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ANALYTICAL REPORT

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

Laboratory Job ID: 500-211165-1
Client Project/Site: PFAS Testing

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

Attn: Ty Fadness

Sandra Fredrick

Authorized for release by:
1/21/2022 3:37:36 PM

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Case Narrative

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

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Narrative

Job Narrative
500-211165-1

Comments
No additional comments.

Receipt
The samples were received on 1/20/2022 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice.

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 320-559530. 320-559530 Method: PFC_IDA_WI Matrix: Water

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: 500-211165-1

Client Sample ID: Entry Point-Line 1 — Lab Sample ID: 500-211165-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.1	J	4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.4	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.6	J	1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.72	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.62	J	1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.9		1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	11		1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.28	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5		1.8	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EP-Field Blank — Lab Sample ID: 500-211165-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-211165-1

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: 500-211165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-211165-1	Entry Point-Line 1	Water	01/19/22 12:57	01/19/22 15:28
500-211165-2	EP-Field Blank	Water	01/19/22 12:59	01/19/22 15:28

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

Job ID: 500-211165-1

Client Sample ID: Entry Point-Line 1

Date Collected: 01/19/22 12:57
Date Received: 01/19/22 15:28

Lab Sample ID: 500-211165-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.1**	**J**	4.4	2.1	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluoropentanoic acid (PFPeA)	**1.4**	**J**	1.8	0.43	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorohexanoic acid (PFHxA)	**1.6**	**J**	1.8	0.51	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluoroheptanoic acid (PFHpA)	**0.72**	**J**	1.8	0.22	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorooctanoic acid (PFOA)	**2.1**		1.8	0.75	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorononanoic acid (PFNA)	**0.62**	**J**	1.8	0.24	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorodecanoic acid (PFDA)	<0.27		1.8	0.27	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluoroundecanoic acid (PFUnA)	<0.97		1.8	0.97	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.79		1.8	0.79	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.83		1.8	0.83	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**		1.8	0.18	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluoropentanesulfonic acid (PFPeS)	**1.9**		1.8	0.26	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorohexanesulfonic acid (PFHxS)	**11**		1.8	0.50	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.28**	**J**	1.8	0.17	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorooctanesulfonic acid (PFOS)	**4.5**		1.8	0.48	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorododecanesulfonic acid (PFDoS)	<0.86		1.8	0.86	ng/L		01/20/22 19:38	01/21/22 10:25	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		01/20/22 19:38	01/21/22 10:25	1
NEtFOSA	<0.77		1.8	0.77	ng/L		01/20/22 19:38	01/21/22 10:25	1
NMeFOSA	<0.38		1.8	0.38	ng/L		01/20/22 19:38	01/21/22 10:25	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		01/20/22 19:38	01/21/22 10:25	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		01/20/22 19:38	01/21/22 10:25	1
NMeFOSE	<1.2		3.5	1.2	ng/L		01/20/22 19:38	01/21/22 10:25	1
NEtFOSE	<0.75		1.8	0.75	ng/L		01/20/22 19:38	01/21/22 10:25	1
4:2 FTS	<0.21		1.8	0.21	ng/L		01/20/22 19:38	01/21/22 10:25	1
6:2 FTS	<2.2		4.4	2.2	ng/L		01/20/22 19:38	01/21/22 10:25	1
8:2 FTS	<0.41		1.8	0.41	ng/L		01/20/22 19:38	01/21/22 10:25	1
10:2 FTS	<0.59		1.8	0.59	ng/L		01/20/22 19:38	01/21/22 10:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		01/20/22 19:38	01/21/22 10:25	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		01/20/22 19:38	01/21/22 10:25	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		01/20/22 19:38	01/21/22 10:25	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		01/20/22 19:38	01/21/22 10:25	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*68*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:25*	*1*
13C5 PFPeA	*84*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:25*	*1*
13C2 PFHxA	*86*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:25*	*1*
13C4 PFHpA	*88*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:25*	*1*
13C4 PFOA	*92*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:25*	*1*

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

Job ID: 500-211165-1

Client Sample ID: Entry Point-Line 1
Date Collected: 01/19/22 12:57
Date Received: 01/19/22 15:28

Lab Sample ID: 500-211165-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	93		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C2 PFDA	85		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C2 PFUnA	79		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C2 PFDoA	84		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C2 PFTeDA	85		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C2 PFHxDA	85		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C3 PFBS	81		25 - 150	01/20/22 19:38	01/21/22 10:25	1
18O2 PFHxS	87		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C4 PFOS	84		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C8 FOSA	80		10 - 150	01/20/22 19:38	01/21/22 10:25	1
d3-NMeFOSAA	78		25 - 150	01/20/22 19:38	01/21/22 10:25	1
d5-NEtFOSAA	81		25 - 150	01/20/22 19:38	01/21/22 10:25	1
d-N-MeFOSA-M	68		10 - 150	01/20/22 19:38	01/21/22 10:25	1
d-N-EtFOSA-M	68		10 - 150	01/20/22 19:38	01/21/22 10:25	1
d7-N-MeFOSE-M	72		10 - 150	01/20/22 19:38	01/21/22 10:25	1
d9-N-EtFOSE-M	71		10 - 150	01/20/22 19:38	01/21/22 10:25	1
M2-4:2 FTS	99		25 - 150	01/20/22 19:38	01/21/22 10:25	1
M2-6:2 FTS	95		25 - 150	01/20/22 19:38	01/21/22 10:25	1
M2-8:2 FTS	87		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C3 HFPO-DA	83		25 - 150	01/20/22 19:38	01/21/22 10:25	1
13C2 10:2 FTS	80		25 - 150	01/20/22 19:38	01/21/22 10:25	1

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

Job ID: 500-211165-1

Client Sample ID: EP-Field Blank

Date Collected: 01/19/22 12:59
Date Received: 01/19/22 15:28

Lab Sample ID: 500-211165-2

Matrix: Water

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		01/20/22 19:38	01/21/22 10:35	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorohexanoic acid (PFHxA)	<0.50		1.7	0.50	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluoroheptanoic acid (PFHpA)	<0.21		1.7	0.21	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorooctanoic acid (PFOA)	<0.73		1.7	0.73	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorononanoic acid (PFNA)	<0.23		1.7	0.23	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorodecanoic acid (PFDA)	<0.26		1.7	0.26	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluoroundecanoic acid (PFUnA)	<0.94		1.7	0.94	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorotetradecanoic acid (PFTeA)	<0.62		1.7	0.62	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.76		1.7	0.76	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.80		1.7	0.80	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorooctanesulfonic acid (PFOS)	<0.46		1.7	0.46	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorodecanesulfonic acid (PFDS)	<0.27		1.7	0.27	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorododecanesulfonic acid (PFDoS)	<0.83		1.7	0.83	ng/L		01/20/22 19:38	01/21/22 10:35	1
Perfluorooctanesulfonamide (FOSA)	<0.84		1.7	0.84	ng/L		01/20/22 19:38	01/21/22 10:35	1
NEtFOSA	<0.74		1.7	0.74	ng/L		01/20/22 19:38	01/21/22 10:35	1
NMeFOSA	<0.37		1.7	0.37	ng/L		01/20/22 19:38	01/21/22 10:35	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		01/20/22 19:38	01/21/22 10:35	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		01/20/22 19:38	01/21/22 10:35	1
NMeFOSE	<1.2		3.4	1.2	ng/L		01/20/22 19:38	01/21/22 10:35	1
NEtFOSE	<0.73		1.7	0.73	ng/L		01/20/22 19:38	01/21/22 10:35	1
4:2 FTS	<0.20		1.7	0.20	ng/L		01/20/22 19:38	01/21/22 10:35	1
6:2 FTS	<2.1		4.3	2.1	ng/L		01/20/22 19:38	01/21/22 10:35	1
8:2 FTS	<0.39		1.7	0.39	ng/L		01/20/22 19:38	01/21/22 10:35	1
10:2 FTS	<0.57		1.7	0.57	ng/L		01/20/22 19:38	01/21/22 10:35	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.34		1.7	0.34	ng/L		01/20/22 19:38	01/21/22 10:35	1
HFPO-DA (GenX)	<1.3		3.4	1.3	ng/L		01/20/22 19:38	01/21/22 10:35	1
9Cl-PF3ONS	<0.20		1.7	0.20	ng/L		01/20/22 19:38	01/21/22 10:35	1
11Cl-PF3OUdS	<0.27		1.7	0.27	ng/L		01/20/22 19:38	01/21/22 10:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*93*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*
13C5 PFPeA	*98*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*
13C2 PFHxA	*95*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*
13C4 PFHpA	*98*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*
13C4 PFOA	*95*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*
13C5 PFNA	*99*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*
13C2 PFDA	*99*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*
13C2 PFUnA	*99*		*25 - 150*	*01/20/22 19:38*	*01/21/22 10:35*	*1*

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

Job ID: 500-211165-1

Client Sample ID: EP-Field Blank
Date Collected: 01/19/22 12:59
Date Received: 01/19/22 15:28

Lab Sample ID: 500-211165-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	95		25 - 150	01/20/22 19:38	01/21/22 10:35	1
13C2 PFTeDA	99		25 - 150	01/20/22 19:38	01/21/22 10:35	1
13C2 PFHxDA	90		25 - 150	01/20/22 19:38	01/21/22 10:35	1
13C3 PFBS	94		25 - 150	01/20/22 19:38	01/21/22 10:35	1
18O2 PFHxS	96		25 - 150	01/20/22 19:38	01/21/22 10:35	1
13C4 PFOS	95		25 - 150	01/20/22 19:38	01/21/22 10:35	1
13C8 FOSA	84		10 - 150	01/20/22 19:38	01/21/22 10:35	1
d3-NMeFOSAA	86		25 - 150	01/20/22 19:38	01/21/22 10:35	1
d5-NEtFOSAA	96		25 - 150	01/20/22 19:38	01/21/22 10:35	1
d-N-MeFOSA-M	77		10 - 150	01/20/22 19:38	01/21/22 10:35	1
d-N-EtFOSA-M	80		10 - 150	01/20/22 19:38	01/21/22 10:35	1
d7-N-MeFOSE-M	87		10 - 150	01/20/22 19:38	01/21/22 10:35	1
d9-N-EtFOSE-M	88		10 - 150	01/20/22 19:38	01/21/22 10:35	1
M2-4:2 FTS	105		25 - 150	01/20/22 19:38	01/21/22 10:35	1
M2-6:2 FTS	105		25 - 150	01/20/22 19:38	01/21/22 10:35	1
M2-8:2 FTS	107		25 - 150	01/20/22 19:38	01/21/22 10:35	1
13C3 HFPO-DA	86		25 - 150	01/20/22 19:38	01/21/22 10:35	1
13C2 10:2 FTS	95		25 - 150	01/20/22 19:38	01/21/22 10:35	1

Definitions/Glossary

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

Job ID: 500-211165-1

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: 500-211165-1

LCMS

Prep Batch: 559530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211165-1	Entry Point-Line 1	Total/NA	Water	3535	
500-211165-2	EP-Field Blank	Total/NA	Water	3535	
MB 320-559530/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-559530/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-559530/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 559614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211165-1	Entry Point-Line 1	Total/NA	Water	537 (modified)	559530
500-211165-2	EP-Field Blank	Total/NA	Water	537 (modified)	559530
MB 320-559530/1-A	Method Blank	Total/NA	Water	537 (modified)	559530
LCS 320-559530/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	559530
LCSD 320-559530/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	559530

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-559530/1-A
Matrix: Water
Analysis Batch: 559614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559530

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		01/20/22 19:38	01/21/22 09:54	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		01/20/22 19:38	01/21/22 09:54	1
NEtFOSA	<0.87		2.0	0.87	ng/L		01/20/22 19:38	01/21/22 09:54	1
NMeFOSA	<0.43		2.0	0.43	ng/L		01/20/22 19:38	01/21/22 09:54	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		01/20/22 19:38	01/21/22 09:54	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		01/20/22 19:38	01/21/22 09:54	1
NMeFOSE	<1.4		4.0	1.4	ng/L		01/20/22 19:38	01/21/22 09:54	1
NEtFOSE	<0.85		2.0	0.85	ng/L		01/20/22 19:38	01/21/22 09:54	1
4:2 FTS	<0.24		2.0	0.24	ng/L		01/20/22 19:38	01/21/22 09:54	1
6:2 FTS	<2.5		5.0	2.5	ng/L		01/20/22 19:38	01/21/22 09:54	1
8:2 FTS	<0.46		2.0	0.46	ng/L		01/20/22 19:38	01/21/22 09:54	1
10:2 FTS	<0.67		2.0	0.67	ng/L		01/20/22 19:38	01/21/22 09:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		01/20/22 19:38	01/21/22 09:54	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		01/20/22 19:38	01/21/22 09:54	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		01/20/22 19:38	01/21/22 09:54	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		01/20/22 19:38	01/21/22 09:54	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*97*		*25 - 150*	*01/20/22 19:38*	*01/21/22 09:54*	*1*
13C5 PFPeA	*98*		*25 - 150*	*01/20/22 19:38*	*01/21/22 09:54*	*1*
13C2 PFHxA	*96*		*25 - 150*	*01/20/22 19:38*	*01/21/22 09:54*	*1*
13C4 PFHpA	*106*		*25 - 150*	*01/20/22 19:38*	*01/21/22 09:54*	*1*
13C4 PFOA	*103*		*25 - 150*	*01/20/22 19:38*	*01/21/22 09:54*	*1*
13C5 PFNA	*104*		*25 - 150*	*01/20/22 19:38*	*01/21/22 09:54*	*1*

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

Lab Sample ID: MB 320-559530/1-A
Matrix: Water
Analysis Batch: 559614

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559530

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	102		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C2 PFUnA	109		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C2 PFDoA	106		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C2 PFTeDA	116		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C2 PFHxDA	105		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C3 PFBS	105		25 - 150	01/20/22 19:38	01/21/22 09:54	1
18O2 PFHxS	108		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C4 PFOS	103		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C8 FOSA	92		10 - 150	01/20/22 19:38	01/21/22 09:54	1
d3-NMeFOSAA	105		25 - 150	01/20/22 19:38	01/21/22 09:54	1
d5-NEtFOSAA	116		25 - 150	01/20/22 19:38	01/21/22 09:54	1
d-N-MeFOSA-M	84		10 - 150	01/20/22 19:38	01/21/22 09:54	1
d-N-EtFOSA-M	86		10 - 150	01/20/22 19:38	01/21/22 09:54	1
d7-N-MeFOSE-M	101		10 - 150	01/20/22 19:38	01/21/22 09:54	1
d9-N-EtFOSE-M	99		10 - 150	01/20/22 19:38	01/21/22 09:54	1
M2-4:2 FTS	101		25 - 150	01/20/22 19:38	01/21/22 09:54	1
M2-6:2 FTS	109		25 - 150	01/20/22 19:38	01/21/22 09:54	1
M2-8:2 FTS	110		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C3 HFPO-DA	93		25 - 150	01/20/22 19:38	01/21/22 09:54	1
13C2 10:2 FTS	109		25 - 150	01/20/22 19:38	01/21/22 09:54	1

Lab Sample ID: LCS 320-559530/2-A
Matrix: Water
Analysis Batch: 559614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	39.8		ng/L		99	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	33.5		ng/L		84	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.3		ng/L		98	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	39.4		ng/L		98	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	36.1		ng/L		90	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.9		ng/L		105	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	35.2		ng/L		88	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	40.3		ng/L		101	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	40.4		ng/L		101	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	41.5		ng/L		104	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	35.3		ng/L		88	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	38.4		ng/L		96	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	40.9		ng/L		102	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	28.1		ng/L		79	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	34.2		ng/L		91	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.8		ng/L		101	60 - 135

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

Lab Sample ID: LCS 320-559530/2-A
Matrix: Water
Analysis Batch: 559614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	35.0		ng/L		92	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	34.2		ng/L		92	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	35.8		ng/L		93	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	36.8		ng/L		95	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	36.9		ng/L		95	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	37.9		ng/L		95	60 - 135
NEtFOSA	40.0	38.9		ng/L		97	60 - 135
NMeFOSA	40.0	43.0		ng/L		108	60 - 135
NMeFOSAA	40.0	40.9		ng/L		102	60 - 135
NEtFOSAA	40.0	39.3		ng/L		98	60 - 135
NMeFOSE	40.0	41.8		ng/L		105	60 - 135
NEtFOSE	40.0	38.9		ng/L		97	60 - 135
4:2 FTS	37.4	36.2		ng/L		97	60 - 135
6:2 FTS	37.9	33.2		ng/L		88	60 - 135
8:2 FTS	38.3	38.7		ng/L		101	60 - 135
10:2 FTS	38.6	35.4		ng/L		92	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	38.5		ng/L		102	60 - 135
HFPO-DA (GenX)	40.0	39.1		ng/L		98	60 - 135
9Cl-PF3ONS	37.3	34.9		ng/L		94	60 - 135
11Cl-PF3OUdS	37.7	34.8		ng/L		92	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*103*		*25 - 150*
13C5 PFPeA	*105*		*25 - 150*
13C2 PFHxA	*100*		*25 - 150*
13C4 PFHpA	*106*		*25 - 150*
13C4 PFOA	*104*		*25 - 150*
13C5 PFNA	*97*		*25 - 150*
13C2 PFDA	*112*		*25 - 150*
13C2 PFUnA	*105*		*25 - 150*
13C2 PFDoA	*104*		*25 - 150*
13C2 PFTeDA	*115*		*25 - 150*
13C2 PFHxDA	*104*		*25 - 150*
13C3 PFBS	*104*		*25 - 150*
18O2 PFHxS	*100*		*25 - 150*
13C4 PFOS	*103*		*25 - 150*
13C8 FOSA	*95*		*10 - 150*
d3-NMeFOSAA	*106*		*25 - 150*
d5-NEtFOSAA	*113*		*25 - 150*
d-N-MeFOSA-M	*81*		*10 - 150*
d-N-EtFOSA-M	*87*		*10 - 150*
d7-N-MeFOSE-M	*94*		*10 - 150*
d9-N-EtFOSE-M	*98*		*10 - 150*

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

Lab Sample ID: LCS 320-559530/2-A
Matrix: Water
Analysis Batch: 559614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559530

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
M2-4:2 FTS	*109*		*25 - 150*
M2-6:2 FTS	*119*		*25 - 150*
M2-8:2 FTS	*119*		*25 - 150*
13C3 HFPO-DA	*98*		*25 - 150*
13C2 10:2 FTS	*109*		*25 - 150*

Lab Sample ID: LCSD 320-559530/3-A
Matrix: Water
Analysis Batch: 559614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559530

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	39.1		ng/L		98	60 - 135	2	30
Perfluoropentanoic acid (PFPeA)			40.0	34.6		ng/L		86	60 - 135	3	30
Perfluorohexanoic acid (PFHxA)			40.0	37.6		ng/L		94	60 - 135	4	30
Perfluoroheptanoic acid (PFHpA)			40.0	37.7		ng/L		94	60 - 135	4	30
Perfluorooctanoic acid (PFOA)			40.0	39.0		ng/L		97	60 - 135	8	30
Perfluorononanoic acid (PFNA)			40.0	35.6		ng/L		89	60 - 135	16	30
Perfluorodecanoic acid (PFDA)			40.0	35.4		ng/L		88	60 - 135	0	30
Perfluoroundecanoic acid (PFUnA)			40.0	38.8		ng/L		97	60 - 135	4	30
Perfluorododecanoic acid (PFDoA)			40.0	37.9		ng/L		95	60 - 135	6	30
Perfluorotridecanoic acid (PFTrDA)			40.0	36.6		ng/L		91	60 - 135	13	30
Perfluorotetradecanoic acid (PFTeA)			40.0	37.0		ng/L		93	60 - 135	5	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	39.8		ng/L		99	60 - 135	4	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	40.0		ng/L		100	60 - 135	2	30
Perfluorobutanesulfonic acid (PFBS)			35.4	31.3		ng/L		89	60 - 135	11	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	34.5		ng/L		92	60 - 135	1	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	35.9		ng/L		99	60 - 135	2	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	38.3		ng/L		101	60 - 135	9	30
Perfluorooctanesulfonic acid (PFOS)			37.1	33.9		ng/L		91	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)			38.4	37.4		ng/L		97	60 - 135	4	30
Perfluorodecanesulfonic acid (PFDS)			38.6	36.4		ng/L		94	60 - 135	1	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	34.6		ng/L		89	60 - 135	7	30
Perfluorooctanesulfonamide (FOSA)			40.0	38.2		ng/L		95	60 - 135	1	30
NEtFOSA			40.0	38.4		ng/L		96	60 - 135	1	30
NMeFOSA			40.0	42.4		ng/L		106	60 - 135	2	30
NMeFOSAA			40.0	40.7		ng/L		102	60 - 135	0	30
NEtFOSAA			40.0	37.4		ng/L		93	60 - 135	5	30
NMeFOSE			40.0	36.1		ng/L		90	60 - 135	15	30

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

Lab Sample ID: LCSD 320-559530/3-A
Matrix: Water
Analysis Batch: 559614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559530

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE			40.0	37.2		ng/L		93	60 - 135	5	30
4:2 FTS			37.4	39.8		ng/L		107	60 - 135	10	30
6:2 FTS			37.9	34.1		ng/L		90	60 - 135	3	30
8:2 FTS			38.3	39.3		ng/L		103	60 - 135	2	30
10:2 FTS			38.6	35.2		ng/L		91	60 - 135	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	37.1		ng/L		99	60 - 135	3	30
HFPO-DA (GenX)			40.0	41.5		ng/L		104	60 - 135	6	30
9Cl-PF3ONS			37.3	33.6		ng/L		90	60 - 135	4	30
11Cl-PF3OUdS			37.7	35.0		ng/L		93	60 - 135	0	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*86*		*25 - 150*
13C5 PFPeA	*86*		*25 - 150*
13C2 PFHxA	*92*		*25 - 150*
13C4 PFHpA	*92*		*25 - 150*
13C4 PFOA	*91*		*25 - 150*
13C5 PFNA	*96*		*25 - 150*
13C2 PFDA	*98*		*25 - 150*
13C2 PFUnA	*93*		*25 - 150*
13C2 PFDoA	*93*		*25 - 150*
13C2 PFTeDA	*96*		*25 - 150*
13C2 PFHxDA	*87*		*25 - 150*
13C3 PFBS	*89*		*25 - 150*
18O2 PFHxS	*90*		*25 - 150*
13C4 PFOS	*90*		*25 - 150*
13C8 FOSA	*77*		*10 - 150*
d3-NMeFOSAA	*87*		*25 - 150*
d5-NEtFOSAA	*94*		*25 - 150*
d-N-MeFOSA-M	*71*		*10 - 150*
d-N-EtFOSA-M	*74*		*10 - 150*
d7-N-MeFOSE-M	*87*		*10 - 150*
d9-N-EtFOSE-M	*88*		*10 - 150*
M2-4:2 FTS	*89*		*25 - 150*
M2-6:2 FTS	*98*		*25 - 150*
M2-8:2 FTS	*97*		*25 - 150*
13C3 HFPO-DA	*84*		*25 - 150*
13C2 10:2 FTS	*99*		*25 - 150*

Lab Chronicle

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

Job ID: 500-211165-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-211165-1

Date Collected: 01/19/22 12:57

Matrix: Water

Date Received: 01/19/22 15:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			559530	01/20/22 19:38	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	559614	01/21/22 10:25	AF	TAL SAC

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-211165-2

Date Collected: 01/19/22 12:59

Matrix: Water

Date Received: 01/19/22 15:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			559530	01/20/22 19:38	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	559614	01/21/22 10:35	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: 500-211165-1

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

eurofins | Environment Testing America

Client Information	Sampler: Tyler Fadness	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-96017-43001.1
Client Contact: Ty Fadness	Phone: 715-839-6121	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: City of Eau Claire	PWSID:	Analysis Requested		Job #:
Address: 1000 Ferry Street	Due Date Requested: 1/21/22			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 #: 50210879-00			
Email: Tyler.Fadness@EauclaireWi.Gov	WO #:			
Project Name: PFAS Testing	Project #: 50019745			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA_Wt - PFAS, Extended List (36 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
Entry Point - Line 1	1/19/22	1257	G	Water			X		
EP- Field Blank	1/19/22	1259	G	Water			X		
				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:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/19/22 1345	City of EC	[signature]	1/20/22 1040	EETCA
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.: 1802317 | Cooler Temperature(s) °C and Other Remarks: OB 0.1°C COC 0.2°C

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

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Client Information	Sampler: Tyler Fadness	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-98017-43001.1
Client Contact: Ty Fadness	Phone: 715-839-6121	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: City of Eau Claire	PWSID:			Job #:
Address: 1000 Ferry Street	Due Date Requested: 1/21/22			
City: Eau Claire	TAT Requested (days): 1-Day TAT			
State, Zip: WI, 54703	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 50210879-00			
Email: Tyler.Fadness@EauclaireWi.Gov	WO #:			
Project Name: PFAS Testing	Project #: 50019745			
Site:	SSOW#:			

Analysis Requested

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)

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	1/19/22	1257	G	Water			X		
EP- Field Blank	1/19/22	1259	G	Water			X		
				Water					
				Water					
				Water					
				Water					
				Water					

500-211165 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
1		1/19/22 1345	City of EC		1/20/22 1040	FEDEX
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 1802317

Cooler Temperature(s) °C and Other Remarks: OB 0.6° corr 0.2°

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-211165-1

Login Number: 211165
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: 500-211165-1

Login Number: 211165
List Number: 2
Creator: Nelson, Kym D

List Source: Eurofins Sacramento
List Creation: 01/20/22 12:40 PM

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	1802317
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	ob 0.6C, corr 0.2C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento
Sample Receiving Notes

500-211165 Field Sheet

Job: _____

Tracking # : 5418 0593 8400

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-03 Corr. Factor: (+ / -) 0.4 °C

Ice X Wet _____ Gel _____ Other _____

Cooler Custody Seal: 18D2317

Cooler ID: _____

Temp Observed: 0.6 °C Corrected: 0.2 °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: PT Date: 1/20/22

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")

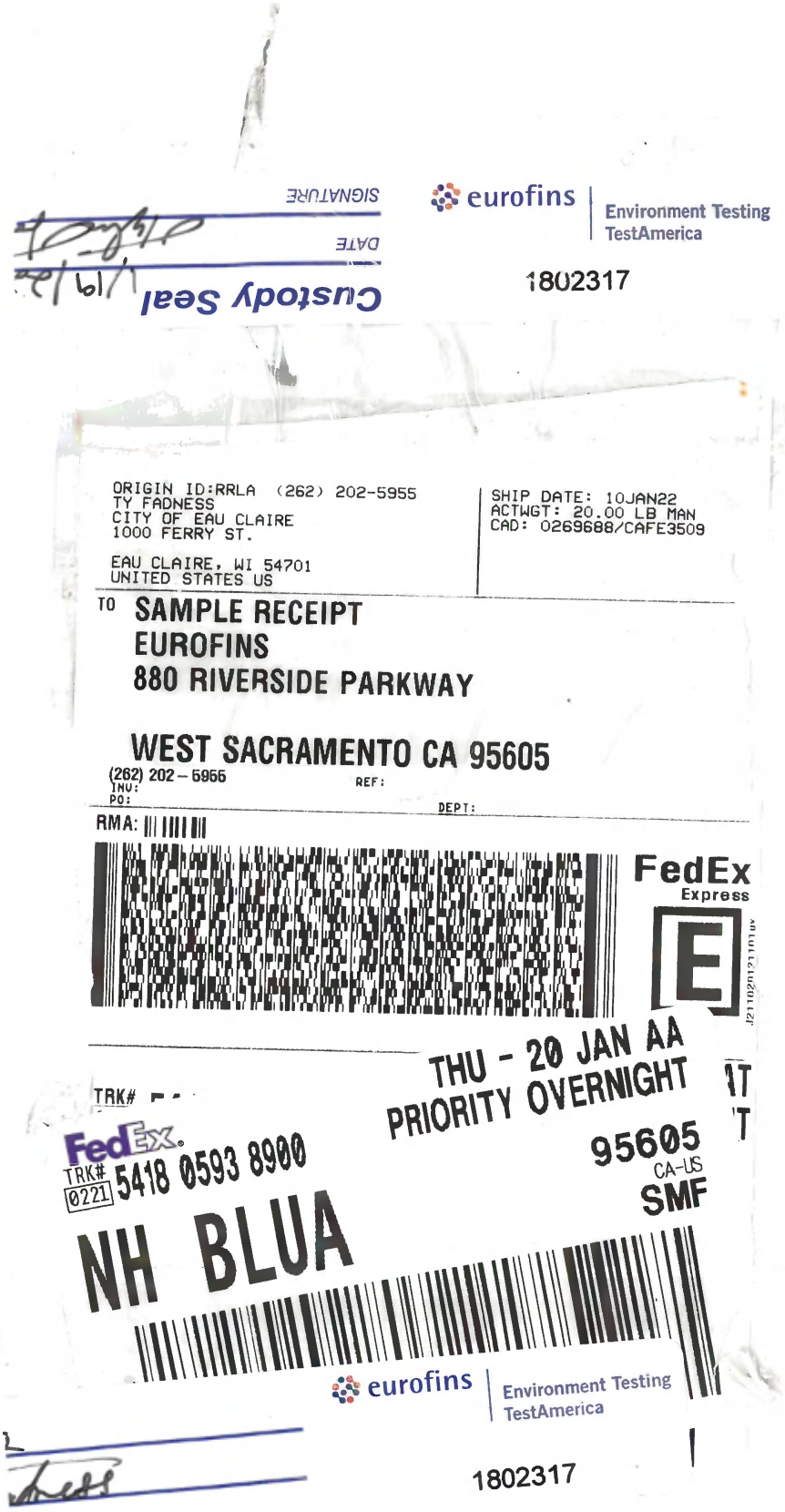
Initials: PT Date: 1/20/22

Notes: _____

Trizma Lot #(s): No Trizma

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

Initials: DV Date: 1/20/22


SIGNATURE
DATE
Custody Seal
eurofins
Environment Testing
TestAmerica
1802317
ORIGIN ID:RRLA (262) 202-5955
TY FADNESS
CITY OF EAU CLAIRE
1000 FERRY ST.
EAU CLAIRE, WI 54701
UNITED STATES US
SHIP DATE: 10JAN22
ACTWGT: 20.00 LB MAN
CAD: 0269688/CAFE3509
TO SAMPLE RECEIPT
EUROFINS
880 RIVERSIDE PARKWAY
WEST SACRAMENTO CA 95605
(262) 202-5955
INV:
PO:
REF:
DEPT:
RMA:
FedEx
Express
THU - 20 JAN AA
PRIORITY OVERNIGHT
TRK#
FedEx
TRK#
0221
5418 0593 8900
95605
CA-US
SMF
NH BLUA
eurofins
Environment Testing
TestAmerica
1802317

Isotope Dilution Summary

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

Job ID: 500-211165-1

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)
500-211165-1	Entry Point-Line 1	68	84	86	88	92	93	85	79
500-211165-2	EP-Field Blank	93	98	95	98	95	99	99	99
LCS 320-559530/2-A	Lab Control Sample	103	105	100	106	104	97	112	105
LCSD 320-559530/3-A	Lab Control Sample Dup	86	86	92	92	91	96	98	93
MB 320-559530/1-A	Method Blank	97	98	96	106	103	104	102	109

		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)
500-211165-1	Entry Point-Line 1	84	85	85	81	87	84	80	78
500-211165-2	EP-Field Blank	95	99	90	94	96	95	84	86
LCS 320-559530/2-A	Lab Control Sample	104	115	104	104	100	103	95	106
LCSD 320-559530/3-A	Lab Control Sample Dup	93	96	87	89	90	90	77	87
MB 320-559530/1-A	Method Blank	106	116	105	105	108	103	92	105

		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)
500-211165-1	Entry Point-Line 1	81	68	68	72	71	99	95	87
500-211165-2	EP-Field Blank	96	77	80	87	88	105	105	107
LCS 320-559530/2-A	Lab Control Sample	113	81	87	94	98	109	119	119
LCSD 320-559530/3-A	Lab Control Sample Dup	94	71	74	87	88	89	98	97
MB 320-559530/1-A	Method Blank	116	84	86	101	99	101	109	110

		Percent Isotope Dilution Recovery (Acceptance Limits)	
		HFPODA	M102FTS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)
500-211165-1	Entry Point-Line 1	83	80
500-211165-2	EP-Field Blank	86	95
LCS 320-559530/2-A	Lab Control Sample	98	109
LCSD 320-559530/3-A	Lab Control Sample Dup	84	99
MB 320-559530/1-A	Method Blank	93	109

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: 500-211165-1

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