

ANALYTICAL REPORT

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Laboratory Job ID: 320-81923-1
Client Project/Site: PFAS Testing

For:

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

Attn: Ty Fadness



Authorized for release by:
12/6/2021 2:46:48 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

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

Job ID: 320-81923-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 320-81923-1

Job ID: 320-81923-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-81923-1

Comments

No additional comments.

Receipt

The samples were received on 11/18/2021 11:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

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 320-547465.

320-547465

Method: 3535 PFC-W

Method 3535: The following samples were preserved with trizma: Well 6 (320-81923-1), WW Outfall (320-81923-2), Well 14 (320-81923-3), Well 22 (320-81923-4) and Well 23 (320-81923-5). Thus, the MB, LCS and LCSD also contain trizma.

320-547465

Method: 3535 PFC-W

Method 3535: The following samples were light yellow prior to extraction: Well 6 (320-81923-1) and Well 14 (320-81923-3).

320-547465

Method: 3535 PFC-W

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: 320-81923-1

Client Sample ID: Well 6

Lab Sample ID: 320-81923-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanoic acid (PFPeA)	0.57	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.65	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.39	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.97	J	1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	11		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.2		1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: WW Outfall

Lab Sample ID: 320-81923-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	12		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	11		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.9		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.4		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	45		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.0	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	17		1.9	0.52	ng/L	1		537 (modified)	Total/NA
6:2 FTS	7.5		4.8	2.4	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 14

Lab Sample ID: 320-81923-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.4	J	4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.58	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.32	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.88	J	1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	0.50	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 22

Lab Sample ID: 320-81923-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.7		4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.5		1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.0		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.97	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.5		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.9	0.52	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Detection Summary

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

Job ID: 320-81923-1

Client Sample ID: Well 23

Lab Sample ID: 320-81923-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.8	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	10		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	8.8		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1		1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.5	J	1.9	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.9		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	4.2		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	19		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.8		1.9	0.51	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 6
Date Collected: 11/17/21 10:33
Date Received: 11/18/21 11:05

Lab Sample ID: 320-81923-1
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		12/02/21 04:53	12/04/21 03:38	1
Perfluoropentanoic acid (PFPeA)	0.57	J	1.9	0.47	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorohexanoic acid (PFHxA)	0.65	J	1.9	0.55	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluoroheptanoic acid (PFHpA)	0.39	J	1.9	0.24	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorooctanoic acid (PFOA)	0.97	J	1.9	0.81	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.85		1.9	0.85	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.89		1.9	0.89	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.9	0.19	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.9	0.29	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorohexanesulfonic acid (PFHxS)	11		1.9	0.54	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorooctanesulfonic acid (PFOS)	3.2		1.9	0.51	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		12/02/21 04:53	12/04/21 03:38	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		12/02/21 04:53	12/04/21 03:38	1
NEtFOSA	<0.83		1.9	0.83	ng/L		12/02/21 04:53	12/04/21 03:38	1
NMeFOSA	<0.41		1.9	0.41	ng/L		12/02/21 04:53	12/04/21 03:38	1
NMeFOSAA	<1.1		4.8	1.1	ng/L		12/02/21 04:53	12/04/21 03:38	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		12/02/21 04:53	12/04/21 03:38	1
NMeFOSE	<1.3		3.8	1.3	ng/L		12/02/21 04:53	12/04/21 03:38	1
NEtFOSE	<0.81		1.9	0.81	ng/L		12/02/21 04:53	12/04/21 03:38	1
4:2 FTS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 03:38	1
6:2 FTS	<2.4		4.8	2.4	ng/L		12/02/21 04:53	12/04/21 03:38	1
8:2 FTS	<0.44		1.9	0.44	ng/L		12/02/21 04:53	12/04/21 03:38	1
10:2 FTS	<0.64		1.9	0.64	ng/L		12/02/21 04:53	12/04/21 03:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		12/02/21 04:53	12/04/21 03:38	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		12/02/21 04:53	12/04/21 03:38	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 03:38	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 03:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	80		25 - 150				12/02/21 04:53	12/04/21 03:38	1
13C5 PFPeA	81		25 - 150				12/02/21 04:53	12/04/21 03:38	1
13C2 PFHxA	82		25 - 150				12/02/21 04:53	12/04/21 03:38	1
13C4 PFHpA	85		25 - 150				12/02/21 04:53	12/04/21 03:38	1
13C4 PFOA	87		25 - 150				12/02/21 04:53	12/04/21 03:38	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 6
Date Collected: 11/17/21 10:33
Date Received: 11/18/21 11:05

Lab Sample ID: 320-81923-1
Matrix: Water

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	87		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C2 PFDA	81		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C2 PFUnA	82		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C2 PFDoA	80		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C2 PFTeDA	73		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C2 PFHxDA	60		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C3 PFBS	91		25 - 150	12/02/21 04:53	12/04/21 03:38	1
18O2 PFHxS	75		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C4 PFOS	79		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C8 FOSA	75		10 - 150	12/02/21 04:53	12/04/21 03:38	1
d3-NMeFOSAA	73		25 - 150	12/02/21 04:53	12/04/21 03:38	1
d5-NEtFOSAA	71		25 - 150	12/02/21 04:53	12/04/21 03:38	1
d-N-MeFOSA-M	70		10 - 150	12/02/21 04:53	12/04/21 03:38	1
d-N-EtFOSA-M	70		10 - 150	12/02/21 04:53	12/04/21 03:38	1
d7-N-MeFOSE-M	64		10 - 150	12/02/21 04:53	12/04/21 03:38	1
d9-N-EtFOSE-M	66		10 - 150	12/02/21 04:53	12/04/21 03:38	1
M2-4:2 FTS	85		25 - 150	12/02/21 04:53	12/04/21 03:38	1
M2-6:2 FTS	78		25 - 150	12/02/21 04:53	12/04/21 03:38	1
M2-8:2 FTS	74		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C3 HFPO-DA	89		25 - 150	12/02/21 04:53	12/04/21 03:38	1
13C2 10:2 FTS	68		25 - 150	12/02/21 04:53	12/04/21 03:38	1

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: WW Outfall

Lab Sample ID: 320-81923-2

Date Collected: 11/17/21 10:38

Matrix: Water

Date Received: 11/18/21 11:05

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.5		4.8	2.3	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluoropentanoic acid (PFPeA)	12		1.9	0.47	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorohexanoic acid (PFHxA)	11		1.9	0.56	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluoroheptanoic acid (PFHpA)	2.4		1.9	0.24	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorooctanoic acid (PFOA)	3.9		1.9	0.82	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		1.9	1.3	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorotetradecanoic acid (PFTeA)	<0.71		1.9	0.71	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.86		1.9	0.86	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.91		1.9	0.91	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorobutanesulfonic acid (PFBS)	5.3		1.9	0.19	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluoropentanesulfonic acid (PFPeS)	5.4		1.9	0.29	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorohexanesulfonic acid (PFHxS)	45		1.9	0.55	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.0 J		1.9	0.18	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorooctanesulfonic acid (PFOS)	17		1.9	0.52	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorododecanesulfonic acid (PFDoS)	<0.94		1.9	0.94	ng/L		12/02/21 04:53	12/04/21 03:48	1
Perfluorooctanesulfonamide (FOSA)	<0.95		1.9	0.95	ng/L		12/02/21 04:53	12/04/21 03:48	1
NEtFOSA	<0.84		1.9	0.84	ng/L		12/02/21 04:53	12/04/21 03:48	1
NMeFOSA	<0.42		1.9	0.42	ng/L		12/02/21 04:53	12/04/21 03:48	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		12/02/21 04:53	12/04/21 03:48	1
NEtFOSAA	<1.3		4.8	1.3	ng/L		12/02/21 04:53	12/04/21 03:48	1
NMeFOSE	<1.4		3.9	1.4	ng/L		12/02/21 04:53	12/04/21 03:48	1
NEtFOSE	<0.82		1.9	0.82	ng/L		12/02/21 04:53	12/04/21 03:48	1
4:2 FTS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 03:48	1
6:2 FTS	7.5		4.8	2.4	ng/L		12/02/21 04:53	12/04/21 03:48	1
8:2 FTS	<0.44		1.9	0.44	ng/L		12/02/21 04:53	12/04/21 03:48	1
10:2 FTS	<0.65		1.9	0.65	ng/L		12/02/21 04:53	12/04/21 03:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.39		1.9	0.39	ng/L		12/02/21 04:53	12/04/21 03:48	1
HFPO-DA (GenX)	<1.5		3.9	1.5	ng/L		12/02/21 04:53	12/04/21 03:48	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 03:48	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		12/02/21 04:53	12/04/21 03:48	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	89		25 - 150				12/02/21 04:53	12/04/21 03:48	1
13C5 PFPeA	90		25 - 150				12/02/21 04:53	12/04/21 03:48	1
13C2 PFHxA	87		25 - 150				12/02/21 04:53	12/04/21 03:48	1
13C4 PFHpA	94		25 - 150				12/02/21 04:53	12/04/21 03:48	1
13C4 PFOA	100		25 - 150				12/02/21 04:53	12/04/21 03:48	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: WW Outfall

Lab Sample ID: 320-81923-2

Date Collected: 11/17/21 10:38

Matrix: Water

Date Received: 11/18/21 11:05

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C5 PFNA	99		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C2 PFDA	94		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C2 PFUnA	90		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C2 PFDoA	94		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C2 PFTeDA	93		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C2 PFHxDA	81		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C3 PFBS	104		25 - 150	12/02/21 04:53	12/04/21 03:48	1
18O2 PFHxS	85		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C4 PFOS	94		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C8 FOSA	89		10 - 150	12/02/21 04:53	12/04/21 03:48	1
d3-NMeFOSAA	83		25 - 150	12/02/21 04:53	12/04/21 03:48	1
d5-NEtFOSAA	84		25 - 150	12/02/21 04:53	12/04/21 03:48	1
d-N-MeFOSA-M	78		10 - 150	12/02/21 04:53	12/04/21 03:48	1
d-N-EtFOSA-M	79		10 - 150	12/02/21 04:53	12/04/21 03:48	1
d7-N-MeFOSE-M	76		10 - 150	12/02/21 04:53	12/04/21 03:48	1
d9-N-EtFOSE-M	78		10 - 150	12/02/21 04:53	12/04/21 03:48	1
M2-4:2 FTS	79		25 - 150	12/02/21 04:53	12/04/21 03:48	1
M2-6:2 FTS	84		25 - 150	12/02/21 04:53	12/04/21 03:48	1
M2-8:2 FTS	84		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C3 HFPO-DA	95		25 - 150	12/02/21 04:53	12/04/21 03:48	1
13C2 10:2 FTS	80		25 - 150	12/02/21 04:53	12/04/21 03:48	1

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 14

Lab Sample ID: 320-81923-3

Date Collected: 11/17/21 11:00

Matrix: Water

Date Received: 11/18/21 11:05

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.4	J	4.7	2.2	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluoropentanoic acid (PFPeA)	0.58	J	1.9	0.46	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorohexanoic acid (PFHxA)	<0.54		1.9	0.54	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluoroheptanoic acid (PFHpA)	0.32	J	1.9	0.23	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorooctanoic acid (PFOA)	0.88	J	1.9	0.80	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.9	0.19	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluoropentanesulfonic acid (PFPeS)	0.50	J	1.9	0.28	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.9	0.53	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorooctanesulfonic acid (PFOS)	1.6	J	1.9	0.51	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		12/02/21 04:53	12/04/21 03:58	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		12/02/21 04:53	12/04/21 03:58	1
NEtFOSA	<0.81		1.9	0.81	ng/L		12/02/21 04:53	12/04/21 03:58	1
NMeFOSA	<0.40		1.9	0.40	ng/L		12/02/21 04:53	12/04/21 03:58	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		12/02/21 04:53	12/04/21 03:58	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		12/02/21 04:53	12/04/21 03:58	1
NMeFOSE	<1.3		3.7	1.3	ng/L		12/02/21 04:53	12/04/21 03:58	1
NEtFOSE	<0.80		1.9	0.80	ng/L		12/02/21 04:53	12/04/21 03:58	1
4:2 FTS	<0.22		1.9	0.22	ng/L		12/02/21 04:53	12/04/21 03:58	1
6:2 FTS	<2.3		4.7	2.3	ng/L		12/02/21 04:53	12/04/21 03:58	1
8:2 FTS	<0.43		1.9	0.43	ng/L		12/02/21 04:53	12/04/21 03:58	1
10:2 FTS	<0.63		1.9	0.63	ng/L		12/02/21 04:53	12/04/21 03:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		12/02/21 04:53	12/04/21 03:58	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		12/02/21 04:53	12/04/21 03:58	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		12/02/21 04:53	12/04/21 03:58	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 03:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	76		25 - 150				12/02/21 04:53	12/04/21 03:58	1
13C5 PFPeA	80		25 - 150				12/02/21 04:53	12/04/21 03:58	1
13C2 PFHxA	85		25 - 150				12/02/21 04:53	12/04/21 03:58	1
13C4 PFHpA	84		25 - 150				12/02/21 04:53	12/04/21 03:58	1
13C4 PFOA	93		25 - 150				12/02/21 04:53	12/04/21 03:58	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 14

Lab Sample ID: 320-81923-3

Date Collected: 11/17/21 11:00

Matrix: Water

Date Received: 11/18/21 11:05

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	94		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C2 PFDA	85		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C2 PFUnA	89		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C2 PFDoA	85		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C2 PFTeDA	82		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C2 PFHxDA	76		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C3 PFBS	96		25 - 150	12/02/21 04:53	12/04/21 03:58	1
18O2 PFHxS	77		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C4 PFOS	86		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C8 FOSA	77		10 - 150	12/02/21 04:53	12/04/21 03:58	1
d3-NMeFOSAA	72		25 - 150	12/02/21 04:53	12/04/21 03:58	1
d5-NEtFOSAA	75		25 - 150	12/02/21 04:53	12/04/21 03:58	1
d-N-MeFOSA-M	69		10 - 150	12/02/21 04:53	12/04/21 03:58	1
d-N-EtFOSA-M	71		10 - 150	12/02/21 04:53	12/04/21 03:58	1
d7-N-MeFOSE-M	66		10 - 150	12/02/21 04:53	12/04/21 03:58	1
d9-N-EtFOSE-M	69		10 - 150	12/02/21 04:53	12/04/21 03:58	1
M2-4:2 FTS	77		25 - 150	12/02/21 04:53	12/04/21 03:58	1
M2-6:2 FTS	76		25 - 150	12/02/21 04:53	12/04/21 03:58	1
M2-8:2 FTS	71		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C3 HFPO-DA	85		25 - 150	12/02/21 04:53	12/04/21 03:58	1
13C2 10:2 FTS	68		25 - 150	12/02/21 04:53	12/04/21 03:58	1

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 22

Lab Sample ID: 320-81923-4

Date Collected: 11/17/21 11:06

Matrix: Water

Date Received: 11/18/21 11:05

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.7		4.8	2.3	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluoropentanoic acid (PFPeA)	3.5		1.9	0.47	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorohexanoic acid (PFHxA)	3.0		1.9	0.56	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluoroheptanoic acid (PFHpA)	0.97	J	1.9	0.24	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorooctanoic acid (PFOA)	2.1		1.9	0.82	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		1.9	1.3	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.86		1.9	0.86	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.90		1.9	0.90	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorobutanesulfonic acid (PFBS)	3.3		1.9	0.19	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.9	0.29	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorohexanesulfonic acid (PFHxS)	8.5		1.9	0.55	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.9	0.52	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorononanesulfonic acid (PFNS)	<0.36		1.9	0.36	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		12/02/21 04:53	12/04/21 04:08	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		12/02/21 04:53	12/04/21 04:08	1
NEtFOSA	<0.84		1.9	0.84	ng/L		12/02/21 04:53	12/04/21 04:08	1
NMeFOSA	<0.41		1.9	0.41	ng/L		12/02/21 04:53	12/04/21 04:08	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		12/02/21 04:53	12/04/21 04:08	1
NEtFOSAA	<1.3		4.8	1.3	ng/L		12/02/21 04:53	12/04/21 04:08	1
NMeFOSE	<1.3		3.8	1.3	ng/L		12/02/21 04:53	12/04/21 04:08	1
NEtFOSE	<0.82		1.9	0.82	ng/L		12/02/21 04:53	12/04/21 04:08	1
4:2 FTS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 04:08	1
6:2 FTS	<2.4		4.8	2.4	ng/L		12/02/21 04:53	12/04/21 04:08	1
8:2 FTS	<0.44		1.9	0.44	ng/L		12/02/21 04:53	12/04/21 04:08	1
10:2 FTS	<0.64		1.9	0.64	ng/L		12/02/21 04:53	12/04/21 04:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		12/02/21 04:53	12/04/21 04:08	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		12/02/21 04:53	12/04/21 04:08	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 04:08	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		12/02/21 04:53	12/04/21 04:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	85		25 - 150				12/02/21 04:53	12/04/21 04:08	1
13C5 PFPeA	87		25 - 150				12/02/21 04:53	12/04/21 04:08	1
13C2 PFHxA	84		25 - 150				12/02/21 04:53	12/04/21 04:08	1
13C4 PFHpA	85		25 - 150				12/02/21 04:53	12/04/21 04:08	1
13C4 PFOA	92		25 - 150				12/02/21 04:53	12/04/21 04:08	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 22

Lab Sample ID: 320-81923-4

Date Collected: 11/17/21 11:06

Matrix: Water

Date Received: 11/18/21 11:05

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	94		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C2 PFDA	86		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C2 PFUnA	88		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C2 PFDoA	88		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C2 PFTeDA	85		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C2 PFHxDA	79		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C3 PFBS	93		25 - 150	12/02/21 04:53	12/04/21 04:08	1
18O2 PFHxS	78		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C4 PFOS	84		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C8 FOSA	82		10 - 150	12/02/21 04:53	12/04/21 04:08	1
d3-NMeFOSAA	75		25 - 150	12/02/21 04:53	12/04/21 04:08	1
d5-NEtFOSAA	78		25 - 150	12/02/21 04:53	12/04/21 04:08	1
d-N-MeFOSA-M	75		10 - 150	12/02/21 04:53	12/04/21 04:08	1
d-N-EtFOSA-M	76		10 - 150	12/02/21 04:53	12/04/21 04:08	1
d7-N-MeFOSE-M	70		10 - 150	12/02/21 04:53	12/04/21 04:08	1
d9-N-EtFOSE-M	75		10 - 150	12/02/21 04:53	12/04/21 04:08	1
M2-4:2 FTS	79		25 - 150	12/02/21 04:53	12/04/21 04:08	1
M2-6:2 FTS	75		25 - 150	12/02/21 04:53	12/04/21 04:08	1
M2-8:2 FTS	76		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C3 HFPO-DA	88		25 - 150	12/02/21 04:53	12/04/21 04:08	1
13C2 10:2 FTS	68		25 - 150	12/02/21 04:53	12/04/21 04:08	1

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 23

Lab Sample ID: 320-81923-5

Date Collected: 11/17/21 11:10

Matrix: Water

Date Received: 11/18/21 11:05

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.8	J	4.7	2.3	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluoropentanoic acid (PFPeA)	10		1.9	0.46	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorohexanoic acid (PFHxA)	8.8		1.9	0.55	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluoroheptanoic acid (PFHpA)	2.1		1.9	0.24	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorooctanoic acid (PFOA)	1.5	J	1.9	0.80	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorotetradecanoic acid (PFTeA)	<0.69		1.9	0.69	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.84		1.9	0.84	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.89		1.9	0.89	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorobutanesulfonic acid (PFBS)	2.9		1.9	0.19	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluoropentanesulfonic acid (PFPeS)	4.2		1.9	0.28	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorohexanesulfonic acid (PFHxS)	19		1.9	0.54	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.9	0.18	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorooctanesulfonic acid (PFOS)	4.8		1.9	0.51	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorododecanesulfonic acid (PFDoS)	<0.92		1.9	0.92	ng/L		12/02/21 04:53	12/04/21 04:18	1
Perfluorooctanesulfonamide (FOSA)	<0.93		1.9	0.93	ng/L		12/02/21 04:53	12/04/21 04:18	1
NEtFOSA	<0.82		1.9	0.82	ng/L		12/02/21 04:53	12/04/21 04:18	1
NMeFOSA	<0.41		1.9	0.41	ng/L		12/02/21 04:53	12/04/21 04:18	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		12/02/21 04:53	12/04/21 04:18	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		12/02/21 04:53	12/04/21 04:18	1
NMeFOSE	<1.3		3.8	1.3	ng/L		12/02/21 04:53	12/04/21 04:18	1
NEtFOSE	<0.80		1.9	0.80	ng/L		12/02/21 04:53	12/04/21 04:18	1
4:2 FTS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 04:18	1
6:2 FTS	<2.4		4.7	2.4	ng/L		12/02/21 04:53	12/04/21 04:18	1
8:2 FTS	<0.44		1.9	0.44	ng/L		12/02/21 04:53	12/04/21 04:18	1
10:2 FTS	<0.63		1.9	0.63	ng/L		12/02/21 04:53	12/04/21 04:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		12/02/21 04:53	12/04/21 04:18	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		12/02/21 04:53	12/04/21 04:18	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		12/02/21 04:53	12/04/21 04:18	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		12/02/21 04:53	12/04/21 04:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97		25 - 150				12/02/21 04:53	12/04/21 04:18	1
13C5 PFPeA	91		25 - 150				12/02/21 04:53	12/04/21 04:18	1
13C2 PFHxA	95		25 - 150				12/02/21 04:53	12/04/21 04:18	1
13C4 PFHpA	100		25 - 150				12/02/21 04:53	12/04/21 04:18	1
13C4 PFOA	101		25 - 150				12/02/21 04:53	12/04/21 04:18	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-81923-1

Client Sample ID: Well 23

Lab Sample ID: 320-81923-5

Date Collected: 11/17/21 11:10

Matrix: Water

Date Received: 11/18/21 11:05

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C5 PFNA	105		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C2 PFDA	95		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C2 PFUnA	101		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C2 PFDoA	101		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C2 PFTeDA	94		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C2 PFHxDA	86		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C3 PFBS	109		25 - 150	12/02/21 04:53	12/04/21 04:18	1
18O2 PFHxS	91		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C4 PFOS	98		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C8 FOSA	90		10 - 150	12/02/21 04:53	12/04/21 04:18	1
d3-NMeFOSAA	89		25 - 150	12/02/21 04:53	12/04/21 04:18	1
d5-NEtFOSAA	91		25 - 150	12/02/21 04:53	12/04/21 04:18	1
d-N-MeFOSA-M	80		10 - 150	12/02/21 04:53	12/04/21 04:18	1
d-N-EtFOSA-M	86		10 - 150	12/02/21 04:53	12/04/21 04:18	1
d7-N-MeFOSE-M	76		10 - 150	12/02/21 04:53	12/04/21 04:18	1
d9-N-EtFOSE-M	82		10 - 150	12/02/21 04:53	12/04/21 04:18	1
M2-4:2 FTS	84		25 - 150	12/02/21 04:53	12/04/21 04:18	1
M2-6:2 FTS	87		25 - 150	12/02/21 04:53	12/04/21 04:18	1
M2-8:2 FTS	91		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C3 HFPO-DA	94		25 - 150	12/02/21 04:53	12/04/21 04:18	1
13C2 10:2 FTS	81		25 - 150	12/02/21 04:53	12/04/21 04:18	1

Isotope Dilution Summary

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

Job ID: 320-81923-1

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)
320-81923-1	Well 6	80	81	82	85	87	87	81	82
320-81923-2	WW Outfall	89	90	87	94	100	99	94	90
320-81923-3	Well 14	76	80	85	84	93	94	85	89
320-81923-4	Well 22	85	87	84	85	92	94	86	88
320-81923-5	Well 23	97	91	95	100	101	105	95	101
LCS 320-547465/2-A	Lab Control Sample	84	80	82	79	90	92	82	84
LCSD 320-547465/3-A	Lab Control Sample Dup	96	91	87	93	100	101	95	94
MB 320-547465/1-A	Method Blank	95	96	89	98	102	103	97	98

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
320-81923-1	Well 6	80	73	60	91	75	79	75	73
320-81923-2	WW Outfall	94	93	81	104	85	94	89	83
320-81923-3	Well 14	85	82	76	96	77	86	77	72
320-81923-4	Well 22	88	85	79	93	78	84	82	75
320-81923-5	Well 23	101	94	86	109	91	98	90	89
LCS 320-547465/2-A	Lab Control Sample	83	88	78	91	78	84	80	75
LCSD 320-547465/3-A	Lab Control Sample Dup	94	96	82	102	88	91	92	89
MB 320-547465/1-A	Method Blank	95	94	88	104	87	92	87	86

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)
320-81923-1	Well 6	71	70	70	64	66	85	78	74
320-81923-2	WW Outfall	84	78	79	76	78	79	84	84
320-81923-3	Well 14	75	69	71	66	69	77	76	71
320-81923-4	Well 22	78	75	76	70	75	79	75	76
320-81923-5	Well 23	91	80	86	76	82	84	87	91
LCS 320-547465/2-A	Lab Control Sample	76	73	72	68	71	73	74	78
LCSD 320-547465/3-A	Lab Control Sample Dup	86	82	84	77	80	80	88	90
MB 320-547465/1-A	Method Blank	90	83	85	77	79	86	87	91

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
320-81923-1	Well 6	89	68
320-81923-2	WW Outfall	95	80
320-81923-3	Well 14	85	68
320-81923-4	Well 22	88	68
320-81923-5	Well 23	94	81
LCS 320-547465/2-A	Lab Control Sample	91	74
LCSD 320-547465/3-A	Lab Control Sample Dup	94	79
MB 320-547465/1-A	Method Blank	97	80

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA

Isotope Dilution Summary

Job ID: 320-81923-1

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

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

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QC Sample Results

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

Job ID: 320-81923-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-547465/1-A
Matrix: Water
Analysis Batch: 548022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 547465

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		12/02/21 04:53	12/04/21 03:07	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		12/02/21 04:53	12/04/21 03:07	1
NEtFOSA	<0.87		2.0	0.87	ng/L		12/02/21 04:53	12/04/21 03:07	1
NMeFOSA	<0.43		2.0	0.43	ng/L		12/02/21 04:53	12/04/21 03:07	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		12/02/21 04:53	12/04/21 03:07	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		12/02/21 04:53	12/04/21 03:07	1
NMeFOSE	<1.4		4.0	1.4	ng/L		12/02/21 04:53	12/04/21 03:07	1
NEtFOSE	<0.85		2.0	0.85	ng/L		12/02/21 04:53	12/04/21 03:07	1
4:2 FTS	<0.24		2.0	0.24	ng/L		12/02/21 04:53	12/04/21 03:07	1
6:2 FTS	<2.5		5.0	2.5	ng/L		12/02/21 04:53	12/04/21 03:07	1
8:2 FTS	<0.46		2.0	0.46	ng/L		12/02/21 04:53	12/04/21 03:07	1
10:2 FTS	<0.67		2.0	0.67	ng/L		12/02/21 04:53	12/04/21 03:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		12/02/21 04:53	12/04/21 03:07	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		12/02/21 04:53	12/04/21 03:07	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		12/02/21 04:53	12/04/21 03:07	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		12/02/21 04:53	12/04/21 03:07	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	95		25 - 150	12/02/21 04:53	12/04/21 03:07	1			
13C5 PFPeA	96		25 - 150	12/02/21 04:53	12/04/21 03:07	1			
13C2 PFHxA	89		25 - 150	12/02/21 04:53	12/04/21 03:07	1			
13C4 PFHpA	98		25 - 150	12/02/21 04:53	12/04/21 03:07	1			
13C4 PFOA	102		25 - 150	12/02/21 04:53	12/04/21 03:07	1			
13C5 PFNA	103		25 - 150	12/02/21 04:53	12/04/21 03:07	1			

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-81923-1

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

Lab Sample ID: MB 320-547465/1-A
Matrix: Water
Analysis Batch: 548022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 547465

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	97		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C2 PFUnA	98		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C2 PFDoA	95		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C2 PFTeDA	94		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C2 PFHxDA	88		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C3 PFBS	104		25 - 150	12/02/21 04:53	12/04/21 03:07	1
18O2 PFHxS	87		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C4 PFOS	92		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C8 FOSA	87		10 - 150	12/02/21 04:53	12/04/21 03:07	1
d3-NMeFOSAA	86		25 - 150	12/02/21 04:53	12/04/21 03:07	1
d5-NEtFOSAA	90		25 - 150	12/02/21 04:53	12/04/21 03:07	1
d-N-MeFOSA-M	83		10 - 150	12/02/21 04:53	12/04/21 03:07	1
d-N-EtFOSA-M	85		10 - 150	12/02/21 04:53	12/04/21 03:07	1
d7-N-MeFOSE-M	77		10 - 150	12/02/21 04:53	12/04/21 03:07	1
d9-N-EtFOSE-M	79		10 - 150	12/02/21 04:53	12/04/21 03:07	1
M2-4:2 FTS	86		25 - 150	12/02/21 04:53	12/04/21 03:07	1
M2-6:2 FTS	87		25 - 150	12/02/21 04:53	12/04/21 03:07	1
M2-8:2 FTS	91		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C3 HFPO-DA	97		25 - 150	12/02/21 04:53	12/04/21 03:07	1
13C2 10:2 FTS	80		25 - 150	12/02/21 04:53	12/04/21 03:07	1

Lab Sample ID: LCS 320-547465/2-A
Matrix: Water
Analysis Batch: 548022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 547465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	40.1		ng/L		100	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	40.8		ng/L		102	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.0		ng/L		100	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	38.9		ng/L		97	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	38.2		ng/L		96	60 - 135
Perfluorononanoic acid (PFNA)	40.0	36.5		ng/L		91	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	37.0		ng/L		92	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	39.6		ng/L		99	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.3		ng/L		103	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	40.6		ng/L		102	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.7		ng/L		92	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	38.9		ng/L		97	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	30.2		ng/L		75	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	29.6		ng/L		84	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	32.0		ng/L		85	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.5		ng/L		92	60 - 135

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-81923-1

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

Lab Sample ID: LCS 320-547465/2-A
Matrix: Water
Analysis Batch: 548022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 547465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.0		ng/L		89	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	33.7		ng/L		91	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	36.0		ng/L		94	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	34.5		ng/L		90	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	32.9		ng/L		85	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	39.0		ng/L		97	60 - 135
NEtFOSA	40.0	41.4		ng/L		104	60 - 135
NMeFOSA	40.0	40.0		ng/L		100	60 - 135
NMeFOSAA	40.0	37.6		ng/L		94	60 - 135
NEtFOSAA	40.0	38.5		ng/L		96	60 - 135
NMeFOSE	40.0	38.5		ng/L		96	60 - 135
NEtFOSE	40.0	38.4		ng/L		96	60 - 135
4:2 FTS	37.4	37.5		ng/L		100	60 - 135
6:2 FTS	37.9	35.6		ng/L		94	60 - 135
8:2 FTS	38.3	38.0		ng/L		99	60 - 135
10:2 FTS	38.6	36.9		ng/L		96	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	39.9		ng/L		106	60 - 135
HFPO-DA (GenX)	40.0	38.3		ng/L		96	60 - 135
9Cl-PF3ONS	37.3	32.8		ng/L		88	60 - 135
11Cl-PF3OUdS	37.7	34.1		ng/L		90	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	84		25 - 150
13C5 PFPeA	80		25 - 150
13C2 PFHxA	82		25 - 150
13C4 PFHpA	79		25 - 150
13C4 PFOA	90		25 - 150
13C5 PFNA	92		25 - 150
13C2 PFDA	82		25 - 150
13C2 PFUnA	84		25 - 150
13C2 PFDoA	83		25 - 150
13C2 PFTeDA	88		25 - 150
13C2 PFHxDA	78		25 - 150
13C3 PFBS	91		25 - 150
18O2 PFHxS	78		25 - 150
13C4 PFOS	84		25 - 150
13C8 FOSA	80		10 - 150
d3-NMeFOSAA	75		25 - 150
d5-NEtFOSAA	76		25 - 150
d-N-MeFOSA-M	73		10 - 150
d-N-EtFOSA-M	72		10 - 150
d7-N-MeFOSE-M	68		10 - 150
d9-N-EtFOSE-M	71		10 - 150

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-81923-1

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

Lab Sample ID: LCS 320-547465/2-A
Matrix: Water
Analysis Batch: 548022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 547465

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-4:2 FTS	73		25 - 150
M2-6:2 FTS	74		25 - 150
M2-8:2 FTS	78		25 - 150
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	74		25 - 150

Lab Sample ID: LCSD 320-547465/3-A
Matrix: Water
Analysis Batch: 548022

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 547465

<i>Analyte</i>	<i>Spike</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>RPD</i>	<i>Limit</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>			
Perfluorobutanoic acid (PFBA)	40.0	37.9		ng/L		95	60 - 135	6		30
Perfluoropentanoic acid (PFPeA)	40.0	38.5		ng/L		96	60 - 135	6		30
Perfluorohexanoic acid (PFHxA)	40.0	40.3		ng/L		101	60 - 135	1		30
Perfluoroheptanoic acid (PFHpA)	40.0	39.2		ng/L		98	60 - 135	1		30
Perfluorooctanoic acid (PFOA)	40.0	37.4		ng/L		93	60 - 135	2		30
Perfluorononanoic acid (PFNA)	40.0	37.3		ng/L		93	60 - 135	2		30
Perfluorodecanoic acid (PFDA)	40.0	36.4		ng/L		91	60 - 135	2		30
Perfluoroundecanoic acid (PFUnA)	40.0	39.5		ng/L		99	60 - 135	0		30
Perfluorododecanoic acid (PFDoA)	40.0	40.9		ng/L		102	60 - 135	1		30
Perfluorotridecanoic acid (PFTrDA)	40.0	39.2		ng/L		98	60 - 135	4		30
Perfluorotetradecanoic acid (PFTeA)	40.0	37.9		ng/L		95	60 - 135	3		30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	39.8		ng/L		100	60 - 135	2		30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	26.7		ng/L		67	60 - 135	12		30
Perfluorobutanesulfonic acid (PFBS)	35.4	29.8		ng/L		84	60 - 135	1		30
Perfluoropentanesulfonic acid (PFPeS)	37.5	33.7		ng/L		90	60 - 135	5		30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.0		ng/L		91	60 - 135	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.4		ng/L		96	60 - 135	7		30
Perfluorooctanesulfonic acid (PFOS)	37.1	36.2		ng/L		98	60 - 135	7		30
Perfluorononanesulfonic acid (PFNS)	38.4	36.8		ng/L		96	60 - 135	2		30
Perfluorodecanesulfonic acid (PFDS)	38.6	38.3		ng/L		99	60 - 135	10		30
Perfluorododecanesulfonic acid (PFDoS)	38.7	35.0		ng/L		91	60 - 135	6		30
Perfluorooctanesulfonamide (FOSA)	40.0	38.5		ng/L		96	60 - 135	1		30
NEtFOSA	40.0	40.5		ng/L		101	60 - 135	2		30
NMeFOSA	40.0	39.7		ng/L		99	60 - 135	1		30
NMeFOSAA	40.0	37.2		ng/L		93	60 - 135	1		30
NEtFOSAA	40.0	40.2		ng/L		101	60 - 135	4		30
NMeFOSE	40.0	39.4		ng/L		99	60 - 135	3		30

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-81923-1

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

Lab Sample ID: LCSD 320-547465/3-A
Matrix: Water
Analysis Batch: 548022

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 547465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NETFOSE	40.0	37.9		ng/L		95	60 - 135	1	30
4:2 FTS	37.4	34.0		ng/L		91	60 - 135	10	30
6:2 FTS	37.9	32.9		ng/L		87	60 - 135	8	30
8:2 FTS	38.3	37.2		ng/L		97	60 - 135	2	30
10:2 FTS	38.6	38.9		ng/L		101	60 - 135	5	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	39.4		ng/L		105	60 - 135	1	30
HFPO-DA (GenX)	40.0	40.7		ng/L		102	60 - 135	6	30
9CI-PF3ONS	37.3	34.3		ng/L		92	60 - 135	4	30
11CI-PF3OUdS	37.7	35.3		ng/L		94	60 - 135	3	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	96		25 - 150
13C5 PFPeA	91		25 - 150
13C2 PFHxA	87		25 - 150
13C4 PFHpA	93		25 - 150
13C4 PFOA	100		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	95		25 - 150
13C2 PFUnA	94		25 - 150
13C2 PFDoA	94		25 - 150
13C2 PFTeDA	96		25 - 150
13C2 PFHxDA	82		25 - 150
13C3 PFBS	102		25 - 150
18O2 PFHxS	88		25 - 150
13C4 PFOS	91		25 - 150
13C8 FOSA	92		10 - 150
d3-NMeFOSAA	89		25 - 150
d5-NEtFOSAA	86		25 - 150
d-N-MeFOSA-M	82		10 - 150
d-N-EtFOSA-M	84		10 - 150
d7-N-MeFOSE-M	77		10 - 150
d9-N-EtFOSE-M	80		10 - 150
M2-4:2 FTS	80		25 - 150
M2-6:2 FTS	88		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	94		25 - 150
13C2 10:2 FTS	79		25 - 150

QC Association Summary

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

Job ID: 320-81923-1

LCMS

Prep Batch: 547465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-81923-1	Well 6	Total/NA	Water	3535	
320-81923-2	WW Outfall	Total/NA	Water	3535	
320-81923-3	Well 14	Total/NA	Water	3535	
320-81923-4	Well 22	Total/NA	Water	3535	
320-81923-5	Well 23	Total/NA	Water	3535	
MB 320-547465/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-547465/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-547465/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 548022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-81923-1	Well 6	Total/NA	Water	537 (modified)	547465
320-81923-2	WW Outfall	Total/NA	Water	537 (modified)	547465
320-81923-3	Well 14	Total/NA	Water	537 (modified)	547465
320-81923-4	Well 22	Total/NA	Water	537 (modified)	547465
320-81923-5	Well 23	Total/NA	Water	537 (modified)	547465
MB 320-547465/1-A	Method Blank	Total/NA	Water	537 (modified)	547465
LCS 320-547465/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	547465
LCSD 320-547465/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	547465

Lab Chronicle

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

Job ID: 320-81923-1

Client Sample ID: Well 6
Date Collected: 11/17/21 10:33
Date Received: 11/18/21 11:05

Lab Sample ID: 320-81923-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			262.9 mL	10.0 mL	547465	12/02/21 04:53	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			548022	12/04/21 03:38	RS1	TAL SAC

Client Sample ID: WW Outfall
Date Collected: 11/17/21 10:38
Date Received: 11/18/21 11:05

Lab Sample ID: 320-81923-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			258.5 mL	10.0 mL	547465	12/02/21 04:53	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			548022	12/04/21 03:48	RS1	TAL SAC

Client Sample ID: Well 14
Date Collected: 11/17/21 11:00
Date Received: 11/18/21 11:05

Lab Sample ID: 320-81923-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			267.2 mL	10.0 mL	547465	12/02/21 04:53	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			548022	12/04/21 03:58	RS1	TAL SAC

Client Sample ID: Well 22
Date Collected: 11/17/21 11:06
Date Received: 11/18/21 11:05

Lab Sample ID: 320-81923-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			259.8 mL	10.0 mL	547465	12/02/21 04:53	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			548022	12/04/21 04:08	RS1	TAL SAC

Client Sample ID: Well 23
Date Collected: 11/17/21 11:10
Date Received: 11/18/21 11:05

Lab Sample ID: 320-81923-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			264.2 mL	10.0 mL	547465	12/02/21 04:53	EG	TAL SAC
Total/NA	Analysis	537 (modified)		1			548022	12/04/21 04:18	RS1	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, 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: 320-81923-1

Laboratory: Eurofins TestAmerica, Sacramento

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

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

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Method Summary

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

Job ID: 320-81923-1

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 TestAmerica, 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: 320-81923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-81923-1	Well 6	Water	11/17/21 10:33	11/18/21 11:05
320-81923-2	WW Outfall	Water	11/17/21 10:38	11/18/21 11:05
320-81923-3	Well 14	Water	11/17/21 11:00	11/18/21 11:05
320-81923-4	Well 22	Water	11/17/21 11:06	11/18/21 11:05
320-81923-5	Well 23	Water	11/17/21 11:10	11/18/21 11:05

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Chain of Custody Record

Client Information Client Contact: Ty Fadhess Company: Ty Fadhess City of Eau Claire Address: 203 S Farwell City: Eau Claire State, Zip: WI, 54701 Phone: 50210879-00 Email: Tyler.Fadhess@EauClaireWi.Gov Project Name: PFAS Testing Site:		Lab P#M: Fredrick, Sandie E-Mail: sandra.fredrick@eurofins.com Carrier Tracking No(s): State of Origin: ICC No: 320-44984-10561.1 Page: Page 1 of 1 Job #:	
Due Date Requested: 11/19/21 or After TAT Requested (days): Standard Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No PO #: 50210879-00 WO #: 32012617 Project #: 32012617 SSOW#:		Analysis Requested PFC_IDA_WI - PFAS, Standard List (36 Analytes) <input checked="" type="checkbox"/> Matrix (Water, Seawater, Other) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Form MS/MSD (Year or No) <input checked="" type="checkbox"/> Total Number of Containers:	
Sample Identification Well 6 Well 14 Well 22 Well 23		Sample Date: 11/17/21 Sample Time: 1033 Sample Type: G Matrix: Water Preservation Code:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:		Method of Shipment: Date/Time: 11/17/21 1445 Date/Time: 11-18-21 1105 Date/Time:	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: 1601335		Cooler Temperature(s) °C and Other Remarks: 1.4°C	



Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 320-81923-1

Login Number: 81923

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Oropeza, Salvador

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1601375
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	
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

