

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212753-1
Client Project/Site: PFAS Testing

For:

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

Attn: Ty Fadness



*Authorized for release by:
2/25/2022 2:41:52 PM*

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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	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	26

Case Narrative

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

Job ID: 500-212753-1

Job ID: 500-212753-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-212753-1**

Comments

No additional comments.

Receipt

The samples were received on 2/24/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): Sample 2, both containers have ID as Entry Point-Field Blank but COC lists ID as EP-Field Blank. EP-Field Blank (500-212753-2).

LCMS

Method 537 (modified): The low level continuing calibration verification (CCVL) associated with batch 320-568347 recovered below the lower control limit for Perfluoro(2-propoxypropanoic) Acid. The CCVL is used as a sensitivity check for the instrument. The bracketing continuing calibration verifications (CCVs) for the samples were within control limits. The samples associated with this CCVL were non-detects for the affected analyte. There is no impact to the samples from the low CCVL; therefore, the data have been reported. Entry Point-Line 1 (500-212753-1), EP-Field Blank (500-212753-2) and (CCVL 320-568347/2)

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 320-568137.

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: 500-212753-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-212753-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.2	J	4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.6	J	1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.4		1.8	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.92	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)	0.28	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.1		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.3		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.34	J	1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.1		1.8	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-212753-2

No Detections.

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: 500-212753-1

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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- 14
- 15
- 16

Sample Summary

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

Job ID: 500-212753-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212753-1	Entry Point-Line 1	Water	02/23/22 09:56	02/23/22 13:13
500-212753-2	EP-Field Blank	Water	02/23/22 09:58	02/23/22 13:13

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- 16

Client Sample Results

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

Job ID: 500-212753-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-212753-1

Date Collected: 02/23/22 09:56

Matrix: Water

Date Received: 02/23/22 13:13

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.2	J	4.6	2.2	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluoropentanoic acid (PFPeA)	1.6	J	1.8	0.45	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorohexanoic acid (PFHxA)	2.4		1.8	0.54	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluoroheptanoic acid (PFHpA)	0.92	J	1.8	0.23	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorooctanoic acid (PFOA)	2.7		1.8	0.78	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorononanoic acid (PFNA)	0.28	J	1.8	0.25	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorobutanesulfonic acid (PFBS)	3.1		1.8	0.18	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluoropentanesulfonic acid (PFPeS)	2.3		1.8	0.28	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorohexanesulfonic acid (PFHxS)	13		1.8	0.53	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.34	J	1.8	0.18	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorooctanesulfonic acid (PFOS)	5.1		1.8	0.50	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.8	0.30	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		02/24/22 12:50	02/25/22 07:50	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		02/24/22 12:50	02/25/22 07:50	1
NEtFOSA	<0.80		1.8	0.80	ng/L		02/24/22 12:50	02/25/22 07:50	1
NMeFOSA	<0.40		1.8	0.40	ng/L		02/24/22 12:50	02/25/22 07:50	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		02/24/22 12:50	02/25/22 07:50	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		02/24/22 12:50	02/25/22 07:50	1
NMeFOSE	<1.3		3.7	1.3	ng/L		02/24/22 12:50	02/25/22 07:50	1
NEtFOSE	<0.78		1.8	0.78	ng/L		02/24/22 12:50	02/25/22 07:50	1
4:2 FTS	<0.22		1.8	0.22	ng/L		02/24/22 12:50	02/25/22 07:50	1
6:2 FTS	<2.3		4.6	2.3	ng/L		02/24/22 12:50	02/25/22 07:50	1
8:2 FTS	<0.42		1.8	0.42	ng/L		02/24/22 12:50	02/25/22 07:50	1
10:2 FTS	<0.62		1.8	0.62	ng/L		02/24/22 12:50	02/25/22 07:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		02/24/22 12:50	02/25/22 07:50	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		02/24/22 12:50	02/25/22 07:50	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		02/24/22 12:50	02/25/22 07:50	1
11Cl-PF3OUdS	<0.30		1.8	0.30	ng/L		02/24/22 12:50	02/25/22 07:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	71		25 - 150				02/24/22 12:50	02/25/22 07:50	1
13C5 PFPeA	83		25 - 150				02/24/22 12:50	02/25/22 07:50	1
13C2 PFHxA	74		25 - 150				02/24/22 12:50	02/25/22 07:50	1
13C4 PFHpA	79		25 - 150				02/24/22 12:50	02/25/22 07:50	1
13C4 PFOA	89		25 - 150				02/24/22 12:50	02/25/22 07:50	1

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Client Sample Results

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

Job ID: 500-212753-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-212753-1

Date Collected: 02/23/22 09:56

Matrix: Water

Date Received: 02/23/22 13:13

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	92		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C2 PFDA	84		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C2 PFUnA	79		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C2 PFDoA	81		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C2 PFTeDA	87		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C2 PFHxDA	92		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C3 PFBS	80		25 - 150	02/24/22 12:50	02/25/22 07:50	1
18O2 PFHxS	87		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C4 PFOS	96		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C8 FOSA	86		10 - 150	02/24/22 12:50	02/25/22 07:50	1
d3-NMeFOSAA	67		25 - 150	02/24/22 12:50	02/25/22 07:50	1
d5-NEtFOSAA	72		25 - 150	02/24/22 12:50	02/25/22 07:50	1
d-N-MeFOSA-M	82		10 - 150	02/24/22 12:50	02/25/22 07:50	1
d-N-EtFOSA-M	77		10 - 150	02/24/22 12:50	02/25/22 07:50	1
d7-N-MeFOSE-M	65		10 - 150	02/24/22 12:50	02/25/22 07:50	1
d9-N-EtFOSE-M	74		10 - 150	02/24/22 12:50	02/25/22 07:50	1
M2-4:2 FTS	66		25 - 150	02/24/22 12:50	02/25/22 07:50	1
M2-6:2 FTS	74		25 - 150	02/24/22 12:50	02/25/22 07:50	1
M2-8:2 FTS	76		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C3 HFPO-DA	72		25 - 150	02/24/22 12:50	02/25/22 07:50	1
13C2 10:2 FTS	77		25 - 150	02/24/22 12:50	02/25/22 07:50	1

Client Sample Results

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

Job ID: 500-212753-1

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-212753-2

Date Collected: 02/23/22 09:58

Matrix: Water

Date Received: 02/23/22 13:13

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.2		4.5	2.2	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorooctanesulfonic acid (PFOS)	<0.49		1.8	0.49	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		02/24/22 12:50	02/25/22 08:01	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		02/24/22 12:50	02/25/22 08:01	1
NEtFOSA	<0.78		1.8	0.78	ng/L		02/24/22 12:50	02/25/22 08:01	1
NMeFOSA	<0.39		1.8	0.39	ng/L		02/24/22 12:50	02/25/22 08:01	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		02/24/22 12:50	02/25/22 08:01	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		02/24/22 12:50	02/25/22 08:01	1
NMeFOSE	<1.3		3.6	1.3	ng/L		02/24/22 12:50	02/25/22 08:01	1
NEtFOSE	<0.76		1.8	0.76	ng/L		02/24/22 12:50	02/25/22 08:01	1
4:2 FTS	<0.22		1.8	0.22	ng/L		02/24/22 12:50	02/25/22 08:01	1
6:2 FTS	<2.2		4.5	2.2	ng/L		02/24/22 12:50	02/25/22 08:01	1
8:2 FTS	<0.41		1.8	0.41	ng/L		02/24/22 12:50	02/25/22 08:01	1
10:2 FTS	<0.60		1.8	0.60	ng/L		02/24/22 12:50	02/25/22 08:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		02/24/22 12:50	02/25/22 08:01	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		02/24/22 12:50	02/25/22 08:01	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		02/24/22 12:50	02/25/22 08:01	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		02/24/22 12:50	02/25/22 08:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150				02/24/22 12:50	02/25/22 08:01	1
13C5 PFPeA	88		25 - 150				02/24/22 12:50	02/25/22 08:01	1
13C2 PFHxA	83		25 - 150				02/24/22 12:50	02/25/22 08:01	1
13C4 PFHpA	94		25 - 150				02/24/22 12:50	02/25/22 08:01	1
13C4 PFOA	92		25 - 150				02/24/22 12:50	02/25/22 08:01	1
13C5 PFNA	93		25 - 150				02/24/22 12:50	02/25/22 08:01	1
13C2 PFDA	87		25 - 150				02/24/22 12:50	02/25/22 08:01	1
13C2 PFUnA	84		25 - 150				02/24/22 12:50	02/25/22 08:01	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-212753-1

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-212753-2

Date Collected: 02/23/22 09:58

Matrix: Water

Date Received: 02/23/22 13:13

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	85		25 - 150	02/24/22 12:50	02/25/22 08:01	1
13C2 PFTeDA	97		25 - 150	02/24/22 12:50	02/25/22 08:01	1
13C2 PFHxDA	94		25 - 150	02/24/22 12:50	02/25/22 08:01	1
13C3 PFBS	92		25 - 150	02/24/22 12:50	02/25/22 08:01	1
18O2 PFHxS	89		25 - 150	02/24/22 12:50	02/25/22 08:01	1
13C4 PFOS	97		25 - 150	02/24/22 12:50	02/25/22 08:01	1
13C8 FOSA	86		10 - 150	02/24/22 12:50	02/25/22 08:01	1
d3-NMeFOSAA	71		25 - 150	02/24/22 12:50	02/25/22 08:01	1
d5-NEtFOSAA	81		25 - 150	02/24/22 12:50	02/25/22 08:01	1
d-N-MeFOSA-M	81		10 - 150	02/24/22 12:50	02/25/22 08:01	1
d-N-EtFOSA-M	85		10 - 150	02/24/22 12:50	02/25/22 08:01	1
d7-N-MeFOSE-M	84		10 - 150	02/24/22 12:50	02/25/22 08:01	1
d9-N-EtFOSE-M	86		10 - 150	02/24/22 12:50	02/25/22 08:01	1
M2-4:2 FTS	64		25 - 150	02/24/22 12:50	02/25/22 08:01	1
M2-6:2 FTS	79		25 - 150	02/24/22 12:50	02/25/22 08:01	1
M2-8:2 FTS	72		25 - 150	02/24/22 12:50	02/25/22 08:01	1
13C3 HFPO-DA	79		25 - 150	02/24/22 12:50	02/25/22 08:01	1
13C2 10:2 FTS	81		25 - 150	02/24/22 12:50	02/25/22 08:01	1

Definitions/Glossary

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

Job ID: 500-212753-1

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: 500-212753-1

LCMS

Prep Batch: 568137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212753-1	Entry Point-Line 1	Total/NA	Water	3535	
500-212753-2	EP-Field Blank	Total/NA	Water	3535	
MB 320-568137/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-568137/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-568137/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 568347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212753-1	Entry Point-Line 1	Total/NA	Water	537 (modified)	568137
500-212753-2	EP-Field Blank	Total/NA	Water	537 (modified)	568137
MB 320-568137/1-A	Method Blank	Total/NA	Water	537 (modified)	568137
LCS 320-568137/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	568137
LCSD 320-568137/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	568137

QC Sample Results

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

Job ID: 500-212753-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-568137/1-A
Matrix: Water
Analysis Batch: 568347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568137

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		02/24/22 12:50	02/25/22 07:19	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		02/24/22 12:50	02/25/22 07:19	1
NEtFOSA	<0.87		2.0	0.87	ng/L		02/24/22 12:50	02/25/22 07:19	1
NMeFOSA	<0.43		2.0	0.43	ng/L		02/24/22 12:50	02/25/22 07:19	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		02/24/22 12:50	02/25/22 07:19	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		02/24/22 12:50	02/25/22 07:19	1
NMeFOSE	<1.4		4.0	1.4	ng/L		02/24/22 12:50	02/25/22 07:19	1
NEtFOSE	<0.85		2.0	0.85	ng/L		02/24/22 12:50	02/25/22 07:19	1
4:2 FTS	<0.24		2.0	0.24	ng/L		02/24/22 12:50	02/25/22 07:19	1
6:2 FTS	<2.5		5.0	2.5	ng/L		02/24/22 12:50	02/25/22 07:19	1
8:2 FTS	<0.46		2.0	0.46	ng/L		02/24/22 12:50	02/25/22 07:19	1
10:2 FTS	<0.67		2.0	0.67	ng/L		02/24/22 12:50	02/25/22 07:19	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		02/24/22 12:50	02/25/22 07:19	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		02/24/22 12:50	02/25/22 07:19	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		02/24/22 12:50	02/25/22 07:19	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		02/24/22 12:50	02/25/22 07:19	1
Isotope Dilution	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C4 PFBA	65		25 - 150				02/24/22 12:50	02/25/22 07:19	1
13C5 PFPeA	67		25 - 150				02/24/22 12:50	02/25/22 07:19	1
13C2 PFHxA	62		25 - 150				02/24/22 12:50	02/25/22 07:19	1
13C4 PFHpA	63		25 - 150				02/24/22 12:50	02/25/22 07:19	1
13C4 PFOA	66		25 - 150				02/24/22 12:50	02/25/22 07:19	1
13C5 PFNA	73		25 - 150				02/24/22 12:50	02/25/22 07:19	1

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QC Sample Results

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

Job ID: 500-212753-1

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

Lab Sample ID: MB 320-568137/1-A
Matrix: Water
Analysis Batch: 568347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 568137

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	67		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C2 PFUnA	68		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C2 PFDoA	67		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C2 PFTeDA	77		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C2 PFHxDA	77		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C3 PFBS	71		25 - 150	02/24/22 12:50	02/25/22 07:19	1
18O2 PFHxS	70		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C4 PFOS	79		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C8 FOSA	65		10 - 150	02/24/22 12:50	02/25/22 07:19	1
d3-NMeFOSAA	59		25 - 150	02/24/22 12:50	02/25/22 07:19	1
d5-NEtFOSAA	68		25 - 150	02/24/22 12:50	02/25/22 07:19	1
d-N-MeFOSA-M	58		10 - 150	02/24/22 12:50	02/25/22 07:19	1
d-N-EtFOSA-M	59		10 - 150	02/24/22 12:50	02/25/22 07:19	1
d7-N-MeFOSE-M	66		10 - 150	02/24/22 12:50	02/25/22 07:19	1
d9-N-EtFOSE-M	66		10 - 150	02/24/22 12:50	02/25/22 07:19	1
M2-4:2 FTS	40		25 - 150	02/24/22 12:50	02/25/22 07:19	1
M2-6:2 FTS	58		25 - 150	02/24/22 12:50	02/25/22 07:19	1
M2-8:2 FTS	57		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C3 HFPO-DA	56		25 - 150	02/24/22 12:50	02/25/22 07:19	1
13C2 10:2 FTS	65		25 - 150	02/24/22 12:50	02/25/22 07:19	1

Lab Sample ID: LCS 320-568137/2-A
Matrix: Water
Analysis Batch: 568347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	37.1		ng/L		93	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	37.1		ng/L		93	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.2		ng/L		110	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	43.4		ng/L		109	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	37.9		ng/L		95	60 - 135
Perfluorononanoic acid (PFNA)	40.0	39.6		ng/L		99	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	37.8		ng/L		95	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	40.6		ng/L		102	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.5		ng/L		104	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	42.9		ng/L		107	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.2		ng/L		100	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	43.2		ng/L		108	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	27.4		ng/L		68	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	31.4		ng/L		89	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.7		ng/L		98	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.3		ng/L		97	60 - 135

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QC Sample Results

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

Job ID: 500-212753-1

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

Lab Sample ID: LCS 320-568137/2-A
Matrix: Water
Analysis Batch: 568347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568137

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	32.9		ng/L		86	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	34.1		ng/L		92	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	34.4		ng/L		90	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	34.9		ng/L		90	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	40.3		ng/L		104	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	43.2		ng/L		108	60 - 135
NEtFOSA	40.0	35.0		ng/L		88	60 - 135
NMeFOSA	40.0	39.7		ng/L		99	60 - 135
NMeFOSAA	40.0	36.2		ng/L		91	60 - 135
NEtFOSAA	40.0	38.8		ng/L		97	60 - 135
NMeFOSE	40.0	43.3		ng/L		108	60 - 135
NEtFOSE	40.0	39.4		ng/L		98	60 - 135
4:2 FTS	37.4	38.0		ng/L		102	60 - 135
6:2 FTS	37.9	39.7		ng/L		105	60 - 135
8:2 FTS	38.3	41.6		ng/L		108	60 - 135
10:2 FTS	38.6	34.0		ng/L		88	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	32.8		ng/L		87	60 - 135
HFPO-DA (GenX)	40.0	41.2		ng/L		103	60 - 135
9Cl-PF3ONS	37.3	31.6		ng/L		85	60 - 135
11Cl-PF3OUdS	37.7	36.8		ng/L		98	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	92		25 - 150
13C5 PFPeA	90		25 - 150
13C2 PFHxA	83		25 - 150
13C4 PFHpA	81		25 - 150
13C4 PFOA	94		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	90		25 - 150
13C2 PFUnA	88		25 - 150
13C2 PFDoA	88		25 - 150
13C2 PFTeDA	98		25 - 150
13C2 PFHxDA	96		25 - 150
13C3 PFBS	86		25 - 150
18O2 PFHxS	97		25 - 150
13C4 PFOS	107		25 - 150
13C8 FOSA	89		10 - 150
d3-NMeFOSAA	83		25 - 150
d5-NEtFOSAA	82		25 - 150
d-N-MeFOSA-M	87		10 - 150
d-N-EtFOSA-M	88		10 - 150
d7-N-MeFOSE-M	88		10 - 150
d9-N-EtFOSE-M	82		10 - 150

QC Sample Results

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

Job ID: 500-212753-1

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

Lab Sample ID: LCS 320-568137/2-A
Matrix: Water
Analysis Batch: 568347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 568137

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
M2-4:2 FTS	59		25 - 150
M2-6:2 FTS	75		25 - 150
M2-8:2 FTS	69		25 - 150
13C3 HFPO-DA	73		25 - 150
13C2 10:2 FTS	84		25 - 150

Lab Sample ID: LCSD 320-568137/3-A
Matrix: Water
Analysis Batch: 568347

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 568137

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	36.3		ng/L		91	60 - 135	2	30
Perfluoropentanoic acid (PFPeA)	40.0	37.7		ng/L		94	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	40.0		ng/L		100	60 - 135	10	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.4		ng/L		101	60 - 135	7	30
Perfluorooctanoic acid (PFOA)	40.0	37.5		ng/L		94	60 - 135	1	30
Perfluorononanoic acid (PFNA)	40.0	37.9		ng/L		95	60 - 135	4	30
Perfluorodecanoic acid (PFDA)	40.0	35.4		ng/L		88	60 - 135	7	30
Perfluoroundecanoic acid (PFUnA)	40.0	40.2		ng/L		101	60 - 135	1	30
Perfluorododecanoic acid (PFDoA)	40.0	40.8		ng/L		102	60 - 135	2	30
Perfluorotridecanoic acid (PFTrDA)	40.0	43.6		ng/L		109	60 - 135	2	30
Perfluorotetradecanoic acid (PFTeA)	40.0	39.3		ng/L		98	60 - 135	2	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	40.6		ng/L		102	60 - 135	6	30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	28.2		ng/L		71	60 - 135	3	30
Perfluorobutanesulfonic acid (PFBS)	35.4	33.1		ng/L		93	60 - 135	5	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	35.3		ng/L		94	60 - 135	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.0		ng/L		91	60 - 135	7	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.4		ng/L		90	60 - 135	5	30
Perfluorooctanesulfonic acid (PFOS)	37.1	33.1		ng/L		89	60 - 135	3	30
Perfluorononanesulfonic acid (PFNS)	38.4	32.8		ng/L		85	60 - 135	5	30
Perfluorodecanesulfonic acid (PFDS)	38.6	33.0		ng/L		86	60 - 135	5	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	35.7		ng/L		92	60 - 135	12	30
Perfluorooctanesulfonamide (FOSA)	40.0	41.2		ng/L		103	60 - 135	5	30
NEtFOSA	40.0	40.7		ng/L		102	60 - 135	15	30
NMeFOSA	40.0	40.7		ng/L		102	60 - 135	2	30
NMeFOSAA	40.0	33.9		ng/L		85	60 - 135	7	30
NEtFOSAA	40.0	35.3		ng/L		88	60 - 135	10	30
NMeFOSE	40.0	38.2		ng/L		95	60 - 135	12	30

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QC Sample Results

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

Job ID: 500-212753-1

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

Lab Sample ID: LCSD 320-568137/3-A
Matrix: Water
Analysis Batch: 568347

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 568137

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NETFOSE	40.0	35.2		ng/L		88	60 - 135	11	30
4:2 FTS	37.4	37.2		ng/L		99	60 - 135	2	30
6:2 FTS	37.9	36.1		ng/L		95	60 - 135	10	30
8:2 FTS	38.3	33.5		ng/L		87	60 - 135	22	30
10:2 FTS	38.6	32.7		ng/L		85	60 - 135	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	33.5		ng/L		89	60 - 135	2	30
HFPO-DA (GenX)	40.0	39.7		ng/L		99	60 - 135	4	30
9CI-PF3ONS	37.3	31.4		ng/L		84	60 - 135	0	30
11CI-PF3OUdS	37.7	34.1		ng/L		91	60 - 135	8	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	LCSD Limits
13C4 PFBA	90		25 - 150
13C5 PFPeA	85		25 - 150
13C2 PFHxA	79		25 - 150
13C4 PFHpA	84		25 - 150
13C4 PFOA	90		25 - 150
13C5 PFNA	93		25 - 150
13C2 PFDA	92		25 - 150
13C2 PFUnA	85		25 - 150
13C2 PFDoA	84		25 - 150
13C2 PFTeDA	97		25 - 150
13C2 PFHxDA	93		25 - 150
13C3 PFBS	86		25 - 150
18O2 PFHxS	91		25 - 150
13C4 PFOS	103		25 - 150
13C8 FOSA	84		10 - 150
d3-NMeFOSAA	76		25 - 150
d5-NEtFOSAA	85		25 - 150
d-N-MeFOSA-M	80		10 - 150
d-N-EtFOSA-M	79		10 - 150
d7-N-MeFOSE-M	78		10 - 150
d9-N-EtFOSE-M	89		10 - 150
M2-4:2 FTS	58		25 - 150
M2-6:2 FTS	73		25 - 150
M2-8:2 FTS	78		25 - 150
13C3 HFPO-DA	74		25 - 150
13C2 10:2 FTS	81		25 - 150

Lab Chronicle

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

Job ID: 500-212753-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-212753-1

Date Collected: 02/23/22 09:56

Matrix: Water

Date Received: 02/23/22 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			568137	02/24/22 12:50	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	568347	02/25/22 07:50	AF	TAL SAC

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-212753-2

Date Collected: 02/23/22 09:58

Matrix: Water

Date Received: 02/23/22 13:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			568137	02/24/22 12:50	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1	568347	02/25/22 08:01	AF	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: 500-212753-1

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

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Chain of Custody Record

Client Information Client Contact: Tyler Fadhness Phone: 715-839-6121 E-Mail: sandra.frednick@eurofinset.com PWSID:		Lab PM: Fredrick, Sandie E-Mail:		Carrier Tracking No(s): 320-41738-10138 1 State of Origin:		Page 1 of 1 Job #:	
Due Date Requested: 2/25/22 TAT Requested (days): 7 Days TAT Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order Requested: WO #: Project #: 32012617 SOW#:		Analysis Requested PFC, IDA - PFAS, Extended List (36 Analytes) <input checked="" type="checkbox"/> Field Filled Sample (Yes or No) <input checked="" type="checkbox"/> Perform M/M (Yes or No) <input checked="" type="checkbox"/> Total Number of Containers:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 L - EDTA Z - other (specify)		Special Instructions/Note: 500-212753 Chain of Custody	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Organic, Aque)	Field Filled Sample (Yes or No)	Perform M/M (Yes or No)	PFC, IDA - PFAS, Extended List (36 Analytes)
Entry Point - Line 1 EP - Field Blank	2/23/22	0956	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	2/23/22	0958	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/OC Requirements

Empty Kit Relinquished by: *[Signature]* Date: 2/23/22 Time: 1100
 Relinquished by: *[Signature]* Date: 2/23/22 Time: 1100
 Relinquished by: *[Signature]* Date: _____ Time: _____
 Relinquished by: *[Signature]* Date: _____ Time: _____

Custody Seal Intact: Yes No
 Custody Seal No.: 1802790
 Cooler Temperature(s) °C and Other Remarks: 1.4

Company: L.T.T. & EC
 Date/Time: 2-24-22 1105
 Company: EPTX
 Date/Time: _____
 Company: _____
 Date/Time: _____
 Company: _____

Ver (6/18/2021)

Entry point - Field Blank 502-24-66

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-212753-1

Login Number: 212753

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-212753-1

Login Number: 212753

List Number: 2

Creator: Oropeza, Salvador

List Source: Eurofins Sacramento

List Creation: 02/24/22 11:50 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1802790
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4C
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.	False	Refer to Job Narrative for details.
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	

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eurolins | Environment Testing
Technologies

SIGNATURE _____

1802790

ORIGIN ID:ARLA (202) 202-5965
CITY OF EAU CLAIRE
1000 FERRY ST
EAU CLAIRE, WI 54701
UNITED STATES US

SHIP DATE: _____
ACTING: _____
CAD: _____

SAMPLE RECEIPT

EUROFINS
880 RIVERSIDE PARKWAY
WEST SACRAMENTO CA 95605

(202) 202-5965 REF: _____
DEPT: _____

**THU - 24 FEB AA
PRIORITY OVERNIGHT**

TRK# 5622
0221

FedEx
TRK# 5622 2306 7952
0221

NH BLUA

95605
CA-US
SMF

1802790

106507 23Feb2022 EANA 56062/027C/1B23

Isotope Dilution Summary

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

Job ID: 500-212753-1

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)
500-212753-1	Entry Point-Line 1	71	83	74	79	89	92	84	79
500-212753-2	EP-Field Blank	91	88	83	94	92	93	87	84
LCS 320-568137/2-A	Lab Control Sample	92	90	83	81	94	95	90	88
LCSD 320-568137/3-A	Lab Control Sample Dup	90	85	79	84	90	93	92	85
MB 320-568137/1-A	Method Blank	65	67	62	63	66	73	67	68

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)
500-212753-1	Entry Point-Line 1	81	87	92	80	87	96	86	67
500-212753-2	EP-Field Blank	85	97	94	92	89	97	86	71
LCS 320-568137/2-A	Lab Control Sample	88	98	96	86	97	107	89	83
LCSD 320-568137/3-A	Lab Control Sample Dup	84	97	93	86	91	103	84	76
MB 320-568137/1-A	Method Blank	67	77	77	71	70	79	65	59

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)
500-212753-1	Entry Point-Line 1	72	82	77	65	74	66	74	76
500-212753-2	EP-Field Blank	81	81	85	84	86	64	79	72
LCS 320-568137/2-A	Lab Control Sample	82	87	88	88	82	59	75	69
LCSD 320-568137/3-A	Lab Control Sample Dup	85	80	79	78	89	58	73	78
MB 320-568137/1-A	Method Blank	68	58	59	66	66	40	58	57

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
500-212753-1	Entry Point-Line 1	72	77
500-212753-2	EP-Field Blank	79	81
LCS 320-568137/2-A	Lab Control Sample	73	84
LCSD 320-568137/3-A	Lab Control Sample Dup	74	81
MB 320-568137/1-A	Method Blank	56	65

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
- 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: 500-212753-1

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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