

## ANALYTICAL REPORT

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

Laboratory Job ID: 320-76069-1  
Client Project/Site: PFAS Testing

**For:**

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

Attn: Ty Fadness



*Authorized for release by:  
7/14/2021 11:28:33 AM*

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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



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# Definitions/Glossary

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

Job ID: 320-76069-1

## Qualifiers

### LCMS

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

## Glossary

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

# Case Narrative

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

Job ID: 320-76069-1

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**Job ID: 320-76069-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

## Narrative

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### Job Narrative 320-76069-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/13/2021 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 0.4° C.

#### LCMS

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

#### Organic Prep

Method 3535: The following samples were preserved with trizma: Entry Point Line 2 (320-76069-1), Entry Point Line 2 DUP (320-76069-2) and Entry Point Line 2 FB (320-76069-3). Thus, the MB, LCS and LCSD also contain trizma. 3535\_PFC Aqueous preparation batch 320-506141

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-506141. 3535\_PFC Aqueous

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: 320-76069-1

## Client Sample ID: Entry Point Line 2

Lab Sample ID: 320-76069-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.6	J	4.7	2.2	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.37	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.90	J	1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.25	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.3	J	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.9	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		1.9	0.51	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: Entry Point Line 2 DUP

Lab Sample ID: 320-76069-2

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.8	J	4.6	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.63	J	1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.91	J	1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.8		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.4	J	1.8	0.49	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: Entry Point Line 2 FB

Lab Sample ID: 320-76069-3

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 320-76069-1

**Client Sample ID: Entry Point Line 2**

**Lab Sample ID: 320-76069-1**

Date Collected: 07/12/21 08:45

Matrix: Water

Date Received: 07/13/21 09:45

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>3.6</b>	<b>J</b>	4.7	2.2	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluoropentanoic acid (PFPeA)	<0.46		1.9	0.46	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>1.1</b>	<b>J</b>	1.9	0.54	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.37</b>	<b>J</b>	1.9	0.23	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.90</b>	<b>J</b>	1.9	0.79	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>0.25</b>	<b>J</b>	1.9	0.25	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorodecanoic acid (PFDA)	<0.29		1.9	0.29	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.9	1.0	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorododecanoic acid (PFDoA)	<0.51		1.9	0.51	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.9	1.2	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorotetradecanoic acid (PFTeA)	<0.68		1.9	0.68	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.83		1.9	0.83	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.88		1.9	0.88	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>2.0</b>		1.9	0.19	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluoropentanesulfonic acid (PFPeS)</b>	<b>1.3</b>	<b>J</b>	1.9	0.28	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>3.6</b>		1.9	0.53	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.18		1.9	0.18	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.0</b>		1.9	0.51	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorononanesulfonic acid (PFNS)	<0.35		1.9	0.35	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorodecanesulfonic acid (PFDS)	<0.30		1.9	0.30	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorododecanesulfonic acid (PFDoS)	<0.91		1.9	0.91	ng/L		07/13/21 11:34	07/13/21 17:44	1
Perfluorooctanesulfonamide (FOSA)	<0.92		1.9	0.92	ng/L		07/13/21 11:34	07/13/21 17:44	1
NEtFOSA	<0.81		1.9	0.81	ng/L		07/13/21 11:34	07/13/21 17:44	1
NMeFOSA	<0.40		1.9	0.40	ng/L		07/13/21 11:34	07/13/21 17:44	1
NMeFOSAA	<1.1		4.7	1.1	ng/L		07/13/21 11:34	07/13/21 17:44	1
NEtFOSAA	<1.2		4.7	1.2	ng/L		07/13/21 11:34	07/13/21 17:44	1
NMeFOSE	<1.3		3.7	1.3	ng/L		07/13/21 11:34	07/13/21 17:44	1
NEtFOSE	<0.79		1.9	0.79	ng/L		07/13/21 11:34	07/13/21 17:44	1
4:2 FTS	<0.22		1.9	0.22	ng/L		07/13/21 11:34	07/13/21 17:44	1
6:2 FTS	<2.3		4.7	2.3	ng/L		07/13/21 11:34	07/13/21 17:44	1
8:2 FTS	<0.43		1.9	0.43	ng/L		07/13/21 11:34	07/13/21 17:44	1
10:2 FTS	<0.63		1.9	0.63	ng/L		07/13/21 11:34	07/13/21 17:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.37		1.9	0.37	ng/L		07/13/21 11:34	07/13/21 17:44	1
HFPO-DA (GenX)	<1.4		3.7	1.4	ng/L		07/13/21 11:34	07/13/21 17:44	1
9Cl-PF3ONS	<0.22		1.9	0.22	ng/L		07/13/21 11:34	07/13/21 17:44	1
11Cl-PF3OUdS	<0.30		1.9	0.30	ng/L		07/13/21 11:34	07/13/21 17:44	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	56		25 - 150				07/13/21 11:34	07/13/21 17:44	1
13C5 PFPeA	70		25 - 150				07/13/21 11:34	07/13/21 17:44	1
13C2 PFHxA	72		25 - 150				07/13/21 11:34	07/13/21 17:44	1
13C4 PFHpA	75		25 - 150				07/13/21 11:34	07/13/21 17:44	1
13C4 PFOA	74		25 - 150				07/13/21 11:34	07/13/21 17:44	1

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# Client Sample Results

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

Job ID: 320-76069-1

**Client Sample ID: Entry Point Line 2**

**Lab Sample ID: 320-76069-1**

Date Collected: 07/12/21 08:45

Matrix: Water

Date Received: 07/13/21 09:45

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	79		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C2 PFDA	77		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C2 PFUnA	77		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C2 PFDoA	78		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C2 PFTeDA	75		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C2 PFHxDA	80		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C3 PFBS	85		25 - 150	07/13/21 11:34	07/13/21 17:44	1
18O2 PFHxS	75		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C4 PFOS	78		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C8 FOSA	76		10 - 150	07/13/21 11:34	07/13/21 17:44	1
d3-NMeFOSAA	66		25 - 150	07/13/21 11:34	07/13/21 17:44	1
d5-NEtFOSAA	69		25 - 150	07/13/21 11:34	07/13/21 17:44	1
d-N-MeFOSA-M	65		10 - 150	07/13/21 11:34	07/13/21 17:44	1
d-N-EtFOSA-M	62		10 - 150	07/13/21 11:34	07/13/21 17:44	1
d7-N-MeFOSE-M	60		10 - 150	07/13/21 11:34	07/13/21 17:44	1
d9-N-EtFOSE-M	62		10 - 150	07/13/21 11:34	07/13/21 17:44	1
M2-4:2 FTS	90		25 - 150	07/13/21 11:34	07/13/21 17:44	1
M2-6:2 FTS	87		25 - 150	07/13/21 11:34	07/13/21 17:44	1
M2-8:2 FTS	83		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C3 HFPO-DA	74		25 - 150	07/13/21 11:34	07/13/21 17:44	1
13C2 10:2 FTS	87		25 - 150	07/13/21 11:34	07/13/21 17:44	1

# Client Sample Results

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

Job ID: 320-76069-1

**Client Sample ID: Entry Point Line 2 DUP**

**Lab Sample ID: 320-76069-2**

Date Collected: 07/12/21 08:47

Matrix: Water

Date Received: 07/13/21 09:45

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

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.8	J	4.6	2.2	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluoropentanoic acid (PFPeA)	0.63	J	1.8	0.45	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.8	0.53	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorooctanoic acid (PFOA)	0.91	J	1.8	0.77	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.81		1.8	0.81	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.86		1.8	0.86	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorobutanesulfonic acid (PFBS)	1.8		1.8	0.18	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluoropentanesulfonic acid (PFPeS)	1.2	J	1.8	0.27	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorohexanesulfonic acid (PFHxS)	3.8		1.8	0.52	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorooctanesulfonic acid (PFOS)	1.4	J	1.8	0.49	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		07/13/21 11:34	07/14/21 07:05	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		07/13/21 11:34	07/14/21 07:05	1
NEtFOSA	<0.79		1.8	0.79	ng/L		07/13/21 11:34	07/14/21 07:05	1
NMeFOSA	<0.39		1.8	0.39	ng/L		07/13/21 11:34	07/14/21 07:05	1
NMeFOSAA	<1.1		4.6	1.1	ng/L		07/13/21 11:34	07/14/21 07:05	1
NEtFOSAA	<1.2		4.6	1.2	ng/L		07/13/21 11:34	07/14/21 07:05	1
NMeFOSE	<1.3		3.6	1.3	ng/L		07/13/21 11:34	07/14/21 07:05	1
NEtFOSE	<0.77		1.8	0.77	ng/L		07/13/21 11:34	07/14/21 07:05	1
4:2 FTS	<0.22		1.8	0.22	ng/L		07/13/21 11:34	07/14/21 07:05	1
6:2 FTS	<2.3		4.6	2.3	ng/L		07/13/21 11:34	07/14/21 07:05	1
8:2 FTS	<0.42		1.8	0.42	ng/L		07/13/21 11:34	07/14/21 07:05	1
10:2 FTS	<0.61		1.8	0.61	ng/L		07/13/21 11:34	07/14/21 07:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		07/13/21 11:34	07/14/21 07:05	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		07/13/21 11:34	07/14/21 07:05	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		07/13/21 11:34	07/14/21 07:05	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		07/13/21 11:34	07/14/21 07:05	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFBA	79		25 - 150				07/13/21 11:34	07/14/21 07:05	1
13C5 PFPeA	51		25 - 150				07/13/21 11:34	07/14/21 07:05	1
13C2 PFHxA	94		25 - 150				07/13/21 11:34	07/14/21 07:05	1
13C4 PFHpA	79		25 - 150				07/13/21 11:34	07/14/21 07:05	1
13C4 PFOA	98		25 - 150				07/13/21 11:34	07/14/21 07:05	1

Eurofins TestAmerica, Sacramento



# Client Sample Results

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

Job ID: 320-76069-1

**Client Sample ID: Entry Point Line 2 DUP**

**Lab Sample ID: 320-76069-2**

Date Collected: 07/12/21 08:47

Matrix: Water

Date Received: 07/13/21 09:45

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C5 PFNA	96		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C2 PFDA	116		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C2 PFUnA	104		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C2 PFDoA	108		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C2 PFTeDA	116		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C2 PFHxDA	143		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C3 PFBS	89		25 - 150	07/13/21 11:34	07/14/21 07:05	1
18O2 PFHxS	87		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C4 PFOS	109		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C8 FOSA	108		10 - 150	07/13/21 11:34	07/14/21 07:05	1
d3-NMeFOSAA	100		25 - 150	07/13/21 11:34	07/14/21 07:05	1
d5-NEtFOSAA	104		25 - 150	07/13/21 11:34	07/14/21 07:05	1
d-N-MeFOSA-M	96		10 - 150	07/13/21 11:34	07/14/21 07:05	1
d-N-EtFOSA-M	97		10 - 150	07/13/21 11:34	07/14/21 07:05	1
d7-N-MeFOSE-M	86		10 - 150	07/13/21 11:34	07/14/21 07:05	1
d9-N-EtFOSE-M	96		10 - 150	07/13/21 11:34	07/14/21 07:05	1
M2-4:2 FTS	113		25 - 150	07/13/21 11:34	07/14/21 07:05	1
M2-6:2 FTS	102		25 - 150	07/13/21 11:34	07/14/21 07:05	1
M2-8:2 FTS	146		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C3 HFPO-DA	89		25 - 150	07/13/21 11:34	07/14/21 07:05	1
13C2 10:2 FTS	129		25 - 150	07/13/21 11:34	07/14/21 07:05	1

# Client Sample Results

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

Job ID: 320-76069-1

**Client Sample ID: Entry Point Line 2 FB**

**Lab Sample ID: 320-76069-3**

Date Collected: 07/12/21 08:49

Matrix: Water

Date Received: 07/13/21 09:45

**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		07/13/21 11:34	07/14/21 07:14	1
Perfluoropentanoic acid (PFPeA)	<0.43		1.7	0.43	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorohexanoic acid (PFHxA)	<0.51		1.7	0.51	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.7	0.22	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorooctanoic acid (PFOA)	<0.74		1.7	0.74	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorononanoic acid (PFNA)	<0.24		1.7	0.24	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorodecanoic acid (PFDA)	<0.27		1.7	0.27	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluoroundecanoic acid (PFUnA)	<0.96		1.7	0.96	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorododecanoic acid (PFDoA)	<0.48		1.7	0.48	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorotridecanoic acid (PFTTrDA)	<1.1		1.7	1.1	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorotetradecanoic acid (PFTeA)	<0.64		1.7	0.64	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.78		1.7	0.78	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.82		1.7	0.82	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorobutanesulfonic acid (PFBS)	<0.17		1.7	0.17	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluoropentanesulfonic acid (PFPeS)	<0.26		1.7	0.26	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorohexanesulfonic acid (PFHxS)	<0.50		1.7	0.50	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.7	0.17	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorooctanesulfonic acid (PFOS)	<0.47		1.7	0.47	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorononanesulfonic acid (PFNS)	<0.32		1.7	0.32	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorodecanesulfonic acid (PFDS)	<0.28		1.7	0.28	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorododecanesulfonic acid (PFDoS)	<0.85		1.7	0.85	ng/L		07/13/21 11:34	07/14/21 07:14	1
Perfluorooctanesulfonamide (FOSA)	<0.85		1.7	0.85	ng/L		07/13/21 11:34	07/14/21 07:14	1
NEtFOSA	<0.76		1.7	0.76	ng/L		07/13/21 11:34	07/14/21 07:14	1
NMeFOSA	<0.37		1.7	0.37	ng/L		07/13/21 11:34	07/14/21 07:14	1
NMeFOSAA	<1.0		4.4	1.0	ng/L		07/13/21 11:34	07/14/21 07:14	1
NEtFOSAA	<1.1		4.4	1.1	ng/L		07/13/21 11:34	07/14/21 07:14	1
NMeFOSE	<1.2		3.5	1.2	ng/L		07/13/21 11:34	07/14/21 07:14	1
NEtFOSE	<0.74		1.7	0.74	ng/L		07/13/21 11:34	07/14/21 07:14	1
4:2 FTS	<0.21		1.7	0.21	ng/L		07/13/21 11:34	07/14/21 07:14	1
6:2 FTS	<2.2		4.4	2.2	ng/L		07/13/21 11:34	07/14/21 07:14	1
8:2 FTS	<0.40		1.7	0.40	ng/L		07/13/21 11:34	07/14/21 07:14	1
10:2 FTS	<0.58		1.7	0.58	ng/L		07/13/21 11:34	07/14/21 07:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.35		1.7	0.35	ng/L		07/13/21 11:34	07/14/21 07:14	1
HFPO-DA (GenX)	<1.3		3.5	1.3	ng/L		07/13/21 11:34	07/14/21 07:14	1
9Cl-PF3ONS	<0.21		1.7	0.21	ng/L		07/13/21 11:34	07/14/21 07:14	1
11Cl-PF3OUdS	<0.28		1.7	0.28	ng/L		07/13/21 11:34	07/14/21 07:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150				07/13/21 11:34	07/14/21 07:14	1
13C5 PFPeA	86		25 - 150				07/13/21 11:34	07/14/21 07:14	1
13C2 PFHxA	101		25 - 150				07/13/21 11:34	07/14/21 07:14	1
13C4 PFHpA	99		25 - 150				07/13/21 11:34	07/14/21 07:14	1
13C4 PFOA	95		25 - 150				07/13/21 11:34	07/14/21 07:14	1
13C5 PFNA	99		25 - 150				07/13/21 11:34	07/14/21 07:14	1
13C2 PFDA	98		25 - 150				07/13/21 11:34	07/14/21 07:14	1
13C2 PFUnA	101		25 - 150				07/13/21 11:34	07/14/21 07:14	1

Eurofins TestAmerica, Sacramento

# Client Sample Results

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

Job ID: 320-76069-1

**Client Sample ID: Entry Point Line 2 FB**

**Lab Sample ID: 320-76069-3**

**Date Collected: 07/12/21 08:49**

**Matrix: Water**

**Date Received: 07/13/21 09:45**

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	98		25 - 150	07/13/21 11:34	07/14/21 07:14	1
13C2 PFTeDA	102		25 - 150	07/13/21 11:34	07/14/21 07:14	1
13C2 PFHxDA	109		25 - 150	07/13/21 11:34	07/14/21 07:14	1
13C3 PFBS	104		25 - 150	07/13/21 11:34	07/14/21 07:14	1
18O2 PFHxS	92		25 - 150	07/13/21 11:34	07/14/21 07:14	1
13C4 PFOS	96		25 - 150	07/13/21 11:34	07/14/21 07:14	1
13C8 FOSA	100		10 - 150	07/13/21 11:34	07/14/21 07:14	1
d3-NMeFOSAA	98		25 - 150	07/13/21 11:34	07/14/21 07:14	1
d5-NEtFOSAA	98		25 - 150	07/13/21 11:34	07/14/21 07:14	1
d-N-MeFOSA-M	87		10 - 150	07/13/21 11:34	07/14/21 07:14	1
d-N-EtFOSA-M	84		10 - 150	07/13/21 11:34	07/14/21 07:14	1
d7-N-MeFOSE-M	92		10 - 150	07/13/21 11:34	07/14/21 07:14	1
d9-N-EtFOSE-M	95		10 - 150	07/13/21 11:34	07/14/21 07:14	1
M2-4:2 FTS	92		25 - 150	07/13/21 11:34	07/14/21 07:14	1
M2-6:2 FTS	99		25 - 150	07/13/21 11:34	07/14/21 07:14	1
M2-8:2 FTS	106		25 - 150	07/13/21 11:34	07/14/21 07:14	1
13C3 HFPO-DA	99		25 - 150	07/13/21 11:34	07/14/21 07:14	1
13C2 10:2 FTS	107		25 - 150	07/13/21 11:34	07/14/21 07:14	1

# Isotope Dilution Summary

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

Job ID: 320-76069-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
320-76069-1	Entry Point Line 2	56	70	72	75	74	79	77	77
320-76069-2	Entry Point Line 2 DUP	79	51	94	79	98	96	116	104
320-76069-3	Entry Point Line 2 FB	94	86	101	99	95	99	98	101
LCS 320-506141/2-A	Lab Control Sample	79	76	75	79	78	80	79	77
LCSD 320-506141/3-A	Lab Control Sample Dup	79	78	77	81	77	79	78	83
MB 320-506141/1-A	Method Blank	75	76	72	78	75	81	79	76

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFS (25-150)
320-76069-1	Entry Point Line 2	78	75	80	85	75	78	76	66
320-76069-2	Entry Point Line 2 DUP	108	116	143	89	87	109	108	100
320-76069-3	Entry Point Line 2 FB	98	102	109	104	92	96	100	98
LCS 320-506141/2-A	Lab Control Sample	80	74	76	85	77	82	76	71
LCSD 320-506141/3-A	Lab Control Sample Dup	82	75	80	88	80	80	78	71
MB 320-506141/1-A	Method Blank	76	74	79	84	75	75	75	69

### 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)
320-76069-1	Entry Point Line 2	69	65	62	60	62	90	87	83
320-76069-2	Entry Point Line 2 DUP	104	96	97	86	96	113	102	146
320-76069-3	Entry Point Line 2 FB	98	87	84	92	95	92	99	106
LCS 320-506141/2-A	Lab Control Sample	74	67	67	63	71	73	79	84
LCSD 320-506141/3-A	Lab Control Sample Dup	71	71	70	65	71	76	81	84
MB 320-506141/1-A	Method Blank	72	66	64	54	62	75	80	75

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
320-76069-1	Entry Point Line 2	74	87
320-76069-2	Entry Point Line 2 DUP	89	129
320-76069-3	Entry Point Line 2 FB	99	107
LCS 320-506141/2-A	Lab Control Sample	78	86
LCSD 320-506141/3-A	Lab Control Sample Dup	80	90
MB 320-506141/1-A	Method Blank	76	85

#### 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
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- PFHxDA = 13C2 PFHxDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS

# Isotope Dilution Summary

Job ID: 320-76069-1

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

PFOSA = 13C8 FOSA  
d3NMFOS = d3-NMeFOSAA  
d5NEFOS = d5-NEtFOSAA  
dMeFOSA = d-N-MeFOSA-M  
dEtFOSA = d-N-EtFOSA-M  
NMFm = d7-N-MeFOSE-M  
NEFM = d9-N-EtFOSE-M  
M242FTS = M2-4:2 FTS  
M262FTS = M2-6:2 FTS  
M282FTS = M2-8:2 FTS  
HFPODA = 13C3 HFPO-DA  
M102FTS = 13C2 10:2 FTS

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# QC Sample Results

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

Job ID: 320-76069-1

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

**Lab Sample ID: MB 320-506141/1-A**  
**Matrix: Water**  
**Analysis Batch: 506240**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 506141**

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/13/21 11:34	07/13/21 17:16	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/13/21 11:34	07/13/21 17:16	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/13/21 11:34	07/13/21 17:16	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/13/21 11:34	07/13/21 17:16	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/13/21 11:34	07/13/21 17:16	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/13/21 11:34	07/13/21 17:16	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/13/21 11:34	07/13/21 17:16	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/13/21 11:34	07/13/21 17:16	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/13/21 11:34	07/13/21 17:16	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/13/21 11:34	07/13/21 17:16	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/13/21 11:34	07/13/21 17:16	1
10:2 FTS	<0.67		2.0	0.67	ng/L		07/13/21 11:34	07/13/21 17:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/13/21 11:34	07/13/21 17:16	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/13/21 11:34	07/13/21 17:16	1
9Cl-PF3ONS	<0.24		2.0	0.24	ng/L		07/13/21 11:34	07/13/21 17:16	1
11Cl-PF3OUdS	<0.32		2.0	0.32	ng/L		07/13/21 11:34	07/13/21 17:16	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	75		25 - 150	07/13/21 11:34	07/13/21 17:16	1			
13C5 PFPeA	76		25 - 150	07/13/21 11:34	07/13/21 17:16	1			
13C2 PFHxA	72		25 - 150	07/13/21 11:34	07/13/21 17:16	1			
13C4 PFHpA	78		25 - 150	07/13/21 11:34	07/13/21 17:16	1			
13C4 PFOA	75		25 - 150	07/13/21 11:34	07/13/21 17:16	1			
13C5 PFNA	81		25 - 150	07/13/21 11:34	07/13/21 17:16	1			

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-76069-1

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

**Lab Sample ID: MB 320-506141/1-A**  
**Matrix: Water**  
**Analysis Batch: 506240**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 506141**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	79		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C2 PFUnA	76		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C2 PFDoA	76		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C2 PFTeDA	74		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C2 PFHxDA	79		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C3 PFBS	84		25 - 150	07/13/21 11:34	07/13/21 17:16	1
18O2 PFHxS	75		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C4 PFOS	75		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C8 FOSA	75		10 - 150	07/13/21 11:34	07/13/21 17:16	1
d3-NMeFOSAA	69		25 - 150	07/13/21 11:34	07/13/21 17:16	1
d5-NEtFOSAA	72		25 - 150	07/13/21 11:34	07/13/21 17:16	1
d-N-MeFOSA-M	66		10 - 150	07/13/21 11:34	07/13/21 17:16	1
d-N-EtFOSA-M	64		10 - 150	07/13/21 11:34	07/13/21 17:16	1
d7-N-MeFOSE-M	54		10 - 150	07/13/21 11:34	07/13/21 17:16	1
d9-N-EtFOSE-M	62		10 - 150	07/13/21 11:34	07/13/21 17:16	1
M2-4:2 FTS	75		25 - 150	07/13/21 11:34	07/13/21 17:16	1
M2-6:2 FTS	80		25 - 150	07/13/21 11:34	07/13/21 17:16	1
M2-8:2 FTS	75		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C3 HFPO-DA	76		25 - 150	07/13/21 11:34	07/13/21 17:16	1
13C2 10:2 FTS	85		25 - 150	07/13/21 11:34	07/13/21 17:16	1

**Lab Sample ID: LCS 320-506141/2-A**  
**Matrix: Water**  
**Analysis Batch: 506240**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506141**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	39.3		ng/L		98	60 - 135
Perfluoropentanoic acid (PFPeA)	40.0	44.0		ng/L		110	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	42.8		ng/L		107	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	42.0		ng/L		105	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	43.1		ng/L		108	60 - 135
Perfluorononanoic acid (PFNA)	40.0	41.0		ng/L		102	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	39.3		ng/L		98	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	45.7		ng/L		114	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	41.4		ng/L		103	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	38.0		ng/L		95	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	44.5		ng/L		111	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	51.1		ng/L		128	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	39.2		ng/L		98	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	34.1		ng/L		96	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	33.6		ng/L		89	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.5		ng/L		103	60 - 135

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-76069-1

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

**Lab Sample ID: LCS 320-506141/2-A**  
**Matrix: Water**  
**Analysis Batch: 506240**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506141**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	37.0		ng/L		97	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	37.0		ng/L		100	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	36.8		ng/L		96	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	37.1		ng/L		96	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	37.6		ng/L		97	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	40.8		ng/L		102	60 - 135
NEtFOSA	40.0	41.1		ng/L		103	60 - 135
NMeFOSA	40.0	41.4		ng/L		103	60 - 135
NMeFOSAA	40.0	39.9		ng/L		100	60 - 135
NEtFOSAA	40.0	43.9		ng/L		110	60 - 135
NMeFOSE	40.0	46.2		ng/L		115	60 - 135
NEtFOSE	40.0	42.0		ng/L		105	60 - 135
4:2 FTS	37.4	33.1		ng/L		89	60 - 135
6:2 FTS	37.9	39.3		ng/L		104	60 - 135
8:2 FTS	38.3	41.9		ng/L		109	60 - 135
10:2 FTS	38.6	32.8		ng/L		85	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.0		ng/L		98	60 - 135
HFPO-DA (GenX)	40.0	43.3		ng/L		108	60 - 135
9CI-PF3ONS	37.3	37.0		ng/L		99	60 - 135
11CI-PF3OUdS	37.7	32.4		ng/L		86	60 - 135

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	79		25 - 150
13C5 PFPeA	76		25 - 150
13C2 PFHxA	75		25 - 150
13C4 PFHpA	79		25 - 150
13C4 PFOA	78		25 - 150
13C5 PFNA	80		25 - 150
13C2 PFDA	79		25 - 150
13C2 PFUnA	77		25 - 150
13C2 PFDoA	80		25 - 150
13C2 PFTeDA	74		25 - 150
13C2 PFHxDA	76		25 - 150
13C3 PFBS	85		25 - 150
18O2 PFHxS	77		25 - 150
13C4 PFOS	82		25 - 150
13C8 FOSA	76		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	74		25 - 150
d-N-MeFOSA-M	67		10 - 150
d-N-EtFOSA-M	67		10 - 150
d7-N-MeFOSE-M	63		10 - 150
d9-N-EtFOSE-M	71		10 - 150

Eurofins TestAmerica, Sacramento



# QC Sample Results

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

Job ID: 320-76069-1

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

**Lab Sample ID: LCS 320-506141/2-A**  
**Matrix: Water**  
**Analysis Batch: 506240**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506141**

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-4:2 FTS	73		25 - 150
M2-6:2 FTS	79		25 - 150
M2-8:2 FTS	84		25 - 150
13C3 HFPO-DA	78		25 - 150
13C2 10:2 FTS	86		25 - 150

**Lab Sample ID: LCSD 320-506141/3-A**  
**Matrix: Water**  
**Analysis Batch: 506240**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 506141**

<i>Analyte</i>	<i>Spike</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>RPD</i>	<i>Limit</i>
	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>			
Perfluorobutanoic acid (PFBA)	40.0	39.7		ng/L		99	60 - 135	1		30
Perfluoropentanoic acid (PFPeA)	40.0	42.2		ng/L		106	60 - 135	4		30
Perfluorohexanoic acid (PFHxA)	40.0	40.9		ng/L		102	60 - 135	4		30
Perfluoroheptanoic acid (PFHpA)	40.0	40.3		ng/L		101	60 - 135	4		30
Perfluorooctanoic acid (PFOA)	40.0	44.3		ng/L		111	60 - 135	3		30
Perfluorononanoic acid (PFNA)	40.0	42.3		ng/L		106	60 - 135	3		30
Perfluorodecanoic acid (PFDA)	40.0	42.4		ng/L		106	60 - 135	7		30
Perfluoroundecanoic acid (PFUnA)	40.0	41.1		ng/L		103	60 - 135	11		30
Perfluorododecanoic acid (PFDoA)	40.0	39.8		ng/L		99	60 - 135	4		30
Perfluorotridecanoic acid (PFTrDA)	40.0	40.1		ng/L		100	60 - 135	5		30
Perfluorotetradecanoic acid (PFTeA)	40.0	37.9		ng/L		95	60 - 135	16		30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	40.5		ng/L		101	60 - 135	23		30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	31.2		ng/L		78	60 - 135	23		30
Perfluorobutanesulfonic acid (PFBS)	35.4	33.9		ng/L		96	60 - 135	1		30
Perfluoropentanesulfonic acid (PFPeS)	37.5	34.7		ng/L		93	60 - 135	3		30
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.9		ng/L		101	60 - 135	2		30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.1		ng/L		105	60 - 135	8		30
Perfluorooctanesulfonic acid (PFOS)	37.1	39.6		ng/L		107	60 - 135	7		30
Perfluorononanesulfonic acid (PFNS)	38.4	39.4		ng/L		103	60 - 135	7		30
Perfluorodecanesulfonic acid (PFDS)	38.6	38.9		ng/L		101	60 - 135	5		30
Perfluorododecanesulfonic acid (PFDoS)	38.7	40.6		ng/L		105	60 - 135	8		30
Perfluorooctanesulfonamide (FOSA)	40.0	40.8		ng/L		102	60 - 135	0		30
NEtFOSA	40.0	42.6		ng/L		106	60 - 135	4		30
NMeFOSA	40.0	41.0		ng/L		103	60 - 135	1		30
NMeFOSAA	40.0	42.6		ng/L		106	60 - 135	6		30
NEtFOSAA	40.0	44.3		ng/L		111	60 - 135	1		30
NMeFOSE	40.0	43.9		ng/L		110	60 - 135	5		30

Eurofins TestAmerica, Sacramento

# QC Sample Results

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

Job ID: 320-76069-1

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

**Lab Sample ID: LCSD 320-506141/3-A**  
**Matrix: Water**  
**Analysis Batch: 506240**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 506141**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NETFOSE	40.0	41.6		ng/L		104	60 - 135	1	30
4:2 FTS	37.4	34.1		ng/L		91	60 - 135	3	30
6:2 FTS	37.9	39.1		ng/L		103	60 - 135	1	30
8:2 FTS	38.3	41.3		ng/L		108	60 - 135	1	30
10:2 FTS	38.6	32.0		ng/L		83	60 - 135	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	37.5		ng/L		100	60 - 135	1	30
HFPO-DA (GenX)	40.0	42.1		ng/L		105	60 - 135	3	30
9CI-PF3ONS	37.3	39.3		ng/L		105	60 - 135	6	30
11CI-PF3OUdS	37.7	34.7		ng/L		92	60 - 135	7	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	79		25 - 150
13C5 PFPeA	78		25 - 150
13C2 PFHxA	77		25 - 150
13C4 PFHpA	81		25 - 150
13C4 PFOA	77		25 - 150
13C5 PFNA	79		25 - 150
13C2 PFDA	78		25 - 150
13C2 PFUnA	83		25 - 150
13C2 PFDoA	82		25 - 150
13C2 PFTeDA	75		25 - 150
13C2 PFHxDA	80		25 - 150
13C3 PFBS	88		25 - 150
18O2 PFHxS	80		25 - 150
13C4 PFOS	80		25 - 150
13C8 FOSA	78		10 - 150
d3-NMeFOSAA	71		25 - 150
d5-NEtFOSAA	71		25 - 150
d-N-MeFOSA-M	71		10 - 150
d-N-EtFOSA-M	70		10 - 150
d7-N-MeFOSE-M	65		10 - 150
d9-N-EtFOSE-M	71		10 - 150
M2-4:2 FTS	76		25 - 150
M2-6:2 FTS	81		25 - 150
M2-8:2 FTS	84		25 - 150
13C3 HFPO-DA	80		25 - 150
13C2 10:2 FTS	90		25 - 150

# QC Association Summary

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

Job ID: 320-76069-1

## LCMS

### Prep Batch: 506141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76069-1	Entry Point Line 2	Total/NA	Water	3535	
320-76069-2	Entry Point Line 2 DUP	Total/NA	Water	3535	
320-76069-3	Entry Point Line 2 FB	Total/NA	Water	3535	
MB 320-506141/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-506141/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-506141/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 506240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76069-1	Entry Point Line 2	Total/NA	Water	537 (modified)	506141
MB 320-506141/1-A	Method Blank	Total/NA	Water	537 (modified)	506141
LCS 320-506141/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	506141
LCSD 320-506141/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	506141

### Analysis Batch: 506431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76069-2	Entry Point Line 2 DUP	Total/NA	Water	537 (modified)	506141
320-76069-3	Entry Point Line 2 FB	Total/NA	Water	537 (modified)	506141

# Lab Chronicle

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

Job ID: 320-76069-1

## Client Sample ID: Entry Point Line 2

Lab Sample ID: 320-76069-1

Date Collected: 07/12/21 08:45

Matrix: Water

Date Received: 07/13/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			267.3 mL	10.0 mL	506141	07/13/21 11:34	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			506240	07/13/21 17:44	K1S	TAL SAC

## Client Sample ID: Entry Point Line 2 DUP

Lab Sample ID: 320-76069-2

Date Collected: 07/12/21 08:47

Matrix: Water

Date Received: 07/13/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			274.7 mL	10.0 mL	506141	07/13/21 11:34	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			506431	07/14/21 07:05	JY1	TAL SAC

## Client Sample ID: Entry Point Line 2 FB

Lab Sample ID: 320-76069-3

Date Collected: 07/12/21 08:49

Matrix: Water

Date Received: 07/13/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286.8 mL	10.0 mL	506141	07/13/21 11:34	LN	TAL SAC
Total/NA	Analysis	537 (modified)		1			506431	07/14/21 07:14	JY1	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: 320-76069-1

## 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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Method Summary

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

Job ID: 320-76069-1

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: 320-76069-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-76069-1	Entry Point Line 2	Water	07/12/21 08:45	07/13/21 09:45	
320-76069-2	Entry Point Line 2 DUP	Water	07/12/21 08:47	07/13/21 09:45	
320-76069-3	Entry Point Line 2 FB	Water	07/12/21 08:49	07/13/21 09:45	

1

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## Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 320-76069-1

**Login Number: 76069**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Fredrick, Sandie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1445467
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	