eurofins | Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 500-224169-1
Client Project/Site: PFAS Testing

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

Attn: Ty Fadness

Authorized for release by:
11/2/2022 8:38:11 AM

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Table of Contents

Case Narrative

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

Job ID: 500-224169-1

Job ID: 500-224169-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-224169-1

Comments
No additional comments.

Receipt
The samples were received on 10/20/2022 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2º C.

LCMS
Method 537 (modified): The matrix spike duplicate (MSD) recoveries for preparation batch 320-626512 and analytical batch 320-628473 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method 537 (modified): The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 320-626512 and analytical batch 320-628473 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

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

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

Detection Summary

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

Job ID: 500-224169-1

Client Sample ID: Entry Point-Line 1 — Lab Sample ID: 500-224169-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.0		4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.8		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.8	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.5		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.1		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	19		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.9		1.8	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EP-Field Blank — Lab Sample ID: 500-224169-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-224169-1

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

EET 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: 500-224169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-224169-1	Entry Point-Line 1	Water	10/19/22 12:06	10/20/22 09:20
500-224169-2	EP-Field Blank	Water	10/19/22 12:10	10/20/22 09:20

Client Sample ID: Entry Point-Line 1
Date Collected: 10/19/22 12:06
Date Received: 10/20/22 09:20

Lab Sample ID: 500-224169-1
Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.0**		4.6	2.2	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluoropentanoic acid (PFPeA)	**2.8**		1.8	0.45	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorohexanoic acid (PFHxA)	**2.2**		1.8	0.54	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluoroheptanoic acid (PFHpA)	**1.1**	**J**	1.8	0.23	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorooctanoic acid (PFOA)	**2.1**		1.8	0.78	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.87		1.8	0.87	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorobutanesulfonic acid (PFBS)	**3.5**		1.8	0.18	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluoropentanesulfonic acid (PFPeS)	**3.1**		1.8	0.28	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorohexanesulfonic acid (PFHxS)	**19**		1.8	0.53	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.8	0.18	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorooctanesulfonic acid (PFOS)	**6.9**		1.8	0.50	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.8	0.30	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		10/21/22 12:10	10/29/22 12:51	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		10/21/22 12:10	10/29/22 12:51	1
NEtFOSA	<0.80		1.8	0.80	ng/L		10/21/22 12:10	10/29/22 12:51	1
NMeFOSA	<0.40		1.8	0.40	ng/L		10/21/22 12:10	10/29/22 12:51	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		10/21/22 12:10	10/29/22 12:51	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		10/21/22 12:10	10/29/22 12:51	1
NMeFOSE	<1.3		3.7	1.3	ng/L		10/21/22 12:10	10/29/22 12:51	1
NEtFOSE	<0.78		1.8	0.78	ng/L		10/21/22 12:10	10/29/22 12:51	1
4:2 FTS	<0.22		1.8	0.22	ng/L		10/21/22 12:10	10/29/22 12:51	1
6:2 FTS	<2.3		4.6	2.3	ng/L		10/21/22 12:10	10/29/22 12:51	1
8:2 FTS	<0.42		1.8	0.42	ng/L		10/21/22 12:10	10/29/22 12:51	1
10:2 FTS	<0.62		1.8	0.62	ng/L		10/21/22 12:10	10/29/22 12:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		10/21/22 12:10	10/29/22 12:51	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		10/21/22 12:10	10/29/22 12:51	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		10/21/22 12:10	10/29/22 12:51	1
11Cl-PF3OUdS	<0.30		1.8	0.30	ng/L		10/21/22 12:10	10/29/22 12:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*10/21/22 12:10*	*10/29/22 12:51*	*1*
13C5 PFPeA	*96*		*25 - 150*	*10/21/22 12:10*	*10/29/22 12:51*	*1*
13C2 PFHxA	*86*		*25 - 150*	*10/21/22 12:10*	*10/29/22 12:51*	*1*
13C4 PFHpA	*91*		*25 - 150*	*10/21/22 12:10*	*10/29/22 12:51*	*1*
13C4 PFOA	*95*		*25 - 150*	*10/21/22 12:10*	*10/29/22 12:51*	*1*

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

Job ID: 500-224169-1

Client Sample ID: Entry Point-Line 1
Date Collected: 10/19/22 12:06
Date Received: 10/20/22 09:20

Lab Sample ID: 500-224169-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	99		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C2 PFDA	95		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C2 PFUnA	80		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C2 PFDoA	75		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C2 PFTeDA	84		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C2 PFHxDA	95		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C3 PFBS	84		25 - 150	10/21/22 12:10	10/29/22 12:51	1
18O2 PFHxS	90		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C4 PFOS	97		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C8 FOSA	94		10 - 150	10/21/22 12:10	10/29/22 12:51	1
d3-NMeFOSAA	75		25 - 150	10/21/22 12:10	10/29/22 12:51	1
d5-NEtFOSAA	75		25 - 150	10/21/22 12:10	10/29/22 12:51	1
d-N-MeFOSA-M	74		10 - 150	10/21/22 12:10	10/29/22 12:51	1
d-N-EtFOSA-M	80		10 - 150	10/21/22 12:10	10/29/22 12:51	1
d7-N-MeFOSE-M	71		10 - 150	10/21/22 12:10	10/29/22 12:51	1
d9-N-EtFOSE-M	65		10 - 150	10/21/22 12:10	10/29/22 12:51	1
M2-4:2 FTS	86		25 - 150	10/21/22 12:10	10/29/22 12:51	1
M2-6:2 FTS	89		25 - 150	10/21/22 12:10	10/29/22 12:51	1
M2-8:2 FTS	79		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C3 HFPO-DA	88		25 - 150	10/21/22 12:10	10/29/22 12:51	1
13C2 10:2 FTS	70		25 - 150	10/21/22 12:10	10/29/22 12:51	1

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

Job ID: 500-224169-1

Client Sample ID: EP-Field Blank

Date Collected: 10/19/22 12:10
Date Received: 10/20/22 09:20

Lab Sample ID: 500-224169-2

Matrix: Water

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.3		4.7	2.3	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorooctanoic acid (PFOA)	<0.80		1.9	0.80	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.84		1.9	0.84	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorobutanesulfonic acid (PFBS)	<0.19		1.9	0.19	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorohexanesulfonic acid (PFHxS)	<0.54		1.9	0.54	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.18		1.9	0.18	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorooctanesulfonic acid (PFOS)	<0.51		1.9	0.51	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		10/21/22 12:10	10/29/22 13:01	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		10/21/22 12:10	10/29/22 13:01	1
NEtFOSA	<0.82		1.9	0.82	ng/L		10/21/22 12:10	10/29/22 13:01	1
NMeFOSA	<0.40		1.9	0.40	ng/L		10/21/22 12:10	10/29/22 13:01	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		10/21/22 12:10	10/29/22 13:01	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		10/21/22 12:10	10/29/22 13:01	1
NMeFOSE	<1.3		3.8	1.3	ng/L		10/21/22 12:10	10/29/22 13:01	1
NEtFOSE	<0.80		1.9	0.80	ng/L		10/21/22 12:10	10/29/22 13:01	1
4:2 FTS	<0.23		1.9	0.23	ng/L		10/21/22 12:10	10/29/22 13:01	1
6:2 FTS	<2.3		4.7	2.3	ng/L		10/21/22 12:10	10/29/22 13:01	1
8:2 FTS	<0.43		1.9	0.43	ng/L		10/21/22 12:10	10/29/22 13:01	1
10:2 FTS	<0.63		1.9	0.63	ng/L		10/21/22 12:10	10/29/22 13:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		10/21/22 12:10	10/29/22 13:01	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		10/21/22 12:10	10/29/22 13:01	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		10/21/22 12:10	10/29/22 13:01	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		10/21/22 12:10	10/29/22 13:01	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*99*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*
13C5 PFPeA	*90*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*
13C2 PFHxA	*82*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*
13C4 PFHpA	*91*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*
13C4 PFOA	*93*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*
13C5 PFNA	*110*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*
13C2 PFDA	*91*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*
13C2 PFUnA	*80*		*25 - 150*	*10/21/22 12:10*	*10/29/22 13:01*	*1*

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

Job ID: 500-224169-1

Client Sample ID: EP-Field Blank
Date Collected: 10/19/22 12:10
Date Received: 10/20/22 09:20

Lab Sample ID: 500-224169-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	81		25 - 150	10/21/22 12:10	10/29/22 13:01	1
13C2 PFTeDA	87		25 - 150	10/21/22 12:10	10/29/22 13:01	1
13C2 PFHxDA	96		25 - 150	10/21/22 12:10	10/29/22 13:01	1
13C3 PFBS	78		25 - 150	10/21/22 12:10	10/29/22 13:01	1
18O2 PFHxS	88		25 - 150	10/21/22 12:10	10/29/22 13:01	1
13C4 PFOS	98		25 - 150	10/21/22 12:10	10/29/22 13:01	1
13C8 FOSA	92		10 - 150	10/21/22 12:10	10/29/22 13:01	1
d3-NMeFOSAA	77		25 - 150	10/21/22 12:10	10/29/22 13:01	1
d5-NEtFOSAA	79		25 - 150	10/21/22 12:10	10/29/22 13:01	1
d-N-MeFOSA-M	76		10 - 150	10/21/22 12:10	10/29/22 13:01	1
d-N-EtFOSA-M	75		10 - 150	10/21/22 12:10	10/29/22 13:01	1
d7-N-MeFOSE-M	76		10 - 150	10/21/22 12:10	10/29/22 13:01	1
d9-N-EtFOSE-M	72		10 - 150	10/21/22 12:10	10/29/22 13:01	1
M2-4:2 FTS	93		25 - 150	10/21/22 12:10	10/29/22 13:01	1
M2-6:2 FTS	87		25 - 150	10/21/22 12:10	10/29/22 13:01	1
M2-8:2 FTS	74		25 - 150	10/21/22 12:10	10/29/22 13:01	1
13C3 HFPO-DA	81		25 - 150	10/21/22 12:10	10/29/22 13:01	1
13C2 10:2 FTS	72		25 - 150	10/21/22 12:10	10/29/22 13:01	1

Definitions/Glossary

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

Job ID: 500-224169-1

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: 500-224169-1

LCMS

Prep Batch: 626512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224169-1	Entry Point-Line 1	Total/NA	Water	3535	
500-224169-2	EP-Field Blank	Total/NA	Water	3535	
MB 320-626512/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-626512/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 628473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-224169-1	Entry Point-Line 1	Total/NA	Water	537 (modified)	626512
500-224169-2	EP-Field Blank	Total/NA	Water	537 (modified)	626512
MB 320-626512/1-A	Method Blank	Total/NA	Water	537 (modified)	626512
LCS 320-626512/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	626512

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-626512/1-A
Matrix: Water
Analysis Batch: 628473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626512

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.19		2.0	0.19	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		10/21/22 12:10	10/29/22 10:30	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		10/21/22 12:10	10/29/22 10:30	1
NEtFOSA	<0.87		2.0	0.87	ng/L		10/21/22 12:10	10/29/22 10:30	1
NMeFOSA	<0.43		2.0	0.43	ng/L		10/21/22 12:10	10/29/22 10:30	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		10/21/22 12:10	10/29/22 10:30	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		10/21/22 12:10	10/29/22 10:30	1
NMeFOSE	<1.4		4.0	1.4	ng/L		10/21/22 12:10	10/29/22 10:30	1
NEtFOSE	<0.85		2.0	0.85	ng/L		10/21/22 12:10	10/29/22 10:30	1
4:2 FTS	<0.24		2.0	0.24	ng/L		10/21/22 12:10	10/29/22 10:30	1
6:2 FTS	<2.5		5.0	2.5	ng/L		10/21/22 12:10	10/29/22 10:30	1
8:2 FTS	<0.46		2.0	0.46	ng/L		10/21/22 12:10	10/29/22 10:30	1
10:2 FTS	<0.67		2.0	0.67	ng/L		10/21/22 12:10	10/29/22 10:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		10/21/22 12:10	10/29/22 10:30	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		10/21/22 12:10	10/29/22 10:30	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		10/21/22 12:10	10/29/22 10:30	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		10/21/22 12:10	10/29/22 10:30	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*98*		*25 - 150*	*10/21/22 12:10*	*10/29/22 10:30*	*1*
13C5 PFPeA	*87*		*25 - 150*	*10/21/22 12:10*	*10/29/22 10:30*	*1*
13C2 PFHxA	*87*		*25 - 150*	*10/21/22 12:10*	*10/29/22 10:30*	*1*
13C4 PFHpA	*94*		*25 - 150*	*10/21/22 12:10*	*10/29/22 10:30*	*1*
13C4 PFOA	*93*		*25 - 150*	*10/21/22 12:10*	*10/29/22 10:30*	*1*
13C5 PFNA	*96*		*25 - 150*	*10/21/22 12:10*	*10/29/22 10:30*	*1*

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

Lab Sample ID: MB 320-626512/1-A
Matrix: Water
Analysis Batch: 628473

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626512

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	90		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C2 PFUnA	76		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C2 PFDoA	79		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C2 PFTeDA	87		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C2 PFHxDA	96		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C3 PFBS	83		25 - 150	10/21/22 12:10	10/29/22 10:30	1
18O2 PFHxS	94		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C4 PFOS	94		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C8 FOSA	88		10 - 150	10/21/22 12:10	10/29/22 10:30	1
d3-NMeFOSAA	76		25 - 150	10/21/22 12:10	10/29/22 10:30	1
d5-NEtFOSAA	72		25 - 150	10/21/22 12:10	10/29/22 10:30	1
d-N-MeFOSA-M	82		10 - 150	10/21/22 12:10	10/29/22 10:30	1
d-N-EtFOSA-M	75		10 - 150	10/21/22 12:10	10/29/22 10:30	1
d7-N-MeFOSE-M	77		10 - 150	10/21/22 12:10	10/29/22 10:30	1
d9-N-EtFOSE-M	70		10 - 150	10/21/22 12:10	10/29/22 10:30	1
M2-4:2 FTS	77		25 - 150	10/21/22 12:10	10/29/22 10:30	1
M2-6:2 FTS	81		25 - 150	10/21/22 12:10	10/29/22 10:30	1
M2-8:2 FTS	76		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C3 HFPO-DA	86		25 - 150	10/21/22 12:10	10/29/22 10:30	1
13C2 10:2 FTS	72		25 - 150	10/21/22 12:10	10/29/22 10:30	1

Lab Sample ID: LCS 320-626512/2-A
Matrix: Water
Analysis Batch: 628473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorobutanoic acid (PFBA)	40.0	39.6		ng/L		99	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	41.4		ng/L		104	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.3		ng/L		111	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	46.3		ng/L		116	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	39.9		ng/L		100	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.0		ng/L		105	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	40.7		ng/L		102	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.5		ng/L		104	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	42.8		ng/L		107	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	43.8		ng/L		110	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.4		ng/L		101	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	42.9		ng/L		107	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	34.8		ng/L		87	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.5	37.4		ng/L		105	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.6	45.8		ng/L		122	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.5	36.7		ng/L		101	60 - 135

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

Lab Sample ID: LCS 320-626512/2-A
Matrix: Water
Analysis Batch: 628473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoroheptanesulfonic acid (PFHpS)	38.2	41.1		ng/L		108	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.2	38.5		ng/L		104	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.5	38.7		ng/L		101	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	33.0		ng/L		85	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.8	37.5		ng/L		97	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	43.7		ng/L		109	60 - 135
NEtFOSA	40.0	40.9		ng/L		102	60 - 135
NMeFOSA	40.0	45.7		ng/L		114	60 - 135
NMeFOSAA	40.0	43.0		ng/L		108	60 - 135
NEtFOSAA	40.0	41.5		ng/L		104	60 - 135
NMeFOSE	40.0	39.9		ng/L		100	60 - 135
NEtFOSE	40.0	43.8		ng/L		110	60 - 135
4:2 FTS	37.5	39.0		ng/L		104	60 - 135
6:2 FTS	38.1	43.0		ng/L		113	60 - 135
8:2 FTS	38.4	42.6		ng/L		111	60 - 135
10:2 FTS	38.6	37.5		ng/L		97	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.8	38.9		ng/L		103	60 - 135
HFPO-DA (GenX)	40.0	36.1		ng/L		90	60 - 135
9Cl-PF3ONS	37.4	27.2		ng/L		73	60 - 135
11Cl-PF3OUdS	37.8	36.6		ng/L		97	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*104*		*25 - 150*
13C5 PFPeA	*97*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFHpA	*91*		*25 - 150*
13C4 PFOA	*102*		*25 - 150*
13C5 PFNA	*100*		*25 - 150*
13C2 PFDA	*101*		*25 - 150*
13C2 PFUnA	*81*		*25 - 150*
13C2 PFDoA	*81*		*25 - 150*
13C2 PFTeDA	*87*		*25 - 150*
13C2 PFHxDA	*97*		*25 - 150*
13C3 PFBS	*86*		*25 - 150*
18O2 PFHxS	*97*		*25 - 150*
13C4 PFOS	*102*		*25 - 150*
13C8 FOSA	*96*		*10 - 150*
d3-NMeFOSAA	*80*		*25 - 150*
d5-NEtFOSAA	*78*		*25 - 150*
d-N-MeFOSA-M	*90*		*10 - 150*
d-N-EtFOSA-M	*86*		*10 - 150*
d7-N-MeFOSE-M	*88*		*10 - 150*
d9-N-EtFOSE-M	*79*		*10 - 150*

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

Lab Sample ID: LCS 320-626512/2-A
Matrix: Water
Analysis Batch: 628473

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626512

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	81		25 - 150
M2-6:2 FTS	86		25 - 150
M2-8:2 FTS	77		25 - 150
13C3 HFPO-DA	94		25 - 150
13C2 10:2 FTS	85		25 - 150

Lab Chronicle

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

Job ID: 500-224169-1

Client Sample ID: Entry Point-Line 1

Lab Sample ID: 500-224169-1

Date Collected: 10/19/22 12:06

Matrix: Water

Date Received: 10/20/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			626512	SEY	EET SAC	10/21/22 12:10
Total/NA	Analysis	537 (modified)		1	628473	S1M	EET SAC	10/29/22 12:51

Client Sample ID: EP-Field Blank

Lab Sample ID: 500-224169-2

Date Collected: 10/19/22 12:10

Matrix: Water

Date Received: 10/20/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3535			626512	SEY	EET SAC	10/21/22 12:10
Total/NA	Analysis	537 (modified)		1	628473	S1M	EET SAC	10/29/22 13:01

Laboratory References:

EET 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: 500-224169-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-23

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

Chain of Custody Record

eurofins

Client Information	Sampler: Ty Fadness	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-100728-43336.2
Client Contact: Ty Fadness	Phone: 715 839-6141	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: City of Eau Claire	PWSID:	Analysis Requested		Job #: 500-224169
Address: 1000 Ferry Street	Due Date Requested: 10-21-22			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, Y Trizma, Z other (specify), Other:
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#:			

500-224169 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil/Waste, Tissue, 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	10/19/22	1206	6	Water			X		
2 EP- Field Blank	10/19/22	1210	6	Water			X		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

Possible Hazard Identification
☐ 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/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 10/19/22 1315	Company: City of EC	Received by:	Date/Time: 10-20-22 0920	Company: EETSac
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No: 183920
Cooler Temperature(s) °C and Other Remarks: 2.2c

Ver: 06/08/20_1

DNR Drinking Water Program
West Central Region Headquarters
1300 W. Clairemont Ave.
Eau Claire, WI 54701

PFOA/PFOS ANALYSIS

(ENCLOSE FORM WHEN SENDING SAMPLE TO LAB)

Rev: 02/18

Section I: To be completed by the Department of Natural Resources/SAMPLER

System Name: **EAU CLAIRE WATERWORKS** System Type: (Check one) MC X NN___ OC___ TN___

System Address: **1040 FOREST ST** City: **EAU CLAIRE** County: **18 - Eau Claire** Region Code: **6**

Pws Id#: **61802301** Entry Point ID: **400** WI Unique Well No: _____ DNR Contact: **COREY LARSON (715) 928-1624**

Sampler Phone/Name/Address **(Notify DNR Contact of Corrections)**

(715) 839-6121
TYLER FADNESS
1000 FERRY STREET
EAU CLAIRE WI 54701

Sampler: Provide information to have results faxed or e-mailed or to change a billing address, if your lab offers these services (leave blank if you don't use these services).

Fax number: _____

E-mail: _____

Billing address: _____

Sample Source:

___ W Well
X E Entry Point
___ D Distribution System

Sample Type:

X D Compliance Sample
___ C Confirmation Sample
___ I Investigation Sample
___ W Raw Water Sample

Special Instructions: _____

Collect sample between: 10 /01 /2022 and 12 /31 /2022

Section II: To be completed by SAMPLER -- ALL ITEMS REQUIRED

Sample Collection Date: 10 /19 /2022 (mm dd yyyy) Time: 12 : 06 ☐ a.m. ☒ p.m.

Address where sample was collected: 2711 Riverview Dr.

Monitoring Point ID: EP-400 Sample Point Description: 400N - North EP Tap

First Initial and Last Name of Sampler: T - FADNESS Sampler Phone: 715-839-6121

Section III: To be completed by LAB. Report test results on back for PWS and electronically to DNR within 10 days per NR 809.80

☐ **Check here if some or all of the parameters were analyzed by a subcontracted lab.**
NOTE: A separate form must be completed by each lab with data for only the parameters which that lab analyzed.

Laboratory ID Number: _____ Laboratory Name: _____

Date Sample Received: ___/___/_____ Time Sample Received: ___ ___ : ___ ___ Laboratory Sample ID: _____

Signature of Receiving Lab Official: _____ Date Reported to PWS: ___/___/_____

Condition of Sample Upon Receipt: _____

Notice: This form must be submitted with laboratory samples analyzed to determine compliance with ch. NR 809, Wis. Adm. Code, Safe Drinking Water. Completion of this form or a similar form approved by the Department is mandatory. Failure to submit a completed form to the Department is a violation punishable by a forfeiture of no less than $10 nor more than $5000, or by a fine of not less than $10 nor more than $100 or imprisonment of not less than 30 days, or both. Each day of continued violation is a separate offense (ss. 144.99, Wis. Stats.). Authorization for these requirement is under s. 280.13(d), Wis. Stats. and ch. NR 809.80. Personally identifiable information on this form will be used for no other purpose.

PFOA/PFOS ANALYSIS

System Name: EAU CLAIRE WATERWORKS

PWS ID: 61802301

This page to be completed by the laboratory performing analysis.

Lab Sample ID: _____

Storet Code		Parameter	SDWA Method	MDL	Results	MCL	Units
99597	X	PERFLUORO-N-OCTANOIC ACID				70	NG/L
99598	X	PERFLUORO-N-OCTANESULFONIC ACID				70	NG/L

Approved By: QA Officer: _____ Date: _____

Laboratory Manager: _____ Date: _____

Comments: _____

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: Ty Fadness	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-100728-43338.2
Client Contact: Ty Fadness	Phone: 715-839-6141	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: City of Eau Claire	PWSID:			Job #:
Address: 1000 Ferry Street	Due Date Requested: 10-21-22			
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#:			

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, Y - Trizma, 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	10/19/22	1206	6	Water			X		
EP- Field Blank	10/19/22	1210	6	Water			X		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

500-224169 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
	Relinquished by	10/19/22 1315	City of EC		10-20-22 0920	EETSac
	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.: 1831920 | Cooler Temperature(s) °C and Other Remarks: 2.2c

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 500-224169-1

Login Number: 224169
List Number: 2
Creator: Fisher, Jamyiah L

List Source: Eurofins Sacramento
List Creation: 10/20/22 07:41 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	1831920
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

Sacramento
Sample Receiving Notes

500-224169 Field Sheet

Job: _____

Tracking # : 5776 0597 9479

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: C06 Corr. Factor: (+ / -) N/A °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: 1831920

Cooler ID: —

Temp Observed: 2.2 °C Corrected: 2.2 °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: SO Date: 10-20-22

Unpacking/Labeling The Samples	Yes	No	NA
COC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Containers are not broken or leaking?	☑	☐	☐
Sample custody seal?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☑	☐
Is the Field Sampler's name on COC?	☑	☐	☐
Samples require splitting/compositing?	☐	☑	☐
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: AP Date: 10-20-22

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: AP Date: 10-20-22

WR3 03C

Isotope Dilution Summary

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

Job ID: 500-224169-1

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)
500-224169-1	Entry Point-Line 1	94	96	86	91	95	99	95	80
500-224169-2	EP-Field Blank	99	90	82	91	93	110	91	80
LCS 320-626512/2-A	Lab Control Sample	104	97	87	91	102	100	101	81
MB 320-626512/1-A	Method Blank	98	87	87	94	93	96	90	76

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
500-224169-1	Entry Point-Line 1	75	84	95	84	90	97	94	75
500-224169-2	EP-Field Blank	81	87	96	78	88	98	92	77
LCS 320-626512/2-A	Lab Control Sample	81	87	97	86	97	102	96	80
MB 320-626512/1-A	Method Blank	79	87	96	83	94	94	88	76

		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)
500-224169-1	Entry Point-Line 1	75	74	80	71	65	86	89	79
500-224169-2	EP-Field Blank	79	76	75	76	72	93	87	74
LCS 320-626512/2-A	Lab Control Sample	78	90	86	88	79	81	86	77
MB 320-626512/1-A	Method Blank	72	82	75	77	70	77	81	76

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)						
500-224169-1	Entry Point-Line 1	88	70						
500-224169-2	EP-Field Blank	81	72						
LCS 320-626512/2-A	Lab Control Sample	94	85						
MB 320-626512/1-A	Method Blank	86	72						

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
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
M242FTS = M2-4:2 FTS

Isotope Dilution Summary

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

Job ID: 500-224169-1

M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS