104	103
LCS 320-566608/2-A	Lab Control Sample	126	98	101	110	113	136	129	112
LCSD 320-566608/3-A	Lab Control Sample Dup	112	88	88	97	92	123	116	101
MB 320-566608/1-A	Method Blank	135	101	101	114	111	139	123	122

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-212466-1	Entry Point-Line 1	91	87
500-212466-2	EP-Field Blank	83	96
LCS 320-566608/2-A	Lab Control Sample	101	99
LCSD 320-566608/3-A	Lab Control Sample Dup	87	95
MB 320-566608/1-A	Method Blank	108	105

#### Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFA = 13C2 PFA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- PFHxDA = 13C2 PFHxDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M

# Isotope Dilution Summary

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

Job ID: 500-212466-1

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