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ANALYTICAL REPORT

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

Laboratory Job ID: 500-214048-1
Client Project/Site: PFAS Testing

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

Attn: Ty Fadness

Authorized for release by:
3/25/2022 3:23:18 PM
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Case Narrative

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

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Narrative

Job Narrative
500-214048-1

Comments
No additional comments.

Receipt
The samples were received on 3/24/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

Receipt Exceptions
The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC):
Sample#2 client label lists id as Field Blank, however COC list EP-Field Blank. The lab logged in sample id according to COC.
EP-Field Blank (500-214048-2).

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

Organic Prep
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: 500-214048-1

Client Sample ID: Entry Point-Line 1 — Lab Sample ID: 500-214048-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.4	J	4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.5	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.79	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.33	J	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.2		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.27	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.9		1.9	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EP-Field Blank — Lab Sample ID: 500-214048-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-214048-1

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

Sample Summary

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

Job ID: 500-214048-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-214048-1	Entry Point-Line 1	Water	03/23/22 08:54	03/24/22 09:15
500-214048-2	EP-Field Blank	Water	03/23/22 08:55	03/24/22 09:15

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

Job ID: 500-214048-1

Client Sample ID: Entry Point-Line 1

Date Collected: 03/23/22 08:54
Date Received: 03/24/22 09:15

Lab Sample ID: 500-214048-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.4**	**J**	4.8	2.3	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluoropentanoic acid (PFPeA)	**1.5**	**J**	1.9	0.47	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorohexanoic acid (PFHxA)	**1.7**	**J**	1.9	0.55	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluoroheptanoic acid (PFHpA)	**0.79**	**J**	1.9	0.24	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorooctanoic acid (PFOA)	**2.1**		1.9	0.81	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorononanoic acid (PFNA)	**0.33**	**J**	1.9	0.26	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.85		1.9	0.85	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.90		1.9	0.90	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorobutanesulfonic acid (PFBS)	**2.7**		1.9	0.19	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluoropentanesulfonic acid (PFPeS)	**2.2**		1.9	0.29	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorohexanesulfonic acid (PFHxS)	**13**		1.9	0.55	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.27**	**J**	1.9	0.18	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorooctanesulfonic acid (PFOS)	**4.9**		1.9	0.52	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		03/24/22 12:40	03/25/22 10:08	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		03/24/22 12:40	03/25/22 10:08	1
NEtFOSA	<0.83		1.9	0.83	ng/L		03/24/22 12:40	03/25/22 10:08	1
NMeFOSA	<0.41		1.9	0.41	ng/L		03/24/22 12:40	03/25/22 10:08	1
NMeFOSAA	<1.1		4.8	1.1	ng/L		03/24/22 12:40	03/25/22 10:08	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		03/24/22 12:40	03/25/22 10:08	1
NMeFOSE	<1.3		3.8	1.3	ng/L		03/24/22 12:40	03/25/22 10:08	1
NEtFOSE	<0.81		1.9	0.81	ng/L		03/24/22 12:40	03/25/22 10:08	1
4:2 FTS	<0.23		1.9	0.23	ng/L		03/24/22 12:40	03/25/22 10:08	1
6:2 FTS	<2.4		4.8	2.4	ng/L		03/24/22 12:40	03/25/22 10:08	1
8:2 FTS	<0.44		1.9	0.44	ng/L		03/24/22 12:40	03/25/22 10:08	1
10:2 FTS	<0.64		1.9	0.64	ng/L		03/24/22 12:40	03/25/22 10:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		03/24/22 12:40	03/25/22 10:08	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		03/24/22 12:40	03/25/22 10:08	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		03/24/22 12:40	03/25/22 10:08	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		03/24/22 12:40	03/25/22 10:08	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89*		*25 - 150*	*03/24/22 12:40*	*03/25/22 10:08*	*1*
13C5 PFPeA	*87*		*25 - 150*	*03/24/22 12:40*	*03/25/22 10:08*	*1*
13C2 PFHxA	*95*		*25 - 150*	*03/24/22 12:40*	*03/25/22 10:08*	*1*
13C4 PFHpA	*98*		*25 - 150*	*03/24/22 12:40*	*03/25/22 10:08*	*1*
13C4 PFOA	*101*		*25 - 150*	*03/24/22 12:40*	*03/25/22 10:08*	*1*

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

Job ID: 500-214048-1

Client Sample ID: Entry Point-Line 1
Date Collected: 03/23/22 08:54
Date Received: 03/24/22 09:15

Lab Sample ID: 500-214048-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	95		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C2 PFDA	103		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C2 PFUnA	95		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C2 PFDoA	90		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C2 PFTeDA	90		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C2 PFHxDA	95		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C3 PFBS	98		25 - 150	03/24/22 12:40	03/25/22 10:08	1
18O2 PFHxS	107		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C4 PFOS	104		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C8 FOSA	112		10 - 150	03/24/22 12:40	03/25/22 10:08	1
d3-NMeFOSAA	92		25 - 150	03/24/22 12:40	03/25/22 10:08	1
d5-NEtFOSAA	94		25 - 150	03/24/22 12:40	03/25/22 10:08	1
d-N-MeFOSA-M	91		10 - 150	03/24/22 12:40	03/25/22 10:08	1
d-N-EtFOSA-M	76		10 - 150	03/24/22 12:40	03/25/22 10:08	1
d7-N-MeFOSE-M	78		10 - 150	03/24/22 12:40	03/25/22 10:08	1
d9-N-EtFOSE-M	72		10 - 150	03/24/22 12:40	03/25/22 10:08	1
M2-4:2 FTS	95		25 - 150	03/24/22 12:40	03/25/22 10:08	1
M2-6:2 FTS	102		25 - 150	03/24/22 12:40	03/25/22 10:08	1
M2-8:2 FTS	98		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C3 HFPO-DA	97		25 - 150	03/24/22 12:40	03/25/22 10:08	1
13C2 10:2 FTS	90		25 - 150	03/24/22 12:40	03/25/22 10:08	1

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

Job ID: 500-214048-1

Client Sample ID: EP-Field Blank

Date Collected: 03/23/22 08:55
Date Received: 03/24/22 09:15

Lab Sample ID: 500-214048-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.8	2.3	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluoropentanoic acid (PFPeA)	<0.47		1.9	0.47	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorohexanoic acid (PFHxA)	<0.56		1.9	0.56	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluoroheptanoic acid (PFHpA)	<0.24		1.9	0.24	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorooctanoic acid (PFOA)	<0.82		1.9	0.82	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		1.9	1.3	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.86		1.9	0.86	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.91		1.9	0.91	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluoropentanesulfonic acid (PFPeS)	<0.29		1.9	0.29	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorohexanesulfonic acid (PFHxS)	<0.55		1.9	0.55	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorooctanesulfonic acid (PFOS)	<0.52		1.9	0.52	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		03/24/22 12:40	03/25/22 06:09	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		03/24/22 12:40	03/25/22 06:09	1
NEtFOSA	<0.84		1.9	0.84	ng/L		03/24/22 12:40	03/25/22 06:09	1
NMeFOSA	<0.41		1.9	0.41	ng/L		03/24/22 12:40	03/25/22 06:09	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		03/24/22 12:40	03/25/22 06:09	1
NEtFOSAA	<1.3		4.8	1.3	ng/L		03/24/22 12:40	03/25/22 06:09	1
NMeFOSE	<1.3		3.9	1.3	ng/L		03/24/22 12:40	03/25/22 06:09	1
NEtFOSE	<0.82		1.9	0.82	ng/L		03/24/22 12:40	03/25/22 06:09	1
4:2 FTS	<0.23		1.9	0.23	ng/L		03/24/22 12:40	03/25/22 06:09	1
6:2 FTS	<2.4		4.8	2.4	ng/L		03/24/22 12:40	03/25/22 06:09	1
8:2 FTS	<0.44		1.9	0.44	ng/L		03/24/22 12:40	03/25/22 06:09	1
10:2 FTS	<0.65		1.9	0.65	ng/L		03/24/22 12:40	03/25/22 06:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		1.9	0.39	ng/L		03/24/22 12:40	03/25/22 06:09	1
HFPO-DA (GenX)	<1.4		3.9	1.4	ng/L		03/24/22 12:40	03/25/22 06:09	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		03/24/22 12:40	03/25/22 06:09	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		03/24/22 12:40	03/25/22 06:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*
13C5 PFPeA	*89*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*
13C2 PFHxA	*96*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*
13C4 PFHpA	*104*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*
13C4 PFOA	*101*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*
13C5 PFNA	*99*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*
13C2 PFDA	*101*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*
13C2 PFUnA	*103*		*25 - 150*	*03/24/22 12:40*	*03/25/22 06:09*	*1*

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

Job ID: 500-214048-1

Client Sample ID: EP-Field Blank
Date Collected: 03/23/22 08:55
Date Received: 03/24/22 09:15

Lab Sample ID: 500-214048-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	93		25 - 150	03/24/22 12:40	03/25/22 06:09	1
13C2 PFTeDA	100		25 - 150	03/24/22 12:40	03/25/22 06:09	1
13C2 PFHxDA	92		25 - 150	03/24/22 12:40	03/25/22 06:09	1
13C3 PFBS	97		25 - 150	03/24/22 12:40	03/25/22 06:09	1
18O2 PFHxS	102		25 - 150	03/24/22 12:40	03/25/22 06:09	1
13C4 PFOS	97		25 - 150	03/24/22 12:40	03/25/22 06:09	1
13C8 FOSA	107		10 - 150	03/24/22 12:40	03/25/22 06:09	1
d3-NMeFOSAA	95		25 - 150	03/24/22 12:40	03/25/22 06:09	1
d5-NEtFOSAA	105		25 - 150	03/24/22 12:40	03/25/22 06:09	1
d-N-MeFOSA-M	74		10 - 150	03/24/22 12:40	03/25/22 06:09	1
d-N-EtFOSA-M	77		10 - 150	03/24/22 12:40	03/25/22 06:09	1
d7-N-MeFOSE-M	89		10 - 150	03/24/22 12:40	03/25/22 06:09	1
d9-N-EtFOSE-M	90		10 - 150	03/24/22 12:40	03/25/22 06:09	1
M2-4:2 FTS	94		25 - 150	03/24/22 12:40	03/25/22 06:09	1
M2-6:2 FTS	92		25 - 150	03/24/22 12:40	03/25/22 06:09	1
M2-8:2 FTS	94		25 - 150	03/24/22 12:40	03/25/22 06:09	1
13C3 HFPO-DA	99		25 - 150	03/24/22 12:40	03/25/22 06:09	1
13C2 10:2 FTS	92		25 - 150	03/24/22 12:40	03/25/22 06:09	1

Definitions/Glossary

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

Job ID: 500-214048-1

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.
¤	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: 500-214048-1

LCMS

Prep Batch: 575539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214048-1	Entry Point-Line 1	Total/NA	Water	3535	
500-214048-2	EP-Field Blank	Total/NA	Water	3535	
MB 320-575539/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-575539/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-575539/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 575687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214048-2	EP-Field Blank	Total/NA	Water	537 (modified)	575539
MB 320-575539/1-A	Method Blank	Total/NA	Water	537 (modified)	575539
LCS 320-575539/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	575539
LCSD 320-575539/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	575539

Analysis Batch: 575692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214048-1	Entry Point-Line 1	Total/NA	Water	537 (modified)	575539

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-575539/1-A
Matrix: Water
Analysis Batch: 575687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575539

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		03/24/22 12:40	03/25/22 05:28	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		03/24/22 12:40	03/25/22 05:28	1
NEtFOSA	<0.87		2.0	0.87	ng/L		03/24/22 12:40	03/25/22 05:28	1
NMeFOSA	<0.43		2.0	0.43	ng/L		03/24/22 12:40	03/25/22 05:28	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		03/24/22 12:40	03/25/22 05:28	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		03/24/22 12:40	03/25/22 05:28	1
NMeFOSE	<1.4		4.0	1.4	ng/L		03/24/22 12:40	03/25/22 05:28	1
NEtFOSE	<0.85		2.0	0.85	ng/L		03/24/22 12:40	03/25/22 05:28	1
4:2 FTS	<0.24		2.0	0.24	ng/L		03/24/22 12:40	03/25/22 05:28	1
6:2 FTS	<2.5		5.0	2.5	ng/L		03/24/22 12:40	03/25/22 05:28	1
8:2 FTS	<0.46		2.0	0.46	ng/L		03/24/22 12:40	03/25/22 05:28	1
10:2 FTS	<0.67		2.0	0.67	ng/L		03/24/22 12:40	03/25/22 05:28	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		03/24/22 12:40	03/25/22 05:28	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		03/24/22 12:40	03/25/22 05:28	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		03/24/22 12:40	03/25/22 05:28	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		03/24/22 12:40	03/25/22 05:28	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90*		*25 - 150*	*03/24/22 12:40*	*03/25/22 05:28*	*1*
13C5 PFPeA	*81*		*25 - 150*	*03/24/22 12:40*	*03/25/22 05:28*	*1*
13C2 PFHxA	*86*		*25 - 150*	*03/24/22 12:40*	*03/25/22 05:28*	*1*
13C4 PFHpA	*89*		*25 - 150*	*03/24/22 12:40*	*03/25/22 05:28*	*1*
13C4 PFOA	*93*		*25 - 150*	*03/24/22 12:40*	*03/25/22 05:28*	*1*
13C5 PFNA	*86*		*25 - 150*	*03/24/22 12:40*	*03/25/22 05:28*	*1*

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

Lab Sample ID: MB 320-575539/1-A
Matrix: Water
Analysis Batch: 575687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575539

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	89		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C2 PFUnA	85		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C2 PFDoA	86		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C2 PFTeDA	88		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C2 PFHxDA	86		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C3 PFBS	87		25 - 150	03/24/22 12:40	03/25/22 05:28	1
18O2 PFHxS	97		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C4 PFOS	90		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C8 FOSA	99		10 - 150	03/24/22 12:40	03/25/22 05:28	1
d3-NMeFOSAA	89		25 - 150	03/24/22 12:40	03/25/22 05:28	1
d5-NEtFOSAA	95		25 - 150	03/24/22 12:40	03/25/22 05:28	1
d-N-MeFOSA-M	67		10 - 150	03/24/22 12:40	03/25/22 05:28	1
d-N-EtFOSA-M	68		10 - 150	03/24/22 12:40	03/25/22 05:28	1
d7-N-MeFOSE-M	80		10 - 150	03/24/22 12:40	03/25/22 05:28	1
d9-N-EtFOSE-M	79		10 - 150	03/24/22 12:40	03/25/22 05:28	1
M2-4:2 FTS	84		25 - 150	03/24/22 12:40	03/25/22 05:28	1
M2-6:2 FTS	83		25 - 150	03/24/22 12:40	03/25/22 05:28	1
M2-8:2 FTS	79		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C3 HFPO-DA	91		25 - 150	03/24/22 12:40	03/25/22 05:28	1
13C2 10:2 FTS	87		25 - 150	03/24/22 12:40	03/25/22 05:28	1

Lab Sample ID: LCS 320-575539/2-A
Matrix: Water
Analysis Batch: 575687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	40.5		ng/L		101	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	42.2		ng/L		105	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	37.5		ng/L		94	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	42.9		ng/L		107	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	38.3		ng/L		96	60 - 135
Perfluorononanoic acid (PFNA)	40.0	39.9		ng/L		100	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	31.3		ng/L		78	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	42.7		ng/L		107	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.8		ng/L		104	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	41.2		ng/L		103	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	39.1		ng/L		98	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	38.9		ng/L		97	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	25.4		ng/L		63	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	35.9		ng/L		102	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	36.6		ng/L		97	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.8		ng/L		93	60 - 135

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

Lab Sample ID: LCS 320-575539/2-A
Matrix: Water
Analysis Batch: 575687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.1		ng/L		100	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	35.3		ng/L		95	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	40.2		ng/L		105	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	36.5		ng/L		95	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.5		ng/L		97	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	35.4		ng/L		88	60 - 135
NEtFOSA	40.0	41.0		ng/L		102	60 - 135
NMeFOSA	40.0	42.6		ng/L		106	60 - 135
NMeFOSAA	40.0	40.8		ng/L		102	60 - 135
NEtFOSAA	40.0	37.1		ng/L		93	60 - 135
NMeFOSE	40.0	39.8		ng/L		100	60 - 135
NEtFOSE	40.0	43.4		ng/L		108	60 - 135
4:2 FTS	37.4	40.7		ng/L		109	60 - 135
6:2 FTS	37.9	35.5		ng/L		94	60 - 135
8:2 FTS	38.3	40.4		ng/L		105	60 - 135
10:2 FTS	38.6	36.6		ng/L		95	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	39.1		ng/L		104	60 - 135
HFPO-DA (GenX)	40.0	46.4		ng/L		116	60 - 135
9Cl-PF3ONS	37.3	37.6		ng/L		101	60 - 135
11Cl-PF3OUdS	37.7	39.4		ng/L		105	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*100*		*25 - 150*
13C5 PFPeA	*91*		*25 - 150*
13C2 PFHxA	*98*		*25 - 150*
13C4 PFHpA	*101*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*94*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C2 PFUnA	*98*		*25 - 150*
13C2 PFDoA	*99*		*25 - 150*
13C2 PFTeDA	*94*		*25 - 150*
13C2 PFHxDA	*90*		*25 - 150*
13C3 PFBS	*98*		*25 - 150*
18O2 PFHxS	*102*		*25 - 150*
13C4 PFOS	*99*		*25 - 150*
13C8 FOSA	*105*		*10 - 150*
d3-NMeFOSAA	*98*		*25 - 150*
d5-NEtFOSAA	*101*		*25 - 150*
d-N-MeFOSA-M	*76*		*10 - 150*
d-N-EtFOSA-M	*77*		*10 - 150*
d7-N-MeFOSE-M	*90*		*10 - 150*
d9-N-EtFOSE-M	*85*		*10 - 150*

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

Lab Sample ID: LCS 320-575539/2-A
Matrix: Water
Analysis Batch: 575687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575539

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*97*		*25 - 150*
M2-6:2 FTS	*88*		*25 - 150*
M2-8:2 FTS	*85*		*25 - 150*
13C3 HFPO-DA	*89*		*25 - 150*
13C2 10:2 FTS	*99*		*25 - 150*

Lab Sample ID: LCSD 320-575539/3-A
Matrix: Water
Analysis Batch: 575687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 575539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	42.5		ng/L		106	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)			40.0	41.5		ng/L		104	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)			40.0	39.3		ng/L		98	60 - 135	5	30
Perfluoroheptanoic acid (PFHpA)			40.0	42.4		ng/L		106	60 - 135	1	30
Perfluorooctanoic acid (PFOA)			40.0	40.5		ng/L		101	60 - 135	6	30
Perfluorononanoic acid (PFNA)			40.0	41.8		ng/L		104	60 - 135	5	30
Perfluorodecanoic acid (PFDA)			40.0	35.3		ng/L		88	60 - 135	12	30
Perfluoroundecanoic acid (PFUnA)			40.0	41.7		ng/L		104	60 - 135	2	30
Perfluorododecanoic acid (PFDoA)			40.0	41.9		ng/L		105	60 - 135	0	30
Perfluorotridecanoic acid (PFTrDA)			40.0	41.7		ng/L		104	60 - 135	1	30
Perfluorotetradecanoic acid (PFTeA)			40.0	40.4		ng/L		101	60 - 135	3	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	37.8		ng/L		95	60 - 135	3	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	30.8		ng/L		77	60 - 135	19	30
Perfluorobutanesulfonic acid (PFBS)			35.4	37.1		ng/L		105	60 - 135	3	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	37.5		ng/L		100	60 - 135	2	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	35.7		ng/L		98	60 - 135	5	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	39.7		ng/L		104	60 - 135	4	30
Perfluorooctanesulfonic acid (PFOS)			37.1	38.5		ng/L		104	60 - 135	9	30
Perfluorononanesulfonic acid (PFNS)			38.4	42.8		ng/L		111	60 - 135	6	30
Perfluorodecanesulfonic acid (PFDS)			38.6	37.7		ng/L		98	60 - 135	3	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	40.6		ng/L		105	60 - 135	8	30
Perfluorooctanesulfonamide (FOSA)			40.0	36.4		ng/L		91	60 - 135	3	30
NEtFOSA			40.0	39.2		ng/L		98	60 - 135	4	30
NMeFOSA			40.0	41.5		ng/L		104	60 - 135	3	30
NMeFOSAA			40.0	43.4		ng/L		108	60 - 135	6	30
NEtFOSAA			40.0	37.2		ng/L		93	60 - 135	0	30
NMeFOSE			40.0	44.6		ng/L		111	60 - 135	11	30

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

Lab Sample ID: LCSD 320-575539/3-A
Matrix: Water
Analysis Batch: 575687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 575539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE			40.0	40.9		ng/L		102	60 - 135	6	30
4:2 FTS			37.4	42.0		ng/L		112	60 - 135	3	30
6:2 FTS			37.9	40.1		ng/L		106	60 - 135	12	30
8:2 FTS			38.3	39.8		ng/L		104	60 - 135	2	30
10:2 FTS			38.6	36.3		ng/L		94	60 - 135	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	41.8		ng/L		111	60 - 135	7	30
HFPO-DA (GenX)			40.0	42.3		ng/L		106	60 - 135	9	30
9Cl-PF3ONS			37.3	40.7		ng/L		109	60 - 135	8	30
11Cl-PF3OUdS			37.7	41.5		ng/L		110	60 - 135	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*103*		*25 - 150*
13C5 PFPeA	*90*		*25 - 150*
13C2 PFHxA	*101*		*25 - 150*
13C4 PFHpA	*103*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*97*		*25 - 150*
13C2 PFDA	*104*		*25 - 150*
13C2 PFUnA	*98*		*25 - 150*
13C2 PFDoA	*100*		*25 - 150*
13C2 PFTeDA	*96*		*25 - 150*
13C2 PFHxDA	*104*		*25 - 150*
13C3 PFBS	*97*		*25 - 150*
18O2 PFHxS	*102*		*25 - 150*
13C4 PFOS	*99*		*25 - 150*
13C8 FOSA	*108*		*10 - 150*
d3-NMeFOSAA	*95*		*25 - 150*
d5-NEtFOSAA	*102*		*25 - 150*
d-N-MeFOSA-M	*77*		*10 - 150*
d-N-EtFOSA-M	*80*		*10 - 150*
d7-N-MeFOSE-M	*89*		*10 - 150*
d9-N-EtFOSE-M	*90*		*10 - 150*
M2-4:2 FTS	*85*		*25 - 150*
M2-6:2 FTS	*85*		*25 - 150*
M2-8:2 FTS	*90*		*25 - 150*
13C3 HFPO-DA	*98*		*25 - 150*
13C2 10:2 FTS	*100*		*25 - 150*

Lab Chronicle

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

Job ID: 500-214048-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-214048-1

Date Collected: 03/23/22 08:54

Matrix: Water

Date Received: 03/24/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			575539	03/24/22 12:40	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1	575692	03/25/22 10:08	AF	TAL SAC

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-214048-2

Date Collected: 03/23/22 08:55

Matrix: Water

Date Received: 03/24/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			575539	03/24/22 12:40	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1	575687	03/25/22 06:09	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: 500-214048-1

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

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

Chain of Custody Record

MKE 232

eurofins Environment Testing America

Client Information	Sampler: David Jadack	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-99697-43338.1
Client Contact: Ty Fadness	Phone: 715-839-6118	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: City of Eau Claire	PWSID:	Analysis Requested		Job #: 500-214048
Address: 1000 Ferry Street	Due Date Requested: 3/25/22			Preservation Codes
City: Eau Claire	TAT Requested (days): 1-Day TAT			A - HCL M - Hexane B - NaOH N None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q Na2SO3 F - MeOH R Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T TSP Dodecahydrate I - Ice U Acetone J - DI Water V MCAA K - EDTA W pH 4-5 L - EDA Z other (specify) Other:
State, Zip: WI, 54703	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 50220192-00			
Email: Tyler Fadness@EauclaireWi.Gov	WO #:			
Project Name: PFAS Testing	Project #: 50019745			
Site:	SSOW#:			

500-214048 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Ww=wastewater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Extended List (36 Analytes)	Total Number of containers	Special Instructions/Note
			Preservation Code:				N		
1 Entry Point - Line 1	3/23/2022	0854	G	Water			X		
2 EP - Field Blank	3/23/2022	0855	G	Water			X		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: David Jadack	Date/Time: 3/23/2022/0943	Company: City of EC	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver 06/08/2021

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

Chain of Custody Record

MKE 232

eurofins | Environment Testing America

Client Information	Sampler: David Jadack	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-99697-43338.1
Client Contact: Ty Fadness	Phone: 715-839-6118	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 2
Company: City of Eau Claire	PWSID:	Analysis Requested		Job #:
Address: 1000 Ferry Street	Due Date Requested: 3/25/22			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Eau Claire	TAT Requested (days): 1-Day TAT			
State, Zip: WI, 54703	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 50220192-00			
Email: Tyler.Fadness@EauclaireWi.Gov	WO #:			
Project Name: PFAS Testing	Project #: 50019745			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_WI - PFAS, Extended List (36 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
Entry Point-Line 1	3/23/2022	0854	G	Water			X		
EP-Field Blank	3/23/2022	0855	G	Water			X		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

500-214048 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
David Jadack	3/23/2022/0943	City of EC		3/24/22 915	EET
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☒ Yes Δ No	Custody Seal No.: 144692	Cooler Temperature(s) °C and Other Remarks: 1-7C

Ver: 06/08/2021

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3/25/2022

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-214048-1

Login Number: 214048
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: 500-214048-1

Login Number: 214048
List Number: 2
Creator: Her, David A

List Source: Eurofins Sacramento
List Creation: 03/24/22 10:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1946692
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7 c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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	

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Sacramento Sample Receiving Notes

500-214048 Field Sheet

Job: _____

Tracking # : 5632 2369 1348

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

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

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

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: 1446182

Cooler ID: _____

Temp Observed: 1.7 °C Corrected: 1.7 °C

From: Temp Blank ☒ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☒	☐	☐
Frozen samples show signs of thaw?	☐	☐	☒

Initials: DH Date: 3/24/22

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

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

Initials: DH Date: 3/24/22

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☒	☐	☐
Samples received within hold time?	☒	☐	☐
NCM Filed?	☐	☐	☒
Log Release checked in TALS?	☒	☐	☐

Initials: DH Date: 3/24/22

Isotope Dilution Summary

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

Job ID: 500-214048-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
500-214048-1	Entry Point-Line 1	89	87	95	98	101	95	103	95
500-214048-2	EP-Field Blank	103	89	96	104	101	99	101	103
LCS 320-575539/2-A	Lab Control Sample	100	91	98	101	102	94	97	98
LCSD 320-575539/3-A	Lab Control Sample Dup	103	90	101	103	102	97	104	98
MB 320-575539/1-A	Method Blank	90	81	86	89	93	86	89	85

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	PFHxDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(10-150)	(25-150)
500-214048-1	Entry Point-Line 1	90	90	95	98	107	104	112	92
500-214048-2	EP-Field Blank	93	100	92	97	102	97	107	95
LCS 320-575539/2-A	Lab Control Sample	99	94	90	98	102	99	105	98
LCSD 320-575539/3-A	Lab Control Sample Dup	100	96	104	97	102	99	108	95
MB 320-575539/1-A	Method Blank	86	88	86	87	97	90	99	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		d5NEFOS	dMeFOSA	dEtFOSA	NMFM	NEFM	M242FTS	M262FTS	M282FTS
Lab Sample ID	Client Sample ID	(25-150)	(10-150)	(10-150)	(10-150)	(10-150)	(25-150)	(25-150)	(25-150)
500-214048-1	Entry Point-Line 1	94	91	76	78	72	95	102	98
500-214048-2	EP-Field Blank	105	74	77	89	90	94	92	94
LCS 320-575539/2-A	Lab Control Sample	101	76	77	90	85	97	88	85
LCSD 320-575539/3-A	Lab Control Sample Dup	102	77	80	89	90	85	85	90
MB 320-575539/1-A	Method Blank	95	67	68	80	79	84	83	79

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		HFPODA	M102FTS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)
500-214048-1	Entry Point-Line 1	97	90
500-214048-2	EP-Field Blank	99	92
LCS 320-575539/2-A	Lab Control Sample	89	99
LCSD 320-575539/3-A	Lab Control Sample Dup	98	100
MB 320-575539/1-A	Method Blank	91	87

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

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

Job ID: 500-214048-1

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