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ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-76874-1
Client Project/Site: PFAS Testing

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

Attn: Ty Fadness

Sandra Fredrick

Authorized for release by:
7/30/2021 11:41:38 AM

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Definitions/Glossary

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

Job ID: 320-76874-1

Qualifiers

LCMS

Qualifier	Qualifier Description
C	See Case Narrative
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

Case Narrative

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

Job ID: 320-76874-1

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Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-76874-1

Comments
No additional comments.

Receipt
The samples were received on 7/29/2021 9:45 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 0.8º C.

Receipt Exceptions
On the COC there is no check mark for the analysis. Riverview Boat Launch-Chip-Riv. (320-76874-10)

LCMS
Method 537 (modified): The transition mass ratio for the indicated analyte was outside of the established ratio limit. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte. Well 16 (320-76874-1) and Well 24 (320-76874-8)

Method 537 (modified): The transition mass ratio for the indicated analytes were outside of the established ratio limits. The qualitative identification of the analytes have some degree of uncertainty, and the reported values may have some high bias. However, analyst judgment was used to positively identify the analytes: Riverview Boat Launch-Chip-Riv. (320-76874-10).

Method 537 (modified): The transition mass ratio for the indicated analyte was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte: (CCVL 320-511452/2).

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

Organic Prep
Method 3535: The following samples were preserved with trizma: Well 16 (320-76874-1), Entry Point Line 2 (320-76874-2), Entry Point Line 2 FB (320-76874-3), Well 22 (320-76874-4), Well 14 (320-76874-5), Well 11 (320-76874-6), Well 17 (320-76874-7), Well 24 (320-76874-8) and Well 9 (320-76874-9). Thus, the MB, LCS and LCSD also contain trizma. 3535_PFC Aqueous preparation batch 320-511302

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-511302. 3535_PFC Aqueous

Method 3535: The following sample was yellow prior to extraction: Riverview Boat Launch-Chip-Riv. (320-76874-10). 3535_PFC Aqueous preparation batch 320-511404

Method 3535: The following sample was preserved with trizma: Riverview Boat Launch-Chip-Riv. (320-76874-10). Thus, the MB, LCS and LCSD also contain trizma. 3535_PFC Aqueous preparation batch 320-511404

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-511404. 3535_PFC Aqueous

Method 3535: The following sample was yellow after extraction/final volume: Riverview Boat Launch-Chip-Riv. (320-76874-10). 3535_PFC Aqueous preparation batch 320-511404

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: 320-76874-1

Client Sample ID: Well 16 — Lab Sample ID: 320-76874-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.3		4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.96	J	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.90	J C	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.8		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.9		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	19		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.36	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.8		1.8	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Entry Point Line 2 — Lab Sample ID: 320-76874-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.1	J	4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.6	J	1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.62	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.1	J	1.8	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.8		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.7	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	6.2		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.5	J	1.8	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Entry Point Line 2 FB — Lab Sample ID: 320-76874-3

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid (PFDA)	0.28	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 22 — Lab Sample ID: 320-76874-4

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.2		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.4		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.2		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.7	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.5		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.8		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.5		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.35	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.1		1.9	0.50	ng/L	1		537 (modified)	Total/NA
6:2 FTS	5.9		4.7	2.3	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 14 — Lab Sample ID: 320-76874-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	0.59	J	1.7	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.64	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample ID: Well 14 (Continued) — Lab Sample ID: 320-76874-5

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluoropentanesulfonic acid (PFPeS)	0.31	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.86	J	1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 11 — Lab Sample ID: 320-76874-6

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.2	J	4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.1		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.9		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.5		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.0		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	7.9		1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	110		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	2.1		1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	56		1.8	0.50	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 17 — Lab Sample ID: 320-76874-7

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.9	J	4.8	2.3	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.96	J	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)	0.63	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.7		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.1		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	3.7		1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	33		1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.63	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.9	0.52	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 24 — Lab Sample ID: 320-76874-8

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.1		4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.6		1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.81	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.0		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.1		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	12		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.31	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.2	C	1.9	0.50	ng/L	1		537 (modified)	Total/NA
NEtFOSE	0.79	J	1.9	0.79	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 320-76874-1

Client Sample ID: Well 9 — Lab Sample ID: 320-76874-9

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.9	J	4.7	2.3	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.54	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.54	J	1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.95	J	1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.89	J	1.9	0.51	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Riverview Boat Launch-Chip-Riv. — Lab Sample ID: 320-76874-10

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.5	J	4.3	2.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.91	J	1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.79	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.1	J	1.7	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.35	J C	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.90	J C	1.7	0.47	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 320-76874-1

Client Sample ID: Well 16

Date Collected: 07/28/21 08:44
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.3**		4.5	2.2	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluoropentanoic acid (PFPeA)	**0.96**	**J**	1.8	0.44	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorohexanoic acid (PFHxA)	**0.90**	**J C**	1.8	0.52	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorooctanoic acid (PFOA)	**1.8**		1.8	0.77	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.85		1.8	0.85	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorobutanesulfonic acid (PFBS)	**2.7**		1.8	0.18	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluoropentanesulfonic acid (PFPeS)	**2.9**		1.8	0.27	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorohexanesulfonic acid (PFHxS)	**19**		1.8	0.52	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.36**	**J**	1.8	0.17	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorooctanesulfonic acid (PFOS)	**4.8**		1.8	0.49	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		07/29/21 11:32	07/29/21 16:58	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		07/29/21 11:32	07/29/21 16:58	1
NEtFOSA	<0.79		1.8	0.79	ng/L		07/29/21 11:32	07/29/21 16:58	1
NMeFOSA	<0.39		1.8	0.39	ng/L		07/29/21 11:32	07/29/21 16:58	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		07/29/21 11:32	07/29/21 16:58	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		07/29/21 11:32	07/29/21 16:58	1
NMeFOSE	<1.3		3.6	1.3	ng/L		07/29/21 11:32	07/29/21 16:58	1
NEtFOSE	<0.77		1.8	0.77	ng/L		07/29/21 11:32	07/29/21 16:58	1
4:2 FTS	<0.22		1.8	0.22	ng/L		07/29/21 11:32	07/29/21 16:58	1
6:2 FTS	<2.3		4.5	2.3	ng/L		07/29/21 11:32	07/29/21 16:58	1
8:2 FTS	<0.42		1.8	0.42	ng/L		07/29/21 11:32	07/29/21 16:58	1
10:2 FTS	<0.61		1.8	0.61	ng/L		07/29/21 11:32	07/29/21 16:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		07/29/21 11:32	07/29/21 16:58	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		07/29/21 11:32	07/29/21 16:58	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		07/29/21 11:32	07/29/21 16:58	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		07/29/21 11:32	07/29/21 16:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*71*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:58*	*1*
13C5 PFPeA	*55*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:58*	*1*
13C2 PFHxA	*91*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:58*	*1*
13C4 PFHpA	*77*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:58*	*1*
13C4 PFOA	*85*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:58*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Well 16
Date Collected: 07/28/21 08:44
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	80		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C2 PFDA	94		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C2 PFUnA	91		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C2 PFDoA	92		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C2 PFTeDA	98		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C2 PFHxDA	118		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C3 PFBS	92		25 - 150	07/29/21 11:32	07/29/21 16:58	1
18O2 PFHxS	84		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C4 PFOS	93		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C8 FOSA	91		10 - 150	07/29/21 11:32	07/29/21 16:58	1
d3-NMeFOSAA	91		25 - 150	07/29/21 11:32	07/29/21 16:58	1
d5-NEtFOSAA	81		25 - 150	07/29/21 11:32	07/29/21 16:58	1
d-N-MeFOSA-M	82		10 - 150	07/29/21 11:32	07/29/21 16:58	1
d-N-EtFOSA-M	88		10 - 150	07/29/21 11:32	07/29/21 16:58	1
d7-N-MeFOSE-M	69		10 - 150	07/29/21 11:32	07/29/21 16:58	1
d9-N-EtFOSE-M	75		10 - 150	07/29/21 11:32	07/29/21 16:58	1
M2-4:2 FTS	88		25 - 150	07/29/21 11:32	07/29/21 16:58	1
M2-6:2 FTS	86		25 - 150	07/29/21 11:32	07/29/21 16:58	1
M2-8:2 FTS	91		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C3 HFPO-DA	76		25 - 150	07/29/21 11:32	07/29/21 16:58	1
13C2 10:2 FTS	94		25 - 150	07/29/21 11:32	07/29/21 16:58	1

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

Job ID: 320-76874-1

Client Sample ID: Entry Point Line 2

Date Collected: 07/28/21 08:56
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.1**	**J**	4.5	2.2	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluoropentanoic acid (PFPeA)	**1.2**	**J**	1.8	0.44	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorohexanoic acid (PFHxA)	**1.6**	**J**	1.8	0.52	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluoroheptanoic acid (PFHpA)	**0.62**	**J**	1.8	0.22	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorooctanoic acid (PFOA)	**1.1**	**J**	1.8	0.76	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluoroundecanoic acid (PFUnA)	<0.99		1.8	0.99	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorobutanesulfonic acid (PFBS)	**2.8**		1.8	0.18	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluoropentanesulfonic acid (PFPeS)	**1.7**	**J**	1.8	0.27	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorohexanesulfonic acid (PFHxS)	**6.2**		1.8	0.51	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorooctanesulfonic acid (PFOS)	**1.5**	**J**	1.8	0.48	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		07/29/21 11:32	07/29/21 17:07	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		07/29/21 11:32	07/29/21 17:07	1
NEtFOSA	<0.78		1.8	0.78	ng/L		07/29/21 11:32	07/29/21 17:07	1
NMeFOSA	<0.39		1.8	0.39	ng/L		07/29/21 11:32	07/29/21 17:07	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		07/29/21 11:32	07/29/21 17:07	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		07/29/21 11:32	07/29/21 17:07	1
NMeFOSE	<1.3		3.6	1.3	ng/L		07/29/21 11:32	07/29/21 17:07	1
NEtFOSE	<0.76		1.8	0.76	ng/L		07/29/21 11:32	07/29/21 17:07	1
4:2 FTS	<0.22		1.8	0.22	ng/L		07/29/21 11:32	07/29/21 17:07	1
6:2 FTS	<2.2		4.5	2.2	ng/L		07/29/21 11:32	07/29/21 17:07	1
8:2 FTS	<0.41		1.8	0.41	ng/L		07/29/21 11:32	07/29/21 17:07	1
10:2 FTS	<0.60		1.8	0.60	ng/L		07/29/21 11:32	07/29/21 17:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		07/29/21 11:32	07/29/21 17:07	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		07/29/21 11:32	07/29/21 17:07	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		07/29/21 11:32	07/29/21 17:07	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		07/29/21 11:32	07/29/21 17:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*67*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:07*	*1*
13C5 PFPeA	*43*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:07*	*1*
13C2 PFHxA	*79*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:07*	*1*
13C4 PFHpA	*62*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:07*	*1*
13C4 PFOA	*78*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:07*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Entry Point Line 2
Date Collected: 07/28/21 08:56
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	72		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C2 PFDA	92		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C2 PFUnA	90		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C2 PFDoA	85		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C2 PFTeDA	91		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C2 PFHxDA	119		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C3 PFBS	76		25 - 150	07/29/21 11:32	07/29/21 17:07	1
18O2 PFHxS	71		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C4 PFOS	88		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C8 FOSA	78		10 - 150	07/29/21 11:32	07/29/21 17:07	1
d3-NMeFOSAA	79		25 - 150	07/29/21 11:32	07/29/21 17:07	1
d5-NEtFOSAA	79		25 - 150	07/29/21 11:32	07/29/21 17:07	1
d-N-MeFOSA-M	75		10 - 150	07/29/21 11:32	07/29/21 17:07	1
d-N-EtFOSA-M	77		10 - 150	07/29/21 11:32	07/29/21 17:07	1
d7-N-MeFOSE-M	69		10 - 150	07/29/21 11:32	07/29/21 17:07	1
d9-N-EtFOSE-M	70		10 - 150	07/29/21 11:32	07/29/21 17:07	1
M2-4:2 FTS	81		25 - 150	07/29/21 11:32	07/29/21 17:07	1
M2-6:2 FTS	76		25 - 150	07/29/21 11:32	07/29/21 17:07	1
M2-8:2 FTS	96		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C3 HFPO-DA	81		25 - 150	07/29/21 11:32	07/29/21 17:07	1
13C2 10:2 FTS	90		25 - 150	07/29/21 11:32	07/29/21 17:07	1

Client Sample ID: Entry Point Line 2 FB

Date Collected: 07/28/21 08:58
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-3
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.8	0.43	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.8	0.51	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorooctanoic acid (PFOA)	<0.75		1.8	0.75	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorodecanoic acid (PFDA)	**0.28**	**J**	1.8	0.27	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.8	0.96	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.8	0.48	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.8	1.1	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.8	0.64	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.8	0.78	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.82		1.8	0.82	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.8	0.26	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.8	0.50	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.8	0.47	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.8	0.32	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.8	0.28	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.8	0.85	ng/L		07/29/21 11:32	07/29/21 17:17	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.8	0.86	ng/L		07/29/21 11:32	07/29/21 17:17	1
NEtFOSA	<0.76		1.8	0.76	ng/L		07/29/21 11:32	07/29/21 17:17	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/29/21 11:32	07/29/21 17:17	1
NMeFOSAA	<1.1		4.4	1.1	ng/L		07/29/21 11:32	07/29/21 17:17	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/29/21 11:32	07/29/21 17:17	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/29/21 11:32	07/29/21 17:17	1
NEtFOSE	<0.75		1.8	0.75	ng/L		07/29/21 11:32	07/29/21 17:17	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/29/21 11:32	07/29/21 17:17	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/29/21 11:32	07/29/21 17:17	1
8:2 FTS	<0.40		1.8	0.40	ng/L		07/29/21 11:32	07/29/21 17:17	1
10:2 FTS	<0.59		1.8	0.59	ng/L		07/29/21 11:32	07/29/21 17:17	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.8	0.35	ng/L		07/29/21 11:32	07/29/21 17:17	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/29/21 11:32	07/29/21 17:17	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/29/21 11:32	07/29/21 17:17	1
11Cl-PF3OUdS	<0.28		1.8	0.28	ng/L		07/29/21 11:32	07/29/21 17:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*103*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*
13C5 PFPeA	*89*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*
13C2 PFHxA	*108*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*
13C4 PFHpA	*104*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*
13C4 PFOA	*104*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*
13C5 PFNA	*101*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*
13C2 PFDA	*108*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*
13C2 PFUnA	*101*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:17*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Entry Point Line 2 FB
Date Collected: 07/28/21 08:58
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-3
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	108		25 - 150	07/29/21 11:32	07/29/21 17:17	1
13C2 PFTeDA	105		25 - 150	07/29/21 11:32	07/29/21 17:17	1
13C2 PFHxDA	123		25 - 150	07/29/21 11:32	07/29/21 17:17	1
13C3 PFBS	120		25 - 150	07/29/21 11:32	07/29/21 17:17	1
18O2 PFHxS	102		25 - 150	07/29/21 11:32	07/29/21 17:17	1
13C4 PFOS	104		25 - 150	07/29/21 11:32	07/29/21 17:17	1
13C8 FOSA	103		10 - 150	07/29/21 11:32	07/29/21 17:17	1
d3-NMeFOSAA	95		25 - 150	07/29/21 11:32	07/29/21 17:17	1
d5-NEtFOSAA	94		25 - 150	07/29/21 11:32	07/29/21 17:17	1
d-N-MeFOSA-M	93		10 - 150	07/29/21 11:32	07/29/21 17:17	1
d-N-EtFOSA-M	92		10 - 150	07/29/21 11:32	07/29/21 17:17	1
d7-N-MeFOSE-M	85		10 - 150	07/29/21 11:32	07/29/21 17:17	1
d9-N-EtFOSE-M	87		10 - 150	07/29/21 11:32	07/29/21 17:17	1
M2-4:2 FTS	87		25 - 150	07/29/21 11:32	07/29/21 17:17	1
M2-6:2 FTS	91		25 - 150	07/29/21 11:32	07/29/21 17:17	1
M2-8:2 FTS	92		25 - 150	07/29/21 11:32	07/29/21 17:17	1
13C3 HFPO-DA	105		25 - 150	07/29/21 11:32	07/29/21 17:17	1
13C2 10:2 FTS	101		25 - 150	07/29/21 11:32	07/29/21 17:17	1

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

Job ID: 320-76874-1

Client Sample ID: Well 22
Date Collected: 07/28/21 09:12
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.2**		4.7	2.2	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluoropentanoic acid (PFPeA)	**6.4**		1.9	0.46	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorohexanoic acid (PFHxA)	**6.2**		1.9	0.54	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluoroheptanoic acid (PFHpA)	**1.7**	**J**	1.9	0.23	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorooctanoic acid (PFOA)	**3.5**		1.9	0.79	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorobutanesulfonic acid (PFBS)	**5.8**		1.9	0.19	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluoropentanesulfonic acid (PFPeS)	**3.5**		1.9	0.28	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorohexanesulfonic acid (PFHxS)	**21**		1.9	0.53	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.35**	**J**	1.9	0.18	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorooctanesulfonic acid (PFOS)	**5.1**		1.9	0.50	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.9	0.34	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorododecanesulfonic acid (PFDoS)	<0.90		1.9	0.90	ng/L		07/29/21 11:32	07/29/21 17:26	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		07/29/21 11:32	07/29/21 17:26	1
NEtFOSA	<0.81		1.9	0.81	ng/L		07/29/21 11:32	07/29/21 17:26	1
NMeFOSA	<0.40		1.9	0.40	ng/L		07/29/21 11:32	07/29/21 17:26	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		07/29/21 11:32	07/29/21 17:26	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		07/29/21 11:32	07/29/21 17:26	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/29/21 11:32	07/29/21 17:26	1
NEtFOSE	<0.79		1.9	0.79	ng/L		07/29/21 11:32	07/29/21 17:26	1
4:2 FTS	<0.22		1.9	0.22	ng/L		07/29/21 11:32	07/29/21 17:26	1
6:2 FTS	**5.9**		4.7	2.3	ng/L		07/29/21 11:32	07/29/21 17:26	1
8:2 FTS	<0.43		1.9	0.43	ng/L		07/29/21 11:32	07/29/21 17:26	1
10:2 FTS	<0.62		1.9	0.62	ng/L		07/29/21 11:32	07/29/21 17:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		07/29/21 11:32	07/29/21 17:26	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/29/21 11:32	07/29/21 17:26	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		07/29/21 11:32	07/29/21 17:26	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		07/29/21 11:32	07/29/21 17:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*80*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:26*	*1*
13C5 PFPeA	*63*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:26*	*1*
13C2 PFHxA	*88*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:26*	*1*
13C4 PFHpA	*81*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:26*	*1*
13C4 PFOA	*82*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:26*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Well 22
Date Collected: 07/28/21 09:12
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-4
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	79		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C2 PFDA	92		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C2 PFUnA	88		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C2 PFDoA	89		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C2 PFTeDA	94		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C2 PFHxDA	109		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C3 PFBS	87		25 - 150	07/29/21 11:32	07/29/21 17:26	1
18O2 PFHxS	81		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C4 PFOS	87		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C8 FOSA	83		10 - 150	07/29/21 11:32	07/29/21 17:26	1
d3-NMeFOSAA	78		25 - 150	07/29/21 11:32	07/29/21 17:26	1
d5-NEtFOSAA	83		25 - 150	07/29/21 11:32	07/29/21 17:26	1
d-N-MeFOSA-M	79		10 - 150	07/29/21 11:32	07/29/21 17:26	1
d-N-EtFOSA-M	79		10 - 150	07/29/21 11:32	07/29/21 17:26	1
d7-N-MeFOSE-M	72		10 - 150	07/29/21 11:32	07/29/21 17:26	1
d9-N-EtFOSE-M	77		10 - 150	07/29/21 11:32	07/29/21 17:26	1
M2-4:2 FTS	72		25 - 150	07/29/21 11:32	07/29/21 17:26	1
M2-6:2 FTS	81		25 - 150	07/29/21 11:32	07/29/21 17:26	1
M2-8:2 FTS	87		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C3 HFPO-DA	86		25 - 150	07/29/21 11:32	07/29/21 17:26	1
13C2 10:2 FTS	90		25 - 150	07/29/21 11:32	07/29/21 17:26	1

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

Job ID: 320-76874-1

Client Sample ID: Well 14

Date Collected: 07/28/21 09:20
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-5

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.4	2.1	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.7	0.43	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorohexanoic acid (PFHxA)	**0.59**	**J**	1.7	0.51	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorononanoic acid (PFNA)	<0.24		1.7	0.24	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.7	0.64	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.7	0.78	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.82		1.7	0.82	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorobutanesulfonic acid (PFBS)	**0.64**	**J**	1.7	0.17	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluoropentanesulfonic acid (PFPeS)	**0.31**	**J**	1.7	0.26	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorohexanesulfonic acid (PFHxS)	**1.5**	**J**	1.7	0.50	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.7	0.17	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorooctanesulfonic acid (PFOS)	**0.86**	**J**	1.7	0.47	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.7	0.85	ng/L		07/29/21 11:32	07/29/21 17:36	1
Perfluorooctanesulfonamide (FOSA)	<0.86		1.7	0.86	ng/L		07/29/21 11:32	07/29/21 17:36	1
NEtFOSA	<0.76		1.7	0.76	ng/L		07/29/21 11:32	07/29/21 17:36	1
NMeFOSA	<0.38		1.7	0.38	ng/L		07/29/21 11:32	07/29/21 17:36	1
NMeFOSAA	<1.0		4.4	1.0	ng/L		07/29/21 11:32	07/29/21 17:36	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/29/21 11:32	07/29/21 17:36	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/29/21 11:32	07/29/21 17:36	1
NEtFOSE	<0.74		1.7	0.74	ng/L		07/29/21 11:32	07/29/21 17:36	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/29/21 11:32	07/29/21 17:36	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/29/21 11:32	07/29/21 17:36	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/29/21 11:32	07/29/21 17:36	1
10:2 FTS	<0.58		1.7	0.58	ng/L		07/29/21 11:32	07/29/21 17:36	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		07/29/21 11:32	07/29/21 17:36	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/29/21 11:32	07/29/21 17:36	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/29/21 11:32	07/29/21 17:36	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/29/21 11:32	07/29/21 17:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*75*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:36*	*1*
13C5 PFPeA	*47*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:36*	*1*
13C2 PFHxA	*95*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:36*	*1*
13C4 PFHpA	*70*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:36*	*1*
13C4 PFOA	*88*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:36*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Well 14
Date Collected: 07/28/21 09:20
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-5
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	80		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C2 PFDA	116		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C2 PFUnA	105		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C2 PFDoA	100		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C2 PFTeDA	116		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C2 PFHxDA	149		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C3 PFBS	90		25 - 150	07/29/21 11:32	07/29/21 17:36	1
18O2 PFHxS	91		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C4 PFOS	104		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C8 FOSA	99		10 - 150	07/29/21 11:32	07/29/21 17:36	1
d3-NMeFOSAA	83		25 - 150	07/29/21 11:32	07/29/21 17:36	1
d5-NEtFOSAA	86		25 - 150	07/29/21 11:32	07/29/21 17:36	1
d-N-MeFOSA-M	92		10 - 150	07/29/21 11:32	07/29/21 17:36	1
d-N-EtFOSA-M	97		10 - 150	07/29/21 11:32	07/29/21 17:36	1
d7-N-MeFOSE-M	81		10 - 150	07/29/21 11:32	07/29/21 17:36	1
d9-N-EtFOSE-M	86		10 - 150	07/29/21 11:32	07/29/21 17:36	1
M2-4:2 FTS	93		25 - 150	07/29/21 11:32	07/29/21 17:36	1
M2-6:2 FTS	90		25 - 150	07/29/21 11:32	07/29/21 17:36	1
M2-8:2 FTS	121		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C3 HFPO-DA	84		25 - 150	07/29/21 11:32	07/29/21 17:36	1
13C2 10:2 FTS	111		25 - 150	07/29/21 11:32	07/29/21 17:36	1

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

Job ID: 320-76874-1

Client Sample ID: Well 11

Date Collected: 07/28/21 09:25
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-6

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**4.2**	**J**	4.6	2.2	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluoropentanoic acid (PFPeA)	**3.1**		1.8	0.45	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorohexanoic acid (PFHxA)	**3.9**		1.8	0.53	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluoroheptanoic acid (PFHpA)	**1.8**		1.8	0.23	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorooctanoic acid (PFOA)	**7.5**		1.8	0.78	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorodecanoic acid (PFDA)	<0.29		1.8	0.29	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.8	0.51	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorotetradecanoic acid (PFTeA)	<0.67		1.8	0.67	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.82		1.8	0.82	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorobutanesulfonic acid (PFBS)	**5.0**		1.8	0.18	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluoropentanesulfonic acid (PFPeS)	**7.9**		1.8	0.28	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorohexanesulfonic acid (PFHxS)	**110**		1.8	0.52	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	**2.1**		1.8	0.17	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorooctanesulfonic acid (PFOS)	**56**		1.8	0.50	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorododecanesulfonic acid (PFDoS)	<0.89		1.8	0.89	ng/L		07/29/21 11:32	07/29/21 17:45	1
Perfluorooctanesulfonamide (FOSA)	<0.90		1.8	0.90	ng/L		07/29/21 11:32	07/29/21 17:45	1
NEtFOSA	<0.80		1.8	0.80	ng/L		07/29/21 11:32	07/29/21 17:45	1
NMeFOSA	<0.40		1.8	0.40	ng/L		07/29/21 11:32	07/29/21 17:45	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		07/29/21 11:32	07/29/21 17:45	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		07/29/21 11:32	07/29/21 17:45	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/29/21 11:32	07/29/21 17:45	1
NEtFOSE	<0.78		1.8	0.78	ng/L		07/29/21 11:32	07/29/21 17:45	1
4:2 FTS	<0.22		1.8	0.22	ng/L		07/29/21 11:32	07/29/21 17:45	1
6:2 FTS	<2.3		4.6	2.3	ng/L		07/29/21 11:32	07/29/21 17:45	1
8:2 FTS	<0.42		1.8	0.42	ng/L		07/29/21 11:32	07/29/21 17:45	1
10:2 FTS	<0.62		1.8	0.62	ng/L		07/29/21 11:32	07/29/21 17:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.8	0.37	ng/L		07/29/21 11:32	07/29/21 17:45	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/29/21 11:32	07/29/21 17:45	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		07/29/21 11:32	07/29/21 17:45	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		07/29/21 11:32	07/29/21 17:45	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:45*	*1*
13C5 PFPeA	*68*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:45*	*1*
13C2 PFHxA	*100*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:45*	*1*
13C4 PFHpA	*81*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:45*	*1*
13C4 PFOA	*91*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:45*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Well 11
Date Collected: 07/28/21 09:25
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-6
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	88		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C2 PFDA	102		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C2 PFUnA	98		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C2 PFDoA	97		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C2 PFTeDA	102		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C2 PFHxDA	125		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C3 PFBS	99		25 - 150	07/29/21 11:32	07/29/21 17:45	1
18O2 PFHxS	91		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C4 PFOS	100		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C8 FOSA	92		10 - 150	07/29/21 11:32	07/29/21 17:45	1
d3-NMeFOSAA	86		25 - 150	07/29/21 11:32	07/29/21 17:45	1
d5-NEtFOSAA	88		25 - 150	07/29/21 11:32	07/29/21 17:45	1
d-N-MeFOSA-M	88		10 - 150	07/29/21 11:32	07/29/21 17:45	1
d-N-EtFOSA-M	95		10 - 150	07/29/21 11:32	07/29/21 17:45	1
d7-N-MeFOSE-M	78		10 - 150	07/29/21 11:32	07/29/21 17:45	1
d9-N-EtFOSE-M	79		10 - 150	07/29/21 11:32	07/29/21 17:45	1
M2-4:2 FTS	73		25 - 150	07/29/21 11:32	07/29/21 17:45	1
M2-6:2 FTS	91		25 - 150	07/29/21 11:32	07/29/21 17:45	1
M2-8:2 FTS	101		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C3 HFPO-DA	92		25 - 150	07/29/21 11:32	07/29/21 17:45	1
13C2 10:2 FTS	104		25 - 150	07/29/21 11:32	07/29/21 17:45	1

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

Job ID: 320-76874-1

Client Sample ID: Well 17
Date Collected: 07/28/21 09:30
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-7
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**3.9**	**J**	4.8	2.3	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluoropentanoic acid (PFPeA)	**0.96**	**J**	1.9	0.47	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorohexanoic acid (PFHxA)	**3.0**		1.9	0.56	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluoroheptanoic acid (PFHpA)	**0.63**	**J**	1.9	0.24	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorooctanoic acid (PFOA)	**3.7**		1.9	0.82	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorononanoic acid (PFNA)	<0.26		1.9	0.26	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorodecanoic acid (PFDA)	<0.30		1.9	0.30	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluoroundecanoic acid (PFUnA)	<1.1		1.9	1.1	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorododecanoic acid (PFDoA)	<0.53		1.9	0.53	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorotetradecanoic acid (PFTeA)	<0.70		1.9	0.70	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.85		1.9	0.85	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.90		1.9	0.90	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorobutanesulfonic acid (PFBS)	**4.1**		1.9	0.19	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluoropentanesulfonic acid (PFPeS)	**3.7**		1.9	0.29	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorohexanesulfonic acid (PFHxS)	**33**		1.9	0.55	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.63**	**J**	1.9	0.18	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorooctanesulfonic acid (PFOS)	**16**		1.9	0.52	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorodecanesulfonic acid (PFDS)	<0.31		1.9	0.31	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorododecanesulfonic acid (PFDoS)	<0.93		1.9	0.93	ng/L		07/29/21 11:32	07/29/21 17:54	1
Perfluorooctanesulfonamide (FOSA)	<0.94		1.9	0.94	ng/L		07/29/21 11:32	07/29/21 17:54	1
NEtFOSA	<0.83		1.9	0.83	ng/L		07/29/21 11:32	07/29/21 17:54	1
NMeFOSA	<0.41		1.9	0.41	ng/L		07/29/21 11:32	07/29/21 17:54	1
NMeFOSAA	<1.2		4.8	1.2	ng/L		07/29/21 11:32	07/29/21 17:54	1
NEtFOSAA	<1.2		4.8	1.2	ng/L		07/29/21 11:32	07/29/21 17:54	1
NMeFOSE	<1.3		3.8	1.3	ng/L		07/29/21 11:32	07/29/21 17:54	1
NEtFOSE	<0.82		1.9	0.82	ng/L		07/29/21 11:32	07/29/21 17:54	1
4:2 FTS	<0.23		1.9	0.23	ng/L		07/29/21 11:32	07/29/21 17:54	1
6:2 FTS	<2.4		4.8	2.4	ng/L		07/29/21 11:32	07/29/21 17:54	1
8:2 FTS	<0.44		1.9	0.44	ng/L		07/29/21 11:32	07/29/21 17:54	1
10:2 FTS	<0.64		1.9	0.64	ng/L		07/29/21 11:32	07/29/21 17:54	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		07/29/21 11:32	07/29/21 17:54	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		07/29/21 11:32	07/29/21 17:54	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		07/29/21 11:32	07/29/21 17:54	1
11Cl-PF3OUdS	<0.31		1.9	0.31	ng/L		07/29/21 11:32	07/29/21 17:54	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*87*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:54*	*1*
13C5 PFPeA	*68*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:54*	*1*
13C2 PFHxA	*88*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:54*	*1*
13C4 PFHpA	*83*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:54*	*1*
13C4 PFOA	*86*		*25 - 150*	*07/29/21 11:32*	*07/29/21 17:54*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Well 17
Date Collected: 07/28/21 09:30
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-7
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	89		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C2 PFDA	100		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C2 PFUnA	95		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C2 PFDoA	98		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C2 PFTeDA	101		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C2 PFHxDA	119		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C3 PFBS	95		25 - 150	07/29/21 11:32	07/29/21 17:54	1
18O2 PFHxS	87		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C4 PFOS	90		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C8 FOSA	88		10 - 150	07/29/21 11:32	07/29/21 17:54	1
d3-NMeFOSAA	82		25 - 150	07/29/21 11:32	07/29/21 17:54	1
d5-NEtFOSAA	79		25 - 150	07/29/21 11:32	07/29/21 17:54	1
d-N-MeFOSA-M	73		10 - 150	07/29/21 11:32	07/29/21 17:54	1
d-N-EtFOSA-M	80		10 - 150	07/29/21 11:32	07/29/21 17:54	1
d7-N-MeFOSE-M	75		10 - 150	07/29/21 11:32	07/29/21 17:54	1
d9-N-EtFOSE-M	79		10 - 150	07/29/21 11:32	07/29/21 17:54	1
M2-4:2 FTS	66		25 - 150	07/29/21 11:32	07/29/21 17:54	1
M2-6:2 FTS	78		25 - 150	07/29/21 11:32	07/29/21 17:54	1
M2-8:2 FTS	88		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C3 HFPO-DA	85		25 - 150	07/29/21 11:32	07/29/21 17:54	1
13C2 10:2 FTS	88		25 - 150	07/29/21 11:32	07/29/21 17:54	1

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

Job ID: 320-76874-1

Client Sample ID: Well 24

Date Collected: 07/28/21 09:34
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-8

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.1**		4.7	2.2	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluoropentanoic acid (PFPeA)	**2.0**		1.9	0.46	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorohexanoic acid (PFHxA)	**3.6**		1.9	0.54	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluoroheptanoic acid (PFHpA)	**0.81**	**J**	1.9	0.23	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorooctanoic acid (PFOA)	**3.1**		1.9	0.79	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorobutanesulfonic acid (PFBS)	**3.0**		1.9	0.19	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluoropentanesulfonic acid (PFPeS)	**2.1**		1.9	0.28	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorohexanesulfonic acid (PFHxS)	**12**		1.9	0.53	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.31**	**J**	1.9	0.18	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorooctanesulfonic acid (PFOS)	**3.2**	**C**	1.9	0.50	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		07/29/21 11:32	07/29/21 18:32	1
Perfluorooctanesulfonamide (FOSA)	<0.91		1.9	0.91	ng/L		07/29/21 11:32	07/29/21 18:32	1
NEtFOSA	<0.81		1.9	0.81	ng/L		07/29/21 11:32	07/29/21 18:32	1
NMeFOSA	<0.40		1.9	0.40	ng/L		07/29/21 11:32	07/29/21 18:32	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		07/29/21 11:32	07/29/21 18:32	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		07/29/21 11:32	07/29/21 18:32	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/29/21 11:32	07/29/21 18:32	1
NEtFOSE	**0.79**	**J**	1.9	0.79	ng/L		07/29/21 11:32	07/29/21 18:32	1
4:2 FTS	<0.22		1.9	0.22	ng/L		07/29/21 11:32	07/29/21 18:32	1
6:2 FTS	<2.3		4.7	2.3	ng/L		07/29/21 11:32	07/29/21 18:32	1
8:2 FTS	<0.43		1.9	0.43	ng/L		07/29/21 11:32	07/29/21 18:32	1
10:2 FTS	<0.63		1.9	0.63	ng/L		07/29/21 11:32	07/29/21 18:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		07/29/21 11:32	07/29/21 18:32	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/29/21 11:32	07/29/21 18:32	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		07/29/21 11:32	07/29/21 18:32	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		07/29/21 11:32	07/29/21 18:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*63*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:32*	*1*
13C5 PFPeA	*48*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:32*	*1*
13C2 PFHxA	*72*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:32*	*1*
13C4 PFHpA	*61*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:32*	*1*
13C4 PFOA	*67*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:32*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Well 24
Date Collected: 07/28/21 09:34
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-8
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	64		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C2 PFDA	73		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C2 PFUnA	74		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C2 PFDoA	74		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C2 PFTeDA	77		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C2 PFHxDA	89		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C3 PFBS	72		25 - 150	07/29/21 11:32	07/29/21 18:32	1
18O2 PFHxS	72		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C4 PFOS	75		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C8 FOSA	65		10 - 150	07/29/21 11:32	07/29/21 18:32	1
d3-NMeFOSAA	68		25 - 150	07/29/21 11:32	07/29/21 18:32	1
d5-NEtFOSAA	68		25 - 150	07/29/21 11:32	07/29/21 18:32	1
d-N-MeFOSA-M	62		10 - 150	07/29/21 11:32	07/29/21 18:32	1
d-N-EtFOSA-M	61		10 - 150	07/29/21 11:32	07/29/21 18:32	1
d7-N-MeFOSE-M	56		10 - 150	07/29/21 11:32	07/29/21 18:32	1
d9-N-EtFOSE-M	61		10 - 150	07/29/21 11:32	07/29/21 18:32	1
M2-4:2 FTS	59		25 - 150	07/29/21 11:32	07/29/21 18:32	1
M2-6:2 FTS	71		25 - 150	07/29/21 11:32	07/29/21 18:32	1
M2-8:2 FTS	69		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C3 HFPO-DA	63		25 - 150	07/29/21 11:32	07/29/21 18:32	1
13C2 10:2 FTS	73		25 - 150	07/29/21 11:32	07/29/21 18:32	1

Client Sample ID: Well 9

Date Collected: 07/28/21 09:37
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-9

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.9**	**J**	4.7	2.3	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorohexanoic acid (PFHxA)	**0.54**	**J**	1.9	0.54	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.9	0.23	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorooctanoic acid (PFOA)	<0.80		1.9	0.80	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorononanoic acid (PFNA)	<0.25		1.9	0.25	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorododecanoic acid (PFDoA)	<0.52		1.9	0.52	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorobutanesulfonic acid (PFBS)	**0.54**	**J**	1.9	0.19	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluoropentanesulfonic acid (PFPeS)	<0.28		1.9	0.28	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorohexanesulfonic acid (PFHxS)	**0.95**	**J**	1.9	0.53	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorooctanesulfonic acid (PFOS)	**0.89**	**J**	1.9	0.51	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		07/29/21 11:32	07/29/21 18:41	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		07/29/21 11:32	07/29/21 18:41	1
NEtFOSA	<0.82		1.9	0.82	ng/L		07/29/21 11:32	07/29/21 18:41	1
NMeFOSA	<0.40		1.9	0.40	ng/L		07/29/21 11:32	07/29/21 18:41	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		07/29/21 11:32	07/29/21 18:41	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		07/29/21 11:32	07/29/21 18:41	1
NMeFOSE	<1.3		3.8	1.3	ng/L		07/29/21 11:32	07/29/21 18:41	1
NEtFOSE	<0.80		1.9	0.80	ng/L		07/29/21 11:32	07/29/21 18:41	1
4:2 FTS	<0.23		1.9	0.23	ng/L		07/29/21 11:32	07/29/21 18:41	1
6:2 FTS	<2.3		4.7	2.3	ng/L		07/29/21 11:32	07/29/21 18:41	1
8:2 FTS	<0.43		1.9	0.43	ng/L		07/29/21 11:32	07/29/21 18:41	1
10:2 FTS	<0.63		1.9	0.63	ng/L		07/29/21 11:32	07/29/21 18:41	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.38		1.9	0.38	ng/L		07/29/21 11:32	07/29/21 18:41	1
HFPO-DA (GenX)	<1.4		3.8	1.4	ng/L		07/29/21 11:32	07/29/21 18:41	1
9Cl-PF3ONS	<0.23		1.9	0.23	ng/L		07/29/21 11:32	07/29/21 18:41	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		07/29/21 11:32	07/29/21 18:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*62*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:41*	*1*
13C5 PFPeA	*40*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:41*	*1*
13C2 PFHxA	*83*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:41*	*1*
13C4 PFHpA	*62*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:41*	*1*
13C4 PFOA	*81*		*25 - 150*	*07/29/21 11:32*	*07/29/21 18:41*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Well 9
Date Collected: 07/28/21 09:37
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-9
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	71		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C2 PFDA	92		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C2 PFUnA	89		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C2 PFDoA	88		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C2 PFTeDA	96		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C2 PFHxDA	118		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C3 PFBS	79		25 - 150	07/29/21 11:32	07/29/21 18:41	1
18O2 PFHxS	82		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C4 PFOS	91		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C8 FOSA	84		10 - 150	07/29/21 11:32	07/29/21 18:41	1
d3-NMeFOSAA	82		25 - 150	07/29/21 11:32	07/29/21 18:41	1
d5-NEtFOSAA	77		25 - 150	07/29/21 11:32	07/29/21 18:41	1
d-N-MeFOSA-M	83		10 - 150	07/29/21 11:32	07/29/21 18:41	1
d-N-EtFOSA-M	85		10 - 150	07/29/21 11:32	07/29/21 18:41	1
d7-N-MeFOSE-M	68		10 - 150	07/29/21 11:32	07/29/21 18:41	1
d9-N-EtFOSE-M	73		10 - 150	07/29/21 11:32	07/29/21 18:41	1
M2-4:2 FTS	81		25 - 150	07/29/21 11:32	07/29/21 18:41	1
M2-6:2 FTS	79		25 - 150	07/29/21 11:32	07/29/21 18:41	1
M2-8:2 FTS	91		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C3 HFPO-DA	77		25 - 150	07/29/21 11:32	07/29/21 18:41	1
13C2 10:2 FTS	99		25 - 150	07/29/21 11:32	07/29/21 18:41	1

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

Job ID: 320-76874-1

Client Sample ID: Riverview Boat Launch-Chip-Riv.
Date Collected: 07/28/21 09:44
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-10
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**2.5**	**J**	4.3	2.1	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluoropentanoic acid (PFPeA)	<0.42		1.7	0.42	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorohexanoic acid (PFHxA)	**0.91**	**J**	1.7	0.50	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluoroheptanoic acid (PFHpA)	**0.79**	**J**	1.7	0.22	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorooctanoic acid (PFOA)	**1.1**	**J**	1.7	0.73	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorononanoic acid (PFNA)	**0.35**	**J C**	1.7	0.23	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluoroundecanoic acid (PFUnA)	<0.95		1.7	0.95	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorododecanoic acid (PFDoA)	<0.47		1.7	0.47	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorotridecanoic acid (PFTrDA)	<1.1		1.7	1.1	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorotetradecanoic acid (PFTeA)	<0.63		1.7	0.63	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.77		1.7	0.77	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.81		1.7	0.81	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorohexanesulfonic acid (PFHxS)	<0.49		1.7	0.49	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.16		1.7	0.16	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorooctanesulfonic acid (PFOS)	**0.90**	**J C**	1.7	0.47	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorododecanesulfonic acid (PFDoS)	<0.84		1.7	0.84	ng/L		07/29/21 15:54	07/29/21 20:06	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		07/29/21 15:54	07/29/21 20:06	1
NEtFOSA	<0.75		1.7	0.75	ng/L		07/29/21 15:54	07/29/21 20:06	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/29/21 15:54	07/29/21 20:06	1
NMeFOSAA	<1.0		4.3	1.0	ng/L		07/29/21 15:54	07/29/21 20:06	1
NEtFOSAA	<1.1		4.3	1.1	ng/L		07/29/21 15:54	07/29/21 20:06	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/29/21 15:54	07/29/21 20:06	1
NEtFOSE	<0.73		1.7	0.73	ng/L		07/29/21 15:54	07/29/21 20:06	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/29/21 15:54	07/29/21 20:06	1
6:2 FTS	<2.2		4.3	2.2	ng/L		07/29/21 15:54	07/29/21 20:06	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/29/21 15:54	07/29/21 20:06	1
10:2 FTS	<0.58		1.7	0.58	ng/L		07/29/21 15:54	07/29/21 20:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		07/29/21 15:54	07/29/21 20:06	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/29/21 15:54	07/29/21 20:06	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/29/21 15:54	07/29/21 20:06	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/29/21 15:54	07/29/21 20:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*61*		*25 - 150*	*07/29/21 15:54*	*07/29/21 20:06*	*1*
13C5 PFPeA	*39*		*25 - 150*	*07/29/21 15:54*	*07/29/21 20:06*	*1*
13C2 PFHxA	*87*		*25 - 150*	*07/29/21 15:54*	*07/29/21 20:06*	*1*
13C4 PFHpA	*63*		*25 - 150*	*07/29/21 15:54*	*07/29/21 20:06*	*1*
13C4 PFOA	*89*		*25 - 150*	*07/29/21 15:54*	*07/29/21 20:06*	*1*
13C5 PFNA	*76*		*25 - 150*	*07/29/21 15:54*	*07/29/21 20:06*	*1*
13C2 PFDA	*109*		*25 - 150*	*07/29/21 15:54*	*07/29/21 20:06*	*1*

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

Job ID: 320-76874-1

Client Sample ID: Riverview Boat Launch-Chip-Riv.
Date Collected: 07/28/21 09:44
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-10
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	99		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C2 PFDoA	104		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C2 PFTeDA	93		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C2 PFHxDA	119		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C3 PFBS	76		25 - 150	07/29/21 15:54	07/29/21 20:06	1
18O2 PFHxS	75		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C4 PFOS	92		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C8 FOSA	93		10 - 150	07/29/21 15:54	07/29/21 20:06	1
d3-NMeFOSAA	87		25 - 150	07/29/21 15:54	07/29/21 20:06	1
d5-NEtFOSAA	86		25 - 150	07/29/21 15:54	07/29/21 20:06	1
d-N-MeFOSA-M	89		10 - 150	07/29/21 15:54	07/29/21 20:06	1
d-N-EtFOSA-M	94		10 - 150	07/29/21 15:54	07/29/21 20:06	1
d7-N-MeFOSE-M	70		10 - 150	07/29/21 15:54	07/29/21 20:06	1
d9-N-EtFOSE-M	75		10 - 150	07/29/21 15:54	07/29/21 20:06	1
M2-4:2 FTS	99		25 - 150	07/29/21 15:54	07/29/21 20:06	1
M2-6:2 FTS	102		25 - 150	07/29/21 15:54	07/29/21 20:06	1
M2-8:2 FTS	108		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C3 HFPO-DA	70		25 - 150	07/29/21 15:54	07/29/21 20:06	1
13C2 10:2 FTS	108		25 - 150	07/29/21 15:54	07/29/21 20:06	1

Isotope Dilution Summary

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

Job ID: 320-76874-1

Method: 537 (modified) - Fluorinated Alkyl Substances

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

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-76874-1	Well 16	71	55	91	77	85	80	94	91
320-76874-2	Entry Point Line 2	67	43	79	62	78	72	92	90
320-76874-3	Entry Point Line 2 FB	103	89	108	104	104	101	108	101
320-76874-4	Well 22	80	63	88	81	82	79	92	88
320-76874-5	Well 14	75	47	95	70	88	80	116	105
320-76874-6	Well 11	87	68	100	81	91	88	102	98
320-76874-7	Well 17	87	68	88	83	86	89	100	95
320-76874-8	Well 24	63	48	72	61	67	64	73	74
320-76874-9	Well 9	62	40	83	62	81	71	92	89
320-76874-10	Riverview Boat Launch-Chip-Riv.	61	39	87	63	89	76	109	99
LCS 320-511302/2-A	Lab Control Sample	88	89	92	93	89	90	97	95
LCS 320-511404/2-A	Lab Control Sample	80	77	78	79	82	76	81	76
LCSD 320-511302/3-A	Lab Control Sample Dup	87	81	87	90	91	86	91	87
LCSD 320-511404/3-A	Lab Control Sample Dup	78	73	80	80	79	74	78	75
MB 320-511302/1-A	Method Blank	88	80	84	86	84	81	86	83
MB 320-511404/1-A	Method Blank	94	91	105	98	102	99	108	102

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoA	PFTDA	PFHxDA	C3PFBS	PFHxS	PFOS	PFOSA	d3NMFOS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(10-150)	(25-150)
320-76874-1	Well 16	92	98	118	92	84	93	91	91
320-76874-2	Entry Point Line 2	85	91	119	76	71	88	78	79
320-76874-3	Entry Point Line 2 FB	108	105	123	120	102	104	103	95
320-76874-4	Well 22	89	94	109	87	81	87	83	78
320-76874-5	Well 14	100	116	149	90	91	104	99	83
320-76874-6	Well 11	97	102	125	99	91	100	92	86
320-76874-7	Well 17	98	101	119	95	87	90	88	82
320-76874-8	Well 24	74	77	89	72	72	75	65	68
320-76874-9	Well 9	88	96	118	79	82	91	84	82
320-76874-10	Riverview Boat Launch-Chip-Riv.	104	93	119	76	75	92	93	87
LCS 320-511302/2-A	Lab Control Sample	96	92	110	104	98	95	92	88
LCS 320-511404/2-A	Lab Control Sample	79	82	90	90	80	81	72	72
LCSD 320-511302/3-A	Lab Control Sample Dup	89	87	101	105	85	91	81	83
LCSD 320-511404/3-A	Lab Control Sample Dup	81	80	88	89	82	80	76	73
MB 320-511302/1-A	Method Blank	87	84	92	91	81	84	85	81
MB 320-511404/1-A	Method Blank	104	106	129	108	100	106	103	102

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		d5NEFOS	dMeFOSA	dEtFOSA	NMFM	NEFM	M242FTS	M262FTS	M282FTS
Lab Sample ID	Client Sample ID	(25-150)	(10-150)	(10-150)	(10-150)	(10-150)	(25-150)	(25-150)	(25-150)
320-76874-1	Well 16	81	82	88	69	75	88	86	91
320-76874-2	Entry Point Line 2	79	75	77	69	70	81	76	96
320-76874-3	Entry Point Line 2 FB	94	93	92	85	87	87	91	92
320-76874-4	Well 22	83	79	79	72	77	72	81	87
320-76874-5	Well 14	86	92	97	81	86	93	90	121
320-76874-6	Well 11	88	88	95	78	79	73	91	101
320-76874-7	Well 17	79	73	80	75	79	66	78	88
320-76874-8	Well 24	68	62	61	56	61	59	71	69
320-76874-9	Well 9	77	83	85	68	73	81	79	91

Isotope Dilution Summary

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

Job ID: 320-76874-1

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

Matrix: Water

Prep Type: Total/NA

		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)
320-76874-10	Riverview Boat Launch-Chip-Riv	86	89	94	70	75	99	102	108
LCS 320-511302/2-A	Lab Control Sample	89	83	83	84	83	74	78	90
LCS 320-511404/2-A	Lab Control Sample	77	66	70	70	72	60	76	71
LCSD 320-511302/3-A	Lab Control Sample Dup	87	79	80	71	72	71	77	81
LCSD 320-511404/3-A	Lab Control Sample Dup	78	66	71	70	66	62	67	75
MB 320-511302/1-A	Method Blank	82	72	75	70	72	76	78	81
MB 320-511404/1-A	Method Blank	104	90	89	89	92	89	102	100

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
320-76874-1	Well 16	76	94
320-76874-2	Entry Point Line 2	81	90
320-76874-3	Entry Point Line 2 FB	105	101
320-76874-4	Well 22	86	90
320-76874-5	Well 14	84	111
320-76874-6	Well 11	92	104
320-76874-7	Well 17	85	88
320-76874-8	Well 24	63	73
320-76874-9	Well 9	77	99
320-76874-10	Riverview Boat Launch-Chip-Riv.	70	108
LCS 320-511302/2-A	Lab Control Sample	91	83
LCS 320-511404/2-A	Lab Control Sample	80	76
LCSD 320-511302/3-A	Lab Control Sample Dup	77	80
LCSD 320-511404/3-A	Lab Control Sample Dup	81	78
MB 320-511302/1-A	Method Blank	85	81
MB 320-511404/1-A	Method Blank	104	94

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

Isotope Dilution Summary

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

Job ID: 320-76874-1

M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
M102FTS = 13C2 10:2 FTS

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-511302/1-A
Matrix: Water
Analysis Batch: 511419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511302

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/29/21 11:32	07/29/21 16:30	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/29/21 11:32	07/29/21 16:30	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/29/21 11:32	07/29/21 16:30	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/29/21 11:32	07/29/21 16:30	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/29/21 11:32	07/29/21 16:30	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/29/21 11:32	07/29/21 16:30	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/29/21 11:32	07/29/21 16:30	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/29/21 11:32	07/29/21 16:30	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/29/21 11:32	07/29/21 16:30	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/29/21 11:32	07/29/21 16:30	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/29/21 11:32	07/29/21 16:30	1
10:2 FTS	<0.67		2.0	0.67	ng/L		07/29/21 11:32	07/29/21 16:30	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/29/21 11:32	07/29/21 16:30	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/29/21 11:32	07/29/21 16:30	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/29/21 11:32	07/29/21 16:30	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/29/21 11:32	07/29/21 16:30	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*88*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:30*	*1*
13C5 PFPeA	*80*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:30*	*1*
13C2 PFHxA	*84*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:30*	*1*
13C4 PFHpA	*86*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:30*	*1*
13C4 PFOA	*84*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:30*	*1*
13C5 PFNA	*81*		*25 - 150*	*07/29/21 11:32*	*07/29/21 16:30*	*1*

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

Lab Sample ID: MB 320-511302/1-A
Matrix: Water
Analysis Batch: 511419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511302

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	86		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C2 PFUnA	83		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C2 PFDoA	87		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C2 PFTeDA	84		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C2 PFHxDA	92		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C3 PFBS	91		25 - 150	07/29/21 11:32	07/29/21 16:30	1
18O2 PFHxS	81		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C4 PFOS	84		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C8 FOSA	85		10 - 150	07/29/21 11:32	07/29/21 16:30	1
d3-NMeFOSAA	81		25 - 150	07/29/21 11:32	07/29/21 16:30	1
d5-NEtFOSAA	82		25 - 150	07/29/21 11:32	07/29/21 16:30	1
d-N-MeFOSA-M	72		10 - 150	07/29/21 11:32	07/29/21 16:30	1
d-N-EtFOSA-M	75		10 - 150	07/29/21 11:32	07/29/21 16:30	1
d7-N-MeFOSE-M	70		10 - 150	07/29/21 11:32	07/29/21 16:30	1
d9-N-EtFOSE-M	72		10 - 150	07/29/21 11:32	07/29/21 16:30	1
M2-4:2 FTS	76		25 - 150	07/29/21 11:32	07/29/21 16:30	1
M2-6:2 FTS	78		25 - 150	07/29/21 11:32	07/29/21 16:30	1
M2-8:2 FTS	81		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C3 HFPO-DA	85		25 - 150	07/29/21 11:32	07/29/21 16:30	1
13C2 10:2 FTS	81		25 - 150	07/29/21 11:32	07/29/21 16:30	1

Lab Sample ID: LCS 320-511302/2-A
Matrix: Water
Analysis Batch: 511419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	40.5		ng/L		101	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	41.6		ng/L		104	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	39.4		ng/L		99	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	40.8		ng/L		102	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	39.3		ng/L		98	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.6		ng/L		104	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	37.4		ng/L		93	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	41.4		ng/L		104	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	39.4		ng/L		99	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	42.5		ng/L		106	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	40.2		ng/L		101	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	42.3		ng/L		106	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	36.2		ng/L		90	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	31.2		ng/L		88	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	31.3		ng/L		83	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.3		ng/L		91	60 - 135

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

Lab Sample ID: LCS 320-511302/2-A
Matrix: Water
Analysis Batch: 511419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.9		ng/L		102	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	37.7		ng/L		101	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	40.3		ng/L		105	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	36.6		ng/L		95	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	40.7		ng/L		105	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	41.8		ng/L		104	60 - 135
NEtFOSA	40.0	42.6		ng/L		107	60 - 135
NMeFOSA	40.0	41.9		ng/L		105	60 - 135
NMeFOSAA	40.0	39.8		ng/L		100	60 - 135
NEtFOSAA	40.0	40.9		ng/L		102	60 - 135
NMeFOSE	40.0	36.8		ng/L		92	60 - 135
NEtFOSE	40.0	40.2		ng/L		100	60 - 135
4:2 FTS	37.4	43.4		ng/L		116	60 - 135
6:2 FTS	37.9	41.8		ng/L		110	60 - 135
8:2 FTS	38.3	40.4		ng/L		105	60 - 135
10:2 FTS	38.6	39.9		ng/L		103	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.6		ng/L		100	60 - 135
HFPO-DA (GenX)	40.0	39.0		ng/L		98	60 - 135
9Cl-PF3ONS	37.3	36.8		ng/L		99	60 - 135
11Cl-PF3OUdS	37.7	40.6		ng/L		108	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*88*		*25 - 150*
13C5 PFPeA	*89*		*25 - 150*
13C2 PFHxA	*92*		*25 - 150*
13C4 PFHpA	*93*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*90*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C2 PFUnA	*95*		*25 - 150*
13C2 PFDoA	*96*		*25 - 150*
13C2 PFTeDA	*92*		*25 - 150*
13C2 PFHxDA	*110*		*25 - 150*
13C3 PFBS	*104*		*25 - 150*
18O2 PFHxS	*98*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C8 FOSA	*92*		*10 - 150*
d3-NMeFOSAA	*88*		*25 - 150*
d5-NEtFOSAA	*89*		*25 - 150*
d-N-MeFOSA-M	*83*		*10 - 150*
d-N-EtFOSA-M	*83*		*10 - 150*
d7-N-MeFOSE-M	*84*		*10 - 150*
d9-N-EtFOSE-M	*83*		*10 - 150*

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

Lab Sample ID: LCS 320-511302/2-A
Matrix: Water
Analysis Batch: 511419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511302

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	74		25 - 150
M2-6:2 FTS	78		25 - 150
M2-8:2 FTS	90		25 - 150
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	83		25 - 150

Lab Sample ID: LCSD 320-511302/3-A
Matrix: Water
Analysis Batch: 511419

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511302

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	40.0		ng/L		100	60 - 135	1	30
Perfluoropentanoic acid (PFPeA)			40.0	42.3		ng/L		106	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)			40.0	39.7		ng/L		99	60 - 135	1	30
Perfluoroheptanoic acid (PFHpA)			40.0	37.5		ng/L		94	60 - 135	8	30
Perfluorooctanoic acid (PFOA)			40.0	37.7		ng/L		94	60 - 135	4	30
Perfluorononanoic acid (PFNA)			40.0	39.6		ng/L		99	60 - 135	5	30
Perfluorodecanoic acid (PFDA)			40.0	35.1		ng/L		88	60 - 135	6	30
Perfluoroundecanoic acid (PFUnA)			40.0	44.8		ng/L		112	60 - 135	8	30
Perfluorododecanoic acid (PFDoA)			40.0	40.1		ng/L		100	60 - 135	2	30
Perfluorotridecanoic acid (PFTrDA)			40.0	39.4		ng/L		99	60 - 135	8	30
Perfluorotetradecanoic acid (PFTeA)			40.0	39.1		ng/L		98	60 - 135	3	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	40.9		ng/L		102	60 - 135	3	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	39.1		ng/L		98	60 - 135	8	30
Perfluorobutanesulfonic acid (PFBS)			35.4	28.5		ng/L		81	60 - 135	9	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	29.7		ng/L		79	60 - 135	5	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	35.2		ng/L		97	60 - 135	6	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	36.4		ng/L		95	60 - 135	7	30
Perfluorooctanesulfonic acid (PFOS)			37.1	37.7		ng/L		102	60 - 135	0	30
Perfluorononanesulfonic acid (PFNS)			38.4	40.1		ng/L		104	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	33.3		ng/L		86	60 - 135	9	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	39.5		ng/L		102	60 - 135	3	30
Perfluorooctanesulfonamide (FOSA)			40.0	41.4		ng/L		103	60 - 135	1	30
NEtFOSA			40.0	39.9		ng/L		100	60 - 135	7	30
NMeFOSA			40.0	40.1		ng/L		100	60 - 135	4	30
NMeFOSAA			40.0	41.6		ng/L		104	60 - 135	4	30
NEtFOSAA			40.0	40.5		ng/L		101	60 - 135	1	30
NMeFOSE			40.0	41.2		ng/L		103	60 - 135	11	30

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

Lab Sample ID: LCSD 320-511302/3-A
Matrix: Water
Analysis Batch: 511419

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511302

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE			40.0	42.3		ng/L		106	60 - 135	5	30
4:2 FTS			37.4	37.2		ng/L		100	60 - 135	15	30
6:2 FTS			37.9	39.9		ng/L		105	60 - 135	5	30
8:2 FTS			38.3	40.8		ng/L		106	60 - 135	1	30
10:2 FTS			38.6	39.1		ng/L		101	60 - 135	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	36.8		ng/L		98	60 - 135	2	30
HFPO-DA (GenX)			40.0	42.8		ng/L		107	60 - 135	9	30
9Cl-PF3ONS			37.3	36.0		ng/L		97	60 - 135	2	30
11Cl-PF3OUdS			37.7	38.2		ng/L		101	60 - 135	6	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C4 PFBA	*87*		*25 - 150*
13C5 PFPeA	*81*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFHpA	*90*		*25 - 150*
13C4 PFOA	*91*		*25 - 150*
13C5 PFNA	*86*		*25 - 150*
13C2 PFDA	*91*		*25 - 150*
13C2 PFUnA	*87*		*25 - 150*
13C2 PFDoA	*89*		*25 - 150*
13C2 PFTeDA	*87*		*25 - 150*
13C2 PFHxDA	*101*		*25 - 150*
13C3 PFBS	*105*		*25 - 150*
18O2 PFHxS	*85*		*25 - 150*
13C4 PFOS	*91*		*25 - 150*
13C8 FOSA	*81*		*10 - 150*
d3-NMeFOSAA	*83*		*25 - 150*
d5-NEtFOSAA	*87*		*25 - 150*
d-N-MeFOSA-M	*79*		*10 - 150*
d-N-EtFOSA-M	*80*		*10 - 150*
d7-N-MeFOSE-M	*71*		*10 - 150*
d9-N-EtFOSE-M	*72*		*10 - 150*
M2-4:2 FTS	*71*		*25 - 150*
M2-6:2 FTS	*77*		*25 - 150*
M2-8:2 FTS	*81*		*25 - 150*
13C3 HFPO-DA	*77*		*25 - 150*
13C2 10:2 FTS	*80*		*25 - 150*

Lab Sample ID: MB 320-511404/1-A
Matrix: Water
Analysis Batch: 511485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511404

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/29/21 15:54	07/30/21 05:58	1

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

Lab Sample ID: MB 320-511404/1-A
Matrix: Water
Analysis Batch: 511485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511404

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/29/21 15:54	07/30/21 05:58	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/29/21 15:54	07/30/21 05:58	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/29/21 15:54	07/30/21 05:58	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/29/21 15:54	07/30/21 05:58	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/29/21 15:54	07/30/21 05:58	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/29/21 15:54	07/30/21 05:58	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/29/21 15:54	07/30/21 05:58	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/29/21 15:54	07/30/21 05:58	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/29/21 15:54	07/30/21 05:58	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/29/21 15:54	07/30/21 05:58	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/29/21 15:54	07/30/21 05:58	1
10:2 FTS	<0.67		2.0	0.67	ng/L		07/29/21 15:54	07/30/21 05:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/29/21 15:54	07/30/21 05:58	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/29/21 15:54	07/30/21 05:58	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/29/21 15:54	07/30/21 05:58	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/29/21 15:54	07/30/21 05:58	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*94*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C5 PFPeA	*91*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C2 PFHxA	*105*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C4 PFHpA	*98*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C4 PFOA	*102*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C5 PFNA	*99*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C2 PFDA	*108*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C2 PFUnA	*102*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C2 PFDoA	*104*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C2 PFTeDA	*106*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*
13C2 PFHxDA	*129*		*25 - 150*	*07/29/21 15:54*	*07/30/21 05:58*	*1*

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

Lab Sample ID: MB 320-511404/1-A
Matrix: Water
Analysis Batch: 511485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 511404

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	108		25 - 150	07/29/21 15:54	07/30/21 05:58	1
18O2 PFHxS	100		25 - 150	07/29/21 15:54	07/30/21 05:58	1
13C4 PFOS	106		25 - 150	07/29/21 15:54	07/30/21 05:58	1
13C8 FOSA	103		10 - 150	07/29/21 15:54	07/30/21 05:58	1
d3-NMeFOSAA	102		25 - 150	07/29/21 15:54	07/30/21 05:58	1
d5-NEtFOSAA	104		25 - 150	07/29/21 15:54	07/30/21 05:58	1
d-N-MeFOSA-M	90		10 - 150	07/29/21 15:54	07/30/21 05:58	1
d-N-EtFOSA-M	89		10 - 150	07/29/21 15:54	07/30/21 05:58	1
d7-N-MeFOSE-M	89		10 - 150	07/29/21 15:54	07/30/21 05:58	1
d9-N-EtFOSE-M	92		10 - 150	07/29/21 15:54	07/30/21 05:58	1
M2-4:2 FTS	89		25 - 150	07/29/21 15:54	07/30/21 05:58	1
M2-6:2 FTS	102		25 - 150	07/29/21 15:54	07/30/21 05:58	1
M2-8:2 FTS	100		25 - 150	07/29/21 15:54	07/30/21 05:58	1
13C3 HFPO-DA	104		25 - 150	07/29/21 15:54	07/30/21 05:58	1
13C2 10:2 FTS	94		25 - 150	07/29/21 15:54	07/30/21 05:58	1

Lab Sample ID: LCS 320-511404/2-A
Matrix: Water
Analysis Batch: 511425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	38.3		ng/L		96	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	40.7		ng/L		102	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	44.1		ng/L		110	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	39.0		ng/L		97	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	38.9		ng/L		97	60 - 135
Perfluorononanoic acid (PFNA)	40.0	42.0		ng/L		105	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	38.3		ng/L		96	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	45.4		ng/L		114	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	39.6		ng/L		99	60 - 135
Perfluorotridecanoic acid (PFTrDA)	40.0	41.2		ng/L		103	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	38.2		ng/L		95	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	42.9		ng/L		107	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	38.7		ng/L		97	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	29.1		ng/L		82	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	32.4		ng/L		86	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.9		ng/L		99	60 - 135
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.7		ng/L		102	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	36.9		ng/L		99	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	39.6		ng/L		103	60 - 135

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

Lab Sample ID: LCS 320-511404/2-A
Matrix: Water
Analysis Batch: 511425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 511404

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanesulfonic acid (PFDS)	38.6	39.5		ng/L		102	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	41.6		ng/L		108	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	40.4		ng/L		101	60 - 135
NEtFOSA	40.0	41.8		ng/L		104	60 - 135
NMeFOSA	40.0	43.5		ng/L		109	60 - 135
NMeFOSAA	40.0	41.8		ng/L		104	60 - 135
NEtFOSAA	40.0	39.0		ng/L		98	60 - 135
NMeFOSE	40.0	39.1		ng/L		98	60 - 135
NEtFOSE	40.0	38.3		ng/L		96	60 - 135
4:2 FTS	37.4	37.7		ng/L		101	60 - 135
6:2 FTS	37.9	32.7		ng/L		86	60 - 135
8:2 FTS	38.3	38.4		ng/L		100	60 - 135
10:2 FTS	38.6	36.7		ng/L		95	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.3		ng/L		99	60 - 135
HFPO-DA (GenX)	40.0	38.1		ng/L		95	60 - 135
9Cl-PF3ONS	37.3	35.6		ng/L		95	60 - 135
11Cl-PF3OUdS	37.7	41.4		ng/L		110	60 - 135

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*80*		*25 - 150*
13C5 PFPeA	*77*		*25 - 150*
13C2 PFHxA	*78*		*25 - 150*
13C4 PFHpA	*79*		*25 - 150*
13C4 PFOA	*82*		*25 - 150*
13C5 PFNA	*76*		*25 - 150*
13C2 PFDA	*81*		*25 - 150*
13C2 PFUnA	*76*		*25 - 150*
13C2 PFDoA	*79*		*25 - 150*
13C2 PFTeDA	*82*		*25 - 150*
13C2 PFHxDA	*90*		*25 - 150*
13C3 PFBS	*90*		*25 - 150*
18O2 PFHxS	*80*		*25 - 150*
13C4 PFOS	*81*		*25 - 150*
13C8 FOSA	*72*		*10 - 150*
d3-NMeFOSAA	*72*		*25 - 150*
d5-NEtFOSAA	*77*		*25 - 150*
d-N-MeFOSA-M	*66*		*10 - 150*
d-N-EtFOSA-M	*70*		*10 - 150*
d7-N-MeFOSE-M	*70*		*10 - 150*
d9-N-EtFOSE-M	*72*		*10 - 150*
M2-4:2 FTS	*60*		*25 - 150*
M2-6:2 FTS	*76*		*25 - 150*
M2-8:2 FTS	*71*		*25 - 150*
13C3 HFPO-DA	*80*		*25 - 150*
13C2 10:2 FTS	*76*		*25 - 150*

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

Lab Sample ID: LCSD 320-511404/3-A
Matrix: Water
Analysis Batch: 511425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 511404

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	39.1		ng/L		98	60 - 135	2	30
Perfluoropentanoic acid (PFPeA)			40.0	43.6		ng/L		109	60 - 135	7	30
Perfluorohexanoic acid (PFHxA)			40.0	41.3		ng/L		103	60 - 135	6	30
Perfluoroheptanoic acid (PFHpA)			40.0	39.8		ng/L		100	60 - 135	2	30
Perfluorooctanoic acid (PFOA)			40.0	40.3		ng/L		101	60 - 135	4	30
Perfluorononanoic acid (PFNA)			40.0	43.3		ng/L		108	60 - 135	3	30
Perfluorodecanoic acid (PFDA)			40.0	37.6		ng/L		94	60 - 135	2	30
Perfluoroundecanoic acid (PFUnA)			40.0	45.3		ng/L		113	60 - 135	0	30
Perfluorododecanoic acid (PFDoA)			40.0	38.9		ng/L		97	60 - 135	2	30
Perfluorotridecanoic acid (PFTrDA)			40.0	41.2		ng/L		103	60 - 135	0	30
Perfluorotetradecanoic acid (PFTeA)			40.0	38.7		ng/L		97	60 - 135	2	30
Perfluoro-n-hexadecanoic acid (PFHxDA)			40.0	46.0		ng/L		115	60 - 135	7	30
Perfluoro-n-octadecanoic acid (PFODA)			40.0	33.2		ng/L		83	60 - 135	15	30
Perfluorobutanesulfonic acid (PFBS)			35.4	30.0		ng/L		85	60 - 135	3	30
Perfluoropentanesulfonic acid (PFPeS)			37.5	30.4		ng/L		81	60 - 135	6	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	33.8		ng/L		93	60 - 135	6	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	38.2		ng/L		100	60 - 135	1	30
Perfluorooctanesulfonic acid (PFOS)			37.1	36.8		ng/L		99	60 - 135	0	30
Perfluorononanesulfonic acid (PFNS)			38.4	39.2		ng/L		102	60 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)			38.6	36.5		ng/L		95	60 - 135	8	30
Perfluorododecanesulfonic acid (PFDoS)			38.7	41.6		ng/L		107	60 - 135	0	30
Perfluorooctanesulfonamide (FOSA)			40.0	39.7		ng/L		99	60 - 135	2	30
NEtFOSA			40.0	40.4		ng/L		101	60 - 135	3	30
NMeFOSA			40.0	42.2		ng/L		106	60 - 135	3	30
NMeFOSAA			40.0	42.0		ng/L		105	60 - 135	0	30
NEtFOSAA			40.0	38.0		ng/L		95	60 - 135	2	30
NMeFOSE			40.0	41.7		ng/L		104	60 - 135	6	30
NEtFOSE			40.0	40.2		ng/L		101	60 - 135	5	30
4:2 FTS			37.4	39.3		ng/L		105	60 - 135	4	30
6:2 FTS			37.9	38.0		ng/L		100	60 - 135	15	30
8:2 FTS			38.3	37.4		ng/L		98	60 - 135	3	30
10:2 FTS			38.6	35.8		ng/L		93	60 - 135	3	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	38.3		ng/L		102	60 - 135	3	30
HFPO-DA (GenX)			40.0	37.1		ng/L		93	60 - 135	3	30
9Cl-PF3ONS			37.3	36.0		ng/L		97	60 - 135	1	30
11Cl-PF3OUdS			37.7	38.8		ng/L		103	60 - 135	6	30

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

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C4 PFBA	78		25 - 150
13C5 PFPeA	73		25 - 150
13C2 PFHxA	80		25 - 150
13C4 PFHpA	80		25 - 150
13C4 PFOA	79		25 - 150
13C5 PFNA	74		25 - 150
13C2 PFDA	78		25 - 150
13C2 PFUnA	75		25 - 150
13C2 PFDoA	81		25 - 150
13C2 PFTeDA	80		25 - 150
13C2 PFHxDA	88		25 - 150
13C3 PFBS	89		25 - 150
18O2 PFHxS	82		25 - 150
13C4 PFOS	80		25 - 150
13C8 FOSA	76		10 - 150
d3-NMeFOSAA	73		25 - 150
d5-NEtFOSAA	78		25 - 150
d-N-MeFOSA-M	66		10 - 150
d-N-EtFOSA-M	71		10 - 150
d7-N-MeFOSE-M	70		10 - 150
d9-N-EtFOSE-M	66		10 - 150
M2-4:2 FTS	62		25 - 150
M2-6:2 FTS	67		25 - 150
M2-8:2 FTS	75		25 - 150
13C3 HFPO-DA	81		25 - 150
13C2 10:2 FTS	78		25 - 150

LCMS

Prep Batch: 511302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76874-1	Well 16	Total/NA	Water	3535	
320-76874-2	Entry Point Line 2	Total/NA	Water	3535	
320-76874-3	Entry Point Line 2 FB	Total/NA	Water	3535	
320-76874-4	Well 22	Total/NA	Water	3535	
320-76874-5	Well 14	Total/NA	Water	3535	
320-76874-6	Well 11	Total/NA	Water	3535	
320-76874-7	Well 17	Total/NA	Water	3535	
320-76874-8	Well 24	Total/NA	Water	3535	
320-76874-9	Well 9	Total/NA	Water	3535	
MB 320-511302/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-511302/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-511302/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Prep Batch: 511404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76874-10	Riverview Boat Launch-Chip-Riv.	Total/NA	Water	3535	
MB 320-511404/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-511404/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-511404/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 511419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76874-1	Well 16	Total/NA	Water	537 (modified)	511302
320-76874-2	Entry Point Line 2	Total/NA	Water	537 (modified)	511302
320-76874-3	Entry Point Line 2 FB	Total/NA	Water	537 (modified)	511302
320-76874-4	Well 22	Total/NA	Water	537 (modified)	511302
320-76874-5	Well 14	Total/NA	Water	537 (modified)	511302
320-76874-6	Well 11	Total/NA	Water	537 (modified)	511302
320-76874-7	Well 17	Total/NA	Water	537 (modified)	511302
320-76874-8	Well 24	Total/NA	Water	537 (modified)	511302
320-76874-9	Well 9	Total/NA	Water	537 (modified)	511302
MB 320-511302/1-A	Method Blank	Total/NA	Water	537 (modified)	511302
LCS 320-511302/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	511302
LCSD 320-511302/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	511302

Analysis Batch: 511425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76874-10	Riverview Boat Launch-Chip-Riv.	Total/NA	Water	537 (modified)	511404
LCS 320-511404/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	511404
LCSD 320-511404/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	511404

Analysis Batch: 511485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-511404/1-A	Method Blank	Total/NA	Water	537 (modified)	511404

Lab Chronicle

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

Job ID: 320-76874-1

Client Sample ID: Well 16
Date Collected: 07/28/21 08:44
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-1
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			276.4 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 16:58	GWO	TAL SAC

Client Sample ID: Entry Point Line 2
Date Collected: 07/28/21 08:56
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-2
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			279 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 17:07	GWO	TAL SAC

Client Sample ID: Entry Point Line 2 FB
Date Collected: 07/28/21 08:58
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-3
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			285 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 17:17	GWO	TAL SAC

Client Sample ID: Well 22
Date Collected: 07/28/21 09:12
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-4
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			268.2 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 17:26	GWO	TAL SAC

Client Sample ID: Well 14
Date Collected: 07/28/21 09:20
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-5
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			286.4 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 17:36	GWO	TAL SAC

Client Sample ID: Well 11
Date Collected: 07/28/21 09:25
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-6
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			271.7 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 17:45	GWO	TAL SAC

Lab Chronicle

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

Job ID: 320-76874-1

Client Sample ID: Well 17

Date Collected: 07/28/21 09:30
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-7
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			260.6 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 17:54	GWO	TAL SAC

Client Sample ID: Well 24

Date Collected: 07/28/21 09:34
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-8
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			267.8 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 18:32	GWO	TAL SAC

Client Sample ID: Well 9

Date Collected: 07/28/21 09:37
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-9
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			266.6 mL	10.0 mL	511302	07/29/21 11:32	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511419	07/29/21 18:41	GWO	TAL SAC

Client Sample ID: Riverview Boat Launch-Chip-Riv.

Date Collected: 07/28/21 09:44
Date Received: 07/29/21 09:45

Lab Sample ID: 320-76874-10
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			289.8 mL	10.0 mL	511404	07/29/21 15:54	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			511425	07/29/21 20:06	S1M	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: 320-76874-1

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998204680	08-31-21

Method Summary

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

Job ID: 320-76874-1

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: 320-76874-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-76874-1	Well 16	Water	07/28/21 08:44	07/29/21 09:45
320-76874-2	Entry Point Line 2	Water	07/28/21 08:56	07/29/21 09:45
320-76874-3	Entry Point Line 2 FB	Water	07/28/21 08:58	07/29/21 09:45
320-76874-4	Well 22	Water	07/28/21 09:12	07/29/21 09:45
320-76874-5	Well 14	Water	07/28/21 09:20	07/29/21 09:45
320-76874-6	Well 11	Water	07/28/21 09:25	07/29/21 09:45
320-76874-7	Well 17	Water	07/28/21 09:30	07/29/21 09:45
320-76874-8	Well 24	Water	07/28/21 09:34	07/29/21 09:45
320-76874-9	Well 9	Water	07/28/21 09:37	07/29/21 09:45
320-76874-10	Riverview Boat Launch-Chip-Riv.	Water	07/28/21 09:44	07/29/21 09:45

Eurofins TestAmerica, 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 / David Judack	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 320-41485-10138.1
Client Contact: Ty Fadness	Phone: 715-839-6121	E-Mail: sandra.fredrick@eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: City of Eau Claire	PWSID:	Analysis Requested		Job #:
Address: 203 S Farwell	Due Date Requested: ASAP - Thank You!			Preservation Codes:
City: Eau Claire	TAT Requested (days): ~~7 Day~~ TAT → 1-DAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 54701	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			Other:
Email: Tyler.Fadness@EauclaireWi.Gov	WO #:			
Project Name: PFAS Testing	Project #: 32012617			
Site:	SSOW#:			

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 - PFAS_Extended List (36 Analytes)	PFC_IDA_WI - PFAS, Standard List (36 Analytes)	Special Instructions/Note:
			Preservation Code:						
Well 16	7/28/21	0841	G	Water				X	
Entry Point Line 2	7/28/21	0856	G	Water				X	
Entry Point Line 2 FB	7/28/21	0858	G	Water				X	
Well 22	7/28/21	0912	G	Water				X	
Well 14	7/28/21	0920	G	Water				X	
Well 11	7/28/21	0925	G	Water				X	
Well 17	7/28/21	0930	G	Water				X	
Well 24	7/28/21	0934	G	Water				X	
Well 9	7/28/21	0937	G	Water				X	
Riverview Boat Launch - Chip. Riv.	7/28/21	0944	G	Water					

320-76874 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
	[signature]	7/28/21 1330		[signature]	7/29/21 945	ETAWSAC
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by:	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: ☒ Yes Δ No | Custody Seal No.: 1600528, 1651201

Cooler Temperature(s) °C and Other Remarks: 0.8°

Ver: 06/08/2021

7/30/2021

Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 320-76874-1

Login Number: 76874
List Number: 1
Creator: Oropeza, Salvador

List Source: Eurofins TestAmerica, Sacramento

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	1600528/1656201
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.	False	Analyses listed on COC; individual samples not designated for specific analyses
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	