

ANALYTICAL REPORT

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

Laboratory Job ID: 500-215328-1
Client Project/Site: PFAS Testing

For:

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

Attn: Ty Fadness



Authorized for release by:
4/22/2022 9:18:01 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.



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Case Narrative

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

Job ID: 500-215328-1

Job ID: 500-215328-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-215328-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2022 9:40 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 2.7° C.

LCMS

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-581926. Method Code: 3535_PFC_28D Matrix: Aqueous

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

Detection Summary

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

Job ID: 500-215328-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-215328-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.1	J	4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.3	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.3	J	1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.66	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.6	J	1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.35	J	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.8		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	11		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic acid (PFHpS)	0.19	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.2		1.7	0.46	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-215328-2

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: 500-215328-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

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Sample Summary

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

Job ID: 500-215328-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-215328-1	Entry Point-Line 1	Water	04/20/22 11:47	04/20/22 12:42
500-215328-2	EP-Field Blank	Water	04/20/22 11:48	04/20/22 12:42

- 1
- 2
- 3
- 4
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- 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: 500-215328-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-215328-1

Date Collected: 04/20/22 11:47

Matrix: Water

Date Received: 04/20/22 12:42

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.1	J	4.3	2.1	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluoropentanoic acid (PFPeA)	1.3	J	1.7	0.42	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorohexanoic acid (PFHxA)	1.3	J	1.7	0.50	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluoroheptanoic acid (PFHpA)	0.66	J	1.7	0.21	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorooctanoic acid (PFOA)	1.6	J	1.7	0.73	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorononanoic acid (PFNA)	0.35	J	1.7	0.23	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorobutanesulfonic acid (PFBS)	2.4		1.7	0.17	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluoropentanesulfonic acid (PFPeS)	1.8		1.7	0.26	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorohexanesulfonic acid (PFHxS)	11		1.7	0.49	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluoroheptanesulfonic acid (PFHpS)	0.19	J	1.7	0.16	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorooctanesulfonic acid (PFOS)	5.2		1.7	0.46	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		04/21/22 12:02	04/22/22 00:22	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		04/21/22 12:02	04/22/22 00:22	1
NEtFOSA	<0.75		1.7	0.75	ng/L		04/21/22 12:02	04/22/22 00:22	1
NMeFOSA	<0.37		1.7	0.37	ng/L		04/21/22 12:02	04/22/22 00:22	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		04/21/22 12:02	04/22/22 00:22	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		04/21/22 12:02	04/22/22 00:22	1
NMeFOSE	<1.2		3.4	1.2	ng/L		04/21/22 12:02	04/22/22 00:22	1
NEtFOSE	<0.73		1.7	0.73	ng/L		04/21/22 12:02	04/22/22 00:22	1
4:2 FTS	<0.21		1.7	0.21	ng/L		04/21/22 12:02	04/22/22 00:22	1
6:2 FTS	<2.1		4.3	2.1	ng/L		04/21/22 12:02	04/22/22 00:22	1
8:2 FTS	<0.39		1.7	0.39	ng/L		04/21/22 12:02	04/22/22 00:22	1
10:2 FTS	<0.57		1.7	0.57	ng/L		04/21/22 12:02	04/22/22 00:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		04/21/22 12:02	04/22/22 00:22	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		04/21/22 12:02	04/22/22 00:22	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		04/21/22 12:02	04/22/22 00:22	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		04/21/22 12:02	04/22/22 00:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	68		25 - 150				04/21/22 12:02	04/22/22 00:22	1
13C5 PFPeA	82		25 - 150				04/21/22 12:02	04/22/22 00:22	1
13C2 PFHxA	89		25 - 150				04/21/22 12:02	04/22/22 00:22	1
13C4 PFHpA	89		25 - 150				04/21/22 12:02	04/22/22 00:22	1
13C4 PFOA	87		25 - 150				04/21/22 12:02	04/22/22 00:22	1

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Client Sample Results

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

Job ID: 500-215328-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-215328-1

Date Collected: 04/20/22 11:47

Matrix: Water

Date Received: 04/20/22 12:42

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	88		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C2 PFDA	88		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C2 PFUnA	85		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C2 PFDoA	82		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C2 PFTeDA	80		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C2 PFHxDA	86		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C3 PFBS	78		25 - 150	04/21/22 12:02	04/22/22 00:22	1
18O2 PFHxS	80		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C4 PFOS	80		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C8 FOSA	86		10 - 150	04/21/22 12:02	04/22/22 00:22	1
d3-NMeFOSAA	83		25 - 150	04/21/22 12:02	04/22/22 00:22	1
d5-NEtFOSAA	89		25 - 150	04/21/22 12:02	04/22/22 00:22	1
d-N-MeFOSA-M	76		10 - 150	04/21/22 12:02	04/22/22 00:22	1
d-N-EtFOSA-M	74		10 - 150	04/21/22 12:02	04/22/22 00:22	1
d7-N-MeFOSE-M	66		10 - 150	04/21/22 12:02	04/22/22 00:22	1
d9-N-EtFOSE-M	67		10 - 150	04/21/22 12:02	04/22/22 00:22	1
M2-4:2 FTS	86		25 - 150	04/21/22 12:02	04/22/22 00:22	1
M2-6:2 FTS	103		25 - 150	04/21/22 12:02	04/22/22 00:22	1
M2-8:2 FTS	103		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C3 HFPO-DA	81		25 - 150	04/21/22 12:02	04/22/22 00:22	1
13C2 10:2 FTS	96		25 - 150	04/21/22 12:02	04/22/22 00:22	1

Client Sample Results

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

Job ID: 500-215328-1

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-215328-2

Date Collected: 04/20/22 11:48

Matrix: Water

Date Received: 04/20/22 12:42

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.0		4.3	2.0	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorohexanoic acid (PFHxA)	<0.49		1.7	0.49	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80		1.7	0.80	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.16		1.7	0.16	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		04/21/22 12:02	04/22/22 00:32	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		04/21/22 12:02	04/22/22 00:32	1
NEtFOSA	<0.74		1.7	0.74	ng/L		04/21/22 12:02	04/22/22 00:32	1
NMeFOSA	<0.37		1.7	0.37	ng/L		04/21/22 12:02	04/22/22 00:32	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		04/21/22 12:02	04/22/22 00:32	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		04/21/22 12:02	04/22/22 00:32	1
NMeFOSE	<1.2		3.4	1.2	ng/L		04/21/22 12:02	04/22/22 00:32	1
NEtFOSE	<0.73		1.7	0.73	ng/L		04/21/22 12:02	04/22/22 00:32	1
4:2 FTS	<0.20		1.7	0.20	ng/L		04/21/22 12:02	04/22/22 00:32	1
6:2 FTS	<2.1		4.3	2.1	ng/L		04/21/22 12:02	04/22/22 00:32	1
8:2 FTS	<0.39		1.7	0.39	ng/L		04/21/22 12:02	04/22/22 00:32	1
10:2 FTS	<0.57		1.7	0.57	ng/L		04/21/22 12:02	04/22/22 00:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		04/21/22 12:02	04/22/22 00:32	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		04/21/22 12:02	04/22/22 00:32	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		04/21/22 12:02	04/22/22 00:32	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		04/21/22 12:02	04/22/22 00:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98		25 - 150				04/21/22 12:02	04/22/22 00:32	1
13C5 PFPeA	99		25 - 150				04/21/22 12:02	04/22/22 00:32	1
13C2 PFHxA	99		25 - 150				04/21/22 12:02	04/22/22 00:32	1
13C4 PFHpA	102		25 - 150				04/21/22 12:02	04/22/22 00:32	1
13C4 PFOA	104		25 - 150				04/21/22 12:02	04/22/22 00:32	1
13C5 PFNA	104		25 - 150				04/21/22 12:02	04/22/22 00:32	1
13C2 PFDA	101		25 - 150				04/21/22 12:02	04/22/22 00:32	1
13C2 PFUnA	100		25 - 150				04/21/22 12:02	04/22/22 00:32	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-215328-1

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-215328-2

Date Collected: 04/20/22 11:48

Matrix: Water

Date Received: 04/20/22 12:42

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	98		25 - 150	04/21/22 12:02	04/22/22 00:32	1
13C2 PFTeDA	99		25 - 150	04/21/22 12:02	04/22/22 00:32	1
13C2 PFHxDA	97		25 - 150	04/21/22 12:02	04/22/22 00:32	1
13C3 PFBS	89		25 - 150	04/21/22 12:02	04/22/22 00:32	1
18O2 PFHxS	89		25 - 150	04/21/22 12:02	04/22/22 00:32	1
13C4 PFOS	90		25 - 150	04/21/22 12:02	04/22/22 00:32	1
13C8 FOSA	96		10 - 150	04/21/22 12:02	04/22/22 00:32	1
d3-NMeFOSAA	99		25 - 150	04/21/22 12:02	04/22/22 00:32	1
d5-NEtFOSAA	102		25 - 150	04/21/22 12:02	04/22/22 00:32	1
d-N-MeFOSA-M	84		10 - 150	04/21/22 12:02	04/22/22 00:32	1
d-N-EtFOSA-M	88		10 - 150	04/21/22 12:02	04/22/22 00:32	1
d7-N-MeFOSE-M	84		10 - 150	04/21/22 12:02	04/22/22 00:32	1
d9-N-EtFOSE-M	85		10 - 150	04/21/22 12:02	04/22/22 00:32	1
M2-4:2 FTS	113		25 - 150	04/21/22 12:02	04/22/22 00:32	1
M2-6:2 FTS	110		25 - 150	04/21/22 12:02	04/22/22 00:32	1
M2-8:2 FTS	112		25 - 150	04/21/22 12:02	04/22/22 00:32	1
13C3 HFPO-DA	102		25 - 150	04/21/22 12:02	04/22/22 00:32	1
13C2 10:2 FTS	119		25 - 150	04/21/22 12:02	04/22/22 00:32	1

Definitions/Glossary

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

Job ID: 500-215328-1

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: 500-215328-1

LCMS

Prep Batch: 581926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-215328-1	Entry Point-Line 1	Total/NA	Water	3535	
500-215328-2	EP-Field Blank	Total/NA	Water	3535	
MB 320-581926/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-581926/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-581926/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 581994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-215328-1	Entry Point-Line 1	Total/NA	Water	537 (modified)	581926
500-215328-2	EP-Field Blank	Total/NA	Water	537 (modified)	581926
MB 320-581926/1-A	Method Blank	Total/NA	Water	537 (modified)	581926
LCS 320-581926/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	581926
LCSD 320-581926/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	581926

QC Sample Results

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

Job ID: 500-215328-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-581926/1-A
Matrix: Water
Analysis Batch: 581994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581926

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		04/21/22 12:02	04/21/22 23:51	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		04/21/22 12:02	04/21/22 23:51	1
NEtFOSA	<0.87		2.0	0.87	ng/L		04/21/22 12:02	04/21/22 23:51	1
NMeFOSA	<0.43		2.0	0.43	ng/L		04/21/22 12:02	04/21/22 23:51	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		04/21/22 12:02	04/21/22 23:51	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		04/21/22 12:02	04/21/22 23:51	1
NMeFOSE	<1.4		4.0	1.4	ng/L		04/21/22 12:02	04/21/22 23:51	1
NEtFOSE	<0.85		2.0	0.85	ng/L		04/21/22 12:02	04/21/22 23:51	1
4:2 FTS	<0.24		2.0	0.24	ng/L		04/21/22 12:02	04/21/22 23:51	1
6:2 FTS	<2.5		5.0	2.5	ng/L		04/21/22 12:02	04/21/22 23:51	1
8:2 FTS	<0.46		2.0	0.46	ng/L		04/21/22 12:02	04/21/22 23:51	1
10:2 FTS	<0.67		2.0	0.67	ng/L		04/21/22 12:02	04/21/22 23:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		04/21/22 12:02	04/21/22 23:51	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		04/21/22 12:02	04/21/22 23:51	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		04/21/22 12:02	04/21/22 23:51	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		04/21/22 12:02	04/21/22 23:51	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	90		25 - 150	04/21/22 12:02	04/21/22 23:51	1			
13C5 PFPeA	85		25 - 150	04/21/22 12:02	04/21/22 23:51	1			
13C2 PFHxA	92		25 - 150	04/21/22 12:02	04/21/22 23:51	1			
13C4 PFHpA	94		25 - 150	04/21/22 12:02	04/21/22 23:51	1			
13C4 PFOA	92		25 - 150	04/21/22 12:02	04/21/22 23:51	1			
13C5 PFNA	95		25 - 150	04/21/22 12:02	04/21/22 23:51	1			

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QC Sample Results

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

Job ID: 500-215328-1

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

Lab Sample ID: MB 320-581926/1-A
Matrix: Water
Analysis Batch: 581994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581926

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	92		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C2 PFUnA	90		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C2 PFDoA	85		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C2 PFTeDA	88		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C2 PFHxDA	86		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C3 PFBS	82		25 - 150	04/21/22 12:02	04/21/22 23:51	1
18O2 PFHxS	82		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C4 PFOS	82		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C8 FOSA	84		10 - 150	04/21/22 12:02	04/21/22 23:51	1
d3-NMeFOSAA	88		25 - 150	04/21/22 12:02	04/21/22 23:51	1
d5-NEtFOSAA	95		25 - 150	04/21/22 12:02	04/21/22 23:51	1
d-N-MeFOSA-M	74		10 - 150	04/21/22 12:02	04/21/22 23:51	1
d-N-EtFOSA-M	76		10 - 150	04/21/22 12:02	04/21/22 23:51	1
d7-N-MeFOSE-M	73		10 - 150	04/21/22 12:02	04/21/22 23:51	1
d9-N-EtFOSE-M	75		10 - 150	04/21/22 12:02	04/21/22 23:51	1
M2-4:2 FTS	109		25 - 150	04/21/22 12:02	04/21/22 23:51	1
M2-6:2 FTS	101		25 - 150	04/21/22 12:02	04/21/22 23:51	1
M2-8:2 FTS	97		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C3 HFPO-DA	87		25 - 150	04/21/22 12:02	04/21/22 23:51	1
13C2 10:2 FTS	106		25 - 150	04/21/22 12:02	04/21/22 23:51	1

Lab Sample ID: LCS 320-581926/2-A
Matrix: Water
Analysis Batch: 581994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	40.0	42.3		ng/L		106	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	41.2		ng/L		103	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	39.5		ng/L		99	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.2		ng/L		106	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.9		ng/L		102	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	40.6		ng/L		102	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	43.1		ng/L		108	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	41.5		ng/L		104	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	42.0		ng/L		105	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	40.4		ng/L		101	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	37.5		ng/L		94	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	35.2		ng/L		99	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	37.8		ng/L		101	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.4		ng/L		97	60 - 135

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QC Sample Results

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

Job ID: 500-215328-1

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

Lab Sample ID: LCS 320-581926/2-A
Matrix: Water
Analysis Batch: 581994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581926

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.1	40.0		ng/L		105	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	37.5		ng/L		101	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	39.3		ng/L		102	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	38.7		ng/L		100	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	38.0		ng/L		98	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	40.6		ng/L		102	60 - 135
NEtFOSA	40.0	43.1		ng/L		108	60 - 135
NMeFOSA	40.0	44.5		ng/L		111	60 - 135
NMeFOSAA	40.0	36.5		ng/L		91	60 - 135
NEtFOSAA	40.0	40.1		ng/L		100	60 - 135
NMeFOSE	40.0	38.2		ng/L		96	60 - 135
NEtFOSE	40.0	44.2		ng/L		111	60 - 135
4:2 FTS	37.4	39.8		ng/L		106	60 - 135
6:2 FTS	37.9	41.2		ng/L		109	60 - 135
8:2 FTS	38.3	38.9		ng/L		101	60 - 135
10:2 FTS	38.6	32.9		ng/L		85	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	44.8		ng/L		119	60 - 135
HFPO-DA (GenX)	40.0	40.9		ng/L		102	60 - 135
9Cl-PF3ONS	37.3	39.9		ng/L		107	60 - 135
11Cl-PF3OUdS	37.7	38.9		ng/L		103	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	101		25 - 150
13C5 PFPeA	97		25 - 150
13C2 PFHxA	97		25 - 150
13C4 PFHpA	105		25 - 150
13C4 PFOA	103		25 - 150
13C5 PFNA	102		25 - 150
13C2 PFDA	99		25 - 150
13C2 PFUnA	100		25 - 150
13C2 PFDoA	98		25 - 150
13C2 PFTeDA	96		25 - 150
13C2 PFHxDA	98		25 - 150
13C3 PFBS	92		25 - 150
18O2 PFHxS	90		25 - 150
13C4 PFOS	93		25 - 150
13C8 FOSA	93		10 - 150
d3-NMeFOSAA	100		25 - 150
d5-NEtFOSAA	102		25 - 150
d-N-MeFOSA-M	81		10 - 150
d-N-EtFOSA-M	81		10 - 150
d7-N-MeFOSE-M	86		10 - 150
d9-N-EtFOSE-M	81		10 - 150

QC Sample Results

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

Job ID: 500-215328-1

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

Lab Sample ID: LCS 320-581926/2-A
Matrix: Water
Analysis Batch: 581994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581926

<i>Isotope Dilution</i>	<i>LCS %Recovery</i>	<i>LCS Qualifier</i>	<i>Limits</i>
M2-4:2 FTS	124		25 - 150
M2-6:2 FTS	105		25 - 150
M2-8:2 FTS	111		25 - 150
13C3 HFPO-DA	101		25 - 150
13C2 10:2 FTS	115		25 - 150

Lab Sample ID: LCSD 320-581926/3-A
Matrix: Water
Analysis Batch: 581994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581926

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	42.0		ng/L		105	60 - 135	8	30
Perfluoropentanoic acid (PFPeA)	40.0	40.7		ng/L		102	60 - 135	4	30
Perfluorohexanoic acid (PFHxA)	40.0	38.2		ng/L		95	60 - 135	8	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.0		ng/L		100	60 - 135	1	30
Perfluorooctanoic acid (PFOA)	40.0	40.2		ng/L		100	60 - 135	4	30
Perfluorononanoic acid (PFNA)	40.0	42.8		ng/L		107	60 - 135	1	30
Perfluorodecanoic acid (PFDA)	40.0	39.0		ng/L		97	60 - 135	5	30
Perfluoroundecanoic acid (PFUnA)	40.0	39.8		ng/L		100	60 - 135	2	30
Perfluorododecanoic acid (PFDoA)	40.0	42.4		ng/L		106	60 - 135	2	30
Perfluorotridecanoic acid (PFTrDA)	40.0	40.7		ng/L		102	60 - 135	2	30
Perfluorotetradecanoic acid (PFTeA)	40.0	38.8		ng/L		97	60 - 135	8	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	41.0		ng/L		102	60 - 135	1	30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	34.1		ng/L		85	60 - 135	10	30
Perfluorobutanesulfonic acid (PFBS)	35.4	36.1		ng/L		102	60 - 135	3	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	38.5		ng/L		103	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.5		ng/L		97	60 - 135	0	30
Perfluoroheptanesulfonic acid (PFHpS)	38.1	39.3		ng/L		103	60 - 135	2	30
Perfluorooctanesulfonic acid (PFOS)	37.1	39.8		ng/L		107	60 - 135	6	30
Perfluorononanesulfonic acid (PFNS)	38.4	38.8		ng/L		101	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)	38.6	40.2		ng/L		104	60 - 135	4	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	38.5		ng/L		100	60 - 135	1	30
Perfluorooctanesulfonamide (FOSA)	40.0	39.9		ng/L		100	60 - 135	2	30
NEtFOSA	40.0	39.9		ng/L		100	60 - 135	8	30
NMeFOSA	40.0	43.7		ng/L		109	60 - 135	2	30
NMeFOSAA	40.0	38.0		ng/L		95	60 - 135	4	30
NEtFOSAA	40.0	39.0		ng/L		97	60 - 135	3	30
NMeFOSE	40.0	41.0		ng/L		103	60 - 135	7	30

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QC Sample Results

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

Job ID: 500-215328-1

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

Lab Sample ID: LCSD 320-581926/3-A
Matrix: Water
Analysis Batch: 581994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 581926

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
NETFOSE	40.0	41.6		ng/L		104	60 - 135	6	30
4:2 FTS	37.4	37.6		ng/L		101	60 - 135	6	30
6:2 FTS	37.9	41.6		ng/L		110	60 - 135	1	30
8:2 FTS	38.3	42.6		ng/L		111	60 - 135	9	30
10:2 FTS	38.6	34.1		ng/L		88	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	45.4		ng/L		120	60 - 135	1	30
HFPO-DA (GenX)	40.0	40.7		ng/L		102	60 - 135	0	30
9CI-PF3ONS	37.3	39.8		ng/L		107	60 - 135	0	30
11CI-PF3OUdS	37.7	38.4		ng/L		102	60 - 135	1	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	86		25 - 150
13C5 PFPeA	91		25 - 150
13C2 PFHxA	93		25 - 150
13C4 PFHpA	94		25 - 150
13C4 PFOA	94		25 - 150
13C5 PFNA	91		25 - 150
13C2 PFDA	94		25 - 150
13C2 PFUnA	92		25 - 150
13C2 PFDoA	92		25 - 150
13C2 PFTeDA	93		25 - 150
13C2 PFHxDA	88		25 - 150
13C3 PFBS	86		25 - 150
18O2 PFHxS	84		25 - 150
13C4 PFOS	84		25 - 150
13C8 FOSA	87		10 - 150
d3-NMeFOSAA	91		25 - 150
d5-NEtFOSAA	95		25 - 150
d-N-MeFOSA-M	76		10 - 150
d-N-EtFOSA-M	80		10 - 150
d7-N-MeFOSE-M	82		10 - 150
d9-N-EtFOSE-M	77		10 - 150
M2-4:2 FTS	111		25 - 150
M2-6:2 FTS	100		25 - 150
M2-8:2 FTS	92		25 - 150
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	109		25 - 150

Lab Chronicle

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

Job ID: 500-215328-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-215328-1

Date Collected: 04/20/22 11:47

Matrix: Water

Date Received: 04/20/22 12:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			581926	04/21/22 12:02	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	581994	04/22/22 00:22	S1M	TAL SAC

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-215328-2

Date Collected: 04/20/22 11:48

Matrix: Water

Date Received: 04/20/22 12:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			581926	04/21/22 12:02	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	581994	04/22/22 00:32	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: 500-215328-1

Laboratory: Eurofins Sacramento

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

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

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

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

Chain of Custody Record

eurofins Environment Testing
 America

Client Information		Sampler Tyler Fadness	Lab PM. Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-100726-43338.1																																																																																																																																																																																																																									
Client Contact: Ty Fadness		Phone: 715-839-6121	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2																																																																																																																																																																																																																									
Company City of Eau Claire		PWSID:	Analysis Requested																																																																																																																																																																																																																											
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Ver 06/08/20

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

Chain of Custody Record



Environment Testing
 America

Client Information City of Eau Claire 1000 Ferry Street Eau Claire, WI 54703 Project Name: PFAS Testing Project #: 50019745 SOW#:			Client Information Sampler: Tyler Fadress Phone: 785-839-6121 Lab PM: Fredrick, Sandie E-Mail: Sandira.Fredrick@et.eurofins.com		
Due Date Requested: 4/22/22 TAT Requested (days): 1- Day TAT Compliance Project: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> PO #: 50220192-00 WO #:			Carrier Tracking No(s): 500-100726-43338-1 State of Origin: Job #:		
Sample Identification Sample Date: 4/20/22 Sample Time: 1147 Sample Type (C=Comp, G=Grab): 6 Matrix (A=Water, B=solid, C=on-site, D=tissue, A=Air): Water Preservation Code:			Analysis Requested Field Filtered Samples (No): Perform MS/MSD (No): PFC, IDA, WI - PFAS, Extended List (36 Analytes)		
Sample Date: 4/20/22 Sample Time: 1148 Sample Type (C=Comp, G=Grab): 6 Matrix (A=Water, B=solid, C=on-site, D=tissue, A=Air): Water Preservation Code:			Total Number of containers:		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Special Instructions/Note: 500-215328 Chain of Custody Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For: _____ Months					
Empty Kit Relinquished by: Relinquished by: Tyler Fadress Date: 4/20/22 Company: C.T.F. EC Relinquished by: Date/Time: 1200 Company: Relinquished by: Date/Time: Company:					
Relinquished by: Date: 4/22/22 Company: C.T.F. EC Relinquished by: Tyler Fadress Date/Time: 9:00 Company: Relinquished by: Date/Time: Company:					
Custody Seals Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cooler Temperature(s) °C and Other Remarks: 2.70					

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-215328-1

Login Number: 215328

List Number: 1

Creator: Her, David A

List Source: Eurofins Sacramento

List Creation: 04/21/22 10:42 AM

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	1831527/1831526
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	2.7 c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (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



500-215328 Field Sheet

Tracking #:

5632 2369 7221

Job:

SO / 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-4 Corr. Factor: (+/-) _____ °C

Ice Wet Gel _____ Other _____

Cooler Custody Seal: 1631527 / 1631526

Cooler ID: _____

Temp Observed: 2.7 °C Corrected: 2.7 °C
From: Temp Blank Sample

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

Initials: DL Date: 4/21/22

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

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

Initials: DL Date: 4/21/22

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: 4/21/22

Isotope Dilution Summary

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

Job ID: 500-215328-1

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)
500-215328-1	Entry Point-Line 1	68	82	89	89	87	88	88	85
500-215328-2	EP-Field Blank	98	99	99	102	104	104	101	100
LCS 320-581926/2-A	Lab Control Sample	101	97	97	105	103	102	99	100
LCSD 320-581926/3-A	Lab Control Sample Dup	86	91	93	94	94	91	94	92
MB 320-581926/1-A	Method Blank	90	85	92	94	92	95	92	90

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-215328-1	Entry Point-Line 1	82	80	86	78	80	80	86	83
500-215328-2	EP-Field Blank	98	99	97	89	89	90	96	99
LCS 320-581926/2-A	Lab Control Sample	98	96	98	92	90	93	93	100
LCSD 320-581926/3-A	Lab Control Sample Dup	92	93	88	86	84	84	87	91
MB 320-581926/1-A	Method Blank	85	88	86	82	82	82	84	88

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)
500-215328-1	Entry Point-Line 1	89	76	74	66	67	86	103	103
500-215328-2	EP-Field Blank	102	84	88	84	85	113	110	112
LCS 320-581926/2-A	Lab Control Sample	102	81	81	86	81	124	105	111
LCSD 320-581926/3-A	Lab Control Sample Dup	95	76	80	82	77	111	100	92
MB 320-581926/1-A	Method Blank	95	74	76	73	75	109	101	97

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-215328-1	Entry Point-Line 1	81	96
500-215328-2	EP-Field Blank	102	119
LCS 320-581926/2-A	Lab Control Sample	101	115
LCSD 320-581926/3-A	Lab Control Sample Dup	91	109
MB 320-581926/1-A	Method Blank	87	106

Surrogate Legend

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

Job ID: 500-215328-1

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

dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

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