

ANALYTICAL REPORT

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

Laboratory Job ID: 320-76454-1
Client Project/Site: PFAS Testing

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

Attn: Ty Fadness



Authorized for release by:
7/26/2021 9:46:40 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: 320-76454-1

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: 320-76454-1

Job ID: 320-76454-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-76454-1

Comments

No additional comments.

Receipt

The samples were received on 7/20/2021 9:50 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 4.5° C.

LCMS

Method 537 (modified): The initial calibration blank (ICB) associated with initial calibration in analytical batch 320-506184 has a concentration of 0.0338 ng/mL for Perfluorooctadecanoic acid (PFODa), which is greater than 1/2 the reporting limit. The continuing calibration blanks and the associated sample are non-detect for this analyte. Data quality is not impacted by this anomaly. (ICB 320-506184/9)

Method 537 (modified): The "I" qualifier means 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. (CCB 320-509427/15)

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

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with: preparation batch 320-508842. Method Code: 3535_PFC_28D Matrix: Aqueous

Method 3535: The following samples were preserved with trizma: Well 17 (320-76454-1) and Well 17 FB (320-76454-2). Thus, the MB, LCS and LCSD also contain trizma. Method Code: 3535_PFC_28D Matrix: Aqueous preparation batch 320-508842

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: 320-76454-1

Client Sample ID: Well 17

Lab Sample ID: 320-76454-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.5	J	4.5	2.2	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.64	J	1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.6	J	1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.9		1.8	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.2		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.4		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21		1.8	0.52	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.27	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.8		1.8	0.49	ng/L	1		537 (modified)	Total/NA

Client Sample ID: Well 17 FB

Lab Sample ID: 320-76454-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-76454-1

Client Sample ID: Well 17

Lab Sample ID: 320-76454-1

Date Collected: 07/19/21 11:53

Matrix: Water

Date Received: 07/20/21 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.5	J	4.5	2.2	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluoropentanoic acid (PFPeA)	0.64	J	1.8	0.45	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorohexanoic acid (PFHxA)	1.6	J	1.8	0.53	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluoroheptanoic acid (PFHpA)	<0.23		1.8	0.23	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorooctanoic acid (PFOA)	1.9		1.8	0.77	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorononanoic acid (PFNA)	<0.25		1.8	0.25	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluoroundecanoic acid (PFUnA)	<1.0		1.8	1.0	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorododecanoic acid (PFDoA)	<0.50		1.8	0.50	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorotridecanoic acid (PFTrDA)	<1.2		1.8	1.2	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorotetradecanoic acid (PFTeA)	<0.66		1.8	0.66	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.81		1.8	0.81	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.85		1.8	0.85	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorobutanesulfonic acid (PFBS)	3.2		1.8	0.18	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluoropentanesulfonic acid (PFPeS)	2.4		1.8	0.27	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorohexanesulfonic acid (PFHxS)	21		1.8	0.52	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.27	J	1.8	0.17	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorooctanesulfonic acid (PFOS)	7.8		1.8	0.49	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorononanesulfonic acid (PFNS)	<0.34		1.8	0.34	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorododecanesulfonic acid (PFDoS)	<0.88		1.8	0.88	ng/L		07/21/21 12:02	07/23/21 02:56	1
Perfluorooctanesulfonamide (FOSA)	<0.89		1.8	0.89	ng/L		07/21/21 12:02	07/23/21 02:56	1
NEtFOSA	<0.79		1.8	0.79	ng/L		07/21/21 12:02	07/23/21 02:56	1
NMeFOSA	<0.39		1.8	0.39	ng/L		07/21/21 12:02	07/23/21 02:56	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		07/21/21 12:02	07/23/21 02:56	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		07/21/21 12:02	07/23/21 02:56	1
NMeFOSE	<1.3		3.6	1.3	ng/L		07/21/21 12:02	07/23/21 02:56	1
NEtFOSE	<0.77		1.8	0.77	ng/L		07/21/21 12:02	07/23/21 02:56	1
4:2 FTS	<0.22		1.8	0.22	ng/L		07/21/21 12:02	07/23/21 02:56	1
6:2 FTS	<2.3		4.5	2.3	ng/L		07/21/21 12:02	07/23/21 02:56	1
8:2 FTS	<0.42		1.8	0.42	ng/L		07/21/21 12:02	07/23/21 02:56	1
10:2 FTS	<0.61		1.8	0.61	ng/L		07/21/21 12:02	07/23/21 02:56	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		07/21/21 12:02	07/23/21 02:56	1
HFPO-DA (GenX)	<1.4		3.6	1.4	ng/L		07/21/21 12:02	07/23/21 02:56	1
9Cl-PF3ONS	<0.22		1.8	0.22	ng/L		07/21/21 12:02	07/23/21 02:56	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		07/21/21 12:02	07/23/21 02:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150				07/21/21 12:02	07/23/21 02:56	1
13C5 PFPeA	79		25 - 150				07/21/21 12:02	07/23/21 02:56	1
13C2 PFHxA	101		25 - 150				07/21/21 12:02	07/23/21 02:56	1
13C4 PFHpA	93		25 - 150				07/21/21 12:02	07/23/21 02:56	1
13C4 PFOA	99		25 - 150				07/21/21 12:02	07/23/21 02:56	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-76454-1

Client Sample ID: Well 17
Date Collected: 07/19/21 11:53
Date Received: 07/20/21 09:50

Lab Sample ID: 320-76454-1
Matrix: Water

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

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C5 PFNA	96		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C2 PFDA	114		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C2 PFUnA	106		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C2 PFDoA	113		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C2 PFTeDA	103		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C2 PFHxDA	126		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C3 PFBS	109		25 - 150	07/21/21 12:02	07/23/21 02:56	1
18O2 PFHxS	93		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C4 PFOS	117		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C8 FOSA	111		10 - 150	07/21/21 12:02	07/23/21 02:56	1
d3-NMeFOSAA	116		25 - 150	07/21/21 12:02	07/23/21 02:56	1
d5-NEtFOSAA	118		25 - 150	07/21/21 12:02	07/23/21 02:56	1
d-N-MeFOSA-M	89		10 - 150	07/21/21 12:02	07/23/21 02:56	1
d-N-EtFOSA-M	84		10 - 150	07/21/21 12:02	07/23/21 02:56	1
d7-N-MeFOSE-M	91		10 - 150	07/21/21 12:02	07/23/21 02:56	1
d9-N-EtFOSE-M	86		10 - 150	07/21/21 12:02	07/23/21 02:56	1
M2-4:2 FTS	77		25 - 150	07/21/21 12:02	07/23/21 02:56	1
M2-6:2 FTS	99		25 - 150	07/21/21 12:02	07/23/21 02:56	1
M2-8:2 FTS	120		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C3 HFPO-DA	91		25 - 150	07/21/21 12:02	07/23/21 02:56	1
13C2 10:2 FTS	126		25 - 150	07/21/21 12:02	07/23/21 02:56	1

Client Sample Results

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

Job ID: 320-76454-1

Client Sample ID: Well 17 FB

Lab Sample ID: 320-76454-2

Date Collected: 07/19/21 11:54

Matrix: Water

Date Received: 07/20/21 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<2.1		4.5	2.1	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluoropentanoic acid (PFPeA)	<0.44		1.8	0.44	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorohexanoic acid (PFHxA)	<0.52		1.8	0.52	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluoroheptanoic acid (PFHpA)	<0.22		1.8	0.22	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorooctanoic acid (PFOA)	<0.76		1.8	0.76	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorononanoic acid (PFNA)	<0.24		1.8	0.24	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorodecanoic acid (PFDA)	<0.28		1.8	0.28	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluoroundecanoic acid (PFUnA)	<0.98		1.8	0.98	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorododecanoic acid (PFDoA)	<0.49		1.8	0.49	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorotridecanoic acid (PFTTrDA)	<1.2		1.8	1.2	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorotetradecanoic acid (PFTeA)	<0.65		1.8	0.65	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.80		1.8	0.80	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.84		1.8	0.84	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorobutanesulfonic acid (PFBS)	<0.18		1.8	0.18	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluoropentanesulfonic acid (PFPeS)	<0.27		1.8	0.27	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorohexanesulfonic acid (PFHxS)	<0.51		1.8	0.51	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.17		1.8	0.17	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorooctanesulfonic acid (PFOS)	<0.48		1.8	0.48	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorononanesulfonic acid (PFNS)	<0.33		1.8	0.33	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorodecanesulfonic acid (PFDS)	<0.29		1.8	0.29	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorododecanesulfonic acid (PFDoS)	<0.87		1.8	0.87	ng/L		07/21/21 12:02	07/23/21 03:05	1
Perfluorooctanesulfonamide (FOSA)	<0.88		1.8	0.88	ng/L		07/21/21 12:02	07/23/21 03:05	1
NEtFOSA	<0.78		1.8	0.78	ng/L		07/21/21 12:02	07/23/21 03:05	1
NMeFOSA	<0.38		1.8	0.38	ng/L		07/21/21 12:02	07/23/21 03:05	1
NMeFOSAA	<1.1		4.5	1.1	ng/L		07/21/21 12:02	07/23/21 03:05	1
NEtFOSAA	<1.2		4.5	1.2	ng/L		07/21/21 12:02	07/23/21 03:05	1
NMeFOSE	<1.3		3.6	1.3	ng/L		07/21/21 12:02	07/23/21 03:05	1
NEtFOSE	<0.76		1.8	0.76	ng/L		07/21/21 12:02	07/23/21 03:05	1
4:2 FTS	<0.21		1.8	0.21	ng/L		07/21/21 12:02	07/23/21 03:05	1
6:2 FTS	<2.2		4.5	2.2	ng/L		07/21/21 12:02	07/23/21 03:05	1
8:2 FTS	<0.41		1.8	0.41	ng/L		07/21/21 12:02	07/23/21 03:05	1
10:2 FTS	<0.60		1.8	0.60	ng/L		07/21/21 12:02	07/23/21 03:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.36		1.8	0.36	ng/L		07/21/21 12:02	07/23/21 03:05	1
HFPO-DA (GenX)	<1.3		3.6	1.3	ng/L		07/21/21 12:02	07/23/21 03:05	1
9Cl-PF3ONS	<0.21		1.8	0.21	ng/L		07/21/21 12:02	07/23/21 03:05	1
11Cl-PF3OUdS	<0.29		1.8	0.29	ng/L		07/21/21 12:02	07/23/21 03:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C5 PFPeA	92		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C2 PFHxA	100		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C4 PFHpA	91		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C4 PFOA	95		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C5 PFNA	92		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C2 PFDA	99		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C2 PFUnA	97		25 - 150	07/21/21 12:02	07/23/21 03:05	1

Eurofins TestAmerica, Sacramento

Client Sample Results

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

Job ID: 320-76454-1

Client Sample ID: Well 17 FB

Lab Sample ID: 320-76454-2

Date Collected: 07/19/21 11:54

Matrix: Water

Date Received: 07/20/21 09:50

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	97		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C2 PFTeDA	95		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C2 PFHxDA	113		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C3 PFBS	112		25 - 150	07/21/21 12:02	07/23/21 03:05	1
18O2 PFHxS	98		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C4 PFOS	111		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C8 FOSA	97		10 - 150	07/21/21 12:02	07/23/21 03:05	1
d3-NMeFOSAA	100		25 - 150	07/21/21 12:02	07/23/21 03:05	1
d5-NEtFOSAA	99		25 - 150	07/21/21 12:02	07/23/21 03:05	1
d-N-MeFOSA-M	81		10 - 150	07/21/21 12:02	07/23/21 03:05	1
d-N-EtFOSA-M	80		10 - 150	07/21/21 12:02	07/23/21 03:05	1
d7-N-MeFOSE-M	78		10 - 150	07/21/21 12:02	07/23/21 03:05	1
d9-N-EtFOSE-M	79		10 - 150	07/21/21 12:02	07/23/21 03:05	1
M2-4:2 FTS	79		25 - 150	07/21/21 12:02	07/23/21 03:05	1
M2-6:2 FTS	92		25 - 150	07/21/21 12:02	07/23/21 03:05	1
M2-8:2 FTS	107		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C3 HFPO-DA	83		25 - 150	07/21/21 12:02	07/23/21 03:05	1
13C2 10:2 FTS	115		25 - 150	07/21/21 12:02	07/23/21 03:05	1

Isotope Dilution Summary

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

Job ID: 320-76454-1

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)	PFOA (25-150)
320-76454-1	Well 17	93	79	101	93	99	96	114	106
320-76454-2	Well 17 FB	93	92	100	91	95	92	99	97
LCS 320-508842/2-A	Lab Control Sample	100	97	112	101	100	99	105	100
LCSD 320-508842/3-A	Lab Control Sample Dup	98	95	103	97	97	98	106	100
MB 320-508842/1-A	Method Blank	96	87	101	91	97	100	108	101

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	PFHxDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (10-150)	d3NMFOS (25-150)
320-76454-1	Well 17	113	103	126	109	93	117	111	116
320-76454-2	Well 17 FB	97	95	113	112	98	111	97	100
LCS 320-508842/2-A	Lab Control Sample	106	97	104	118	105	114	111	105
LCSD 320-508842/3-A	Lab Control Sample Dup	101	96	106	112	99	110	106	96
MB 320-508842/1-A	Method Blank	108	96	114	112	90	119	108	99

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)
320-76454-1	Well 17	118	89	84	91	86	77	99	120
320-76454-2	Well 17 FB	99	81	80	78	79	79	92	107
LCS 320-508842/2-A	Lab Control Sample	103	94	95	90	84	77	101	106
LCSD 320-508842/3-A	Lab Control Sample Dup	109	88	87	87	82	75	85	110
MB 320-508842/1-A	Method Blank	111	91	80	87	85	84	92	110

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)	M102FTS (25-150)
320-76454-1	Well 17	91	126
320-76454-2	Well 17 FB	83	115
LCS 320-508842/2-A	Lab Control Sample	91	128
LCSD 320-508842/3-A	Lab Control Sample Dup	88	122
MB 320-508842/1-A	Method Blank	97	124

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFOA = 13C2 PFUnA
- PFDaA = 13C2 PFDaA
- PFTDA = 13C2 PFTeDA
- PFHxDA = 13C2 PFHxDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- PFOSA = 13C8 FOSA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- dMeFOSA = d-N-MeFOSA-M

Isotope Dilution Summary

Job ID: 320-76454-1

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

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: 320-76454-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-508842/1-A
Matrix: Water
Analysis Batch: 509427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508842

Analyte	MB	MB	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	<2.4		5.0	2.4	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluoropentanoic acid (PFPeA)	<0.49		2.0	0.49	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorohexanoic acid (PFHxA)	<0.58		2.0	0.58	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluoroheptanoic acid (PFHpA)	<0.25		2.0	0.25	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorooctanoic acid (PFOA)	<0.85		2.0	0.85	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorononanoic acid (PFNA)	<0.27		2.0	0.27	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorodecanoic acid (PFDA)	<0.31		2.0	0.31	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluoroundecanoic acid (PFUnA)	<1.1		2.0	1.1	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorododecanoic acid (PFDoA)	<0.55		2.0	0.55	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorotridecanoic acid (PFTrDA)	<1.3		2.0	1.3	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorotetradecanoic acid (PFTeA)	<0.73		2.0	0.73	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	<0.89		2.0	0.89	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluoro-n-octadecanoic acid (PFODA)	<0.94		2.0	0.94	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		2.0	0.20	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluoropentanesulfonic acid (PFPeS)	<0.30		2.0	0.30	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorohexanesulfonic acid (PFHxS)	<0.57		2.0	0.57	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.19		2.0	0.19	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorooctanesulfonic acid (PFOS)	<0.54		2.0	0.54	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorononanesulfonic acid (PFNS)	<0.37		2.0	0.37	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorodecanesulfonic acid (PFDS)	<0.32		2.0	0.32	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorododecanesulfonic acid (PFDoS)	<0.97		2.0	0.97	ng/L		07/21/21 12:02	07/23/21 02:27	1
Perfluorooctanesulfonamide (FOSA)	<0.98		2.0	0.98	ng/L		07/21/21 12:02	07/23/21 02:27	1
NEtFOSA	<0.87		2.0	0.87	ng/L		07/21/21 12:02	07/23/21 02:27	1
NMeFOSA	<0.43		2.0	0.43	ng/L		07/21/21 12:02	07/23/21 02:27	1
NMeFOSAA	<1.2		5.0	1.2	ng/L		07/21/21 12:02	07/23/21 02:27	1
NEtFOSAA	<1.3		5.0	1.3	ng/L		07/21/21 12:02	07/23/21 02:27	1
NMeFOSE	<1.4		4.0	1.4	ng/L		07/21/21 12:02	07/23/21 02:27	1
NEtFOSE	<0.85		2.0	0.85	ng/L		07/21/21 12:02	07/23/21 02:27	1
4:2 FTS	<0.24		2.0	0.24	ng/L		07/21/21 12:02	07/23/21 02:27	1
6:2 FTS	<2.5		5.0	2.5	ng/L		07/21/21 12:02	07/23/21 02:27	1
8:2 FTS	<0.46		2.0	0.46	ng/L		07/21/21 12:02	07/23/21 02:27	1
10:2 FTS	<0.67		2.0	0.67	ng/L		07/21/21 12:02	07/23/21 02:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0	0.40	ng/L		07/21/21 12:02	07/23/21 02:27	1
HFPO-DA (GenX)	<1.5		4.0	1.5	ng/L		07/21/21 12:02	07/23/21 02:27	1
9CI-PF3ONS	<0.24		2.0	0.24	ng/L		07/21/21 12:02	07/23/21 02:27	1
11CI-PF3OUdS	<0.32		2.0	0.32	ng/L		07/21/21 12:02	07/23/21 02:27	1
Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
13C4 PFBA	96		25 - 150	07/21/21 12:02	07/23/21 02:27	1			
13C5 PFPeA	87		25 - 150	07/21/21 12:02	07/23/21 02:27	1			
13C2 PFHxA	101		25 - 150	07/21/21 12:02	07/23/21 02:27	1			
13C4 PFHpA	91		25 - 150	07/21/21 12:02	07/23/21 02:27	1			
13C4 PFOA	97		25 - 150	07/21/21 12:02	07/23/21 02:27	1			
13C5 PFNA	100		25 - 150	07/21/21 12:02	07/23/21 02:27	1			

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QC Sample Results

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

Job ID: 320-76454-1

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

Lab Sample ID: MB 320-508842/1-A
Matrix: Water
Analysis Batch: 509427

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 508842

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	108		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C2 PFUnA	101		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C2 PFDoA	108		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C2 PFTeDA	96		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C2 PFHxDA	114		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C3 PFBS	112		25 - 150	07/21/21 12:02	07/23/21 02:27	1
18O2 PFHxS	90		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C4 PFOS	119		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C8 FOSA	108		10 - 150	07/21/21 12:02	07/23/21 02:27	1
d3-NMeFOSAA	99		25 - 150	07/21/21 12:02	07/23/21 02:27	1
d5-NEtFOSAA	111		25 - 150	07/21/21 12:02	07/23/21 02:27	1
d-N-MeFOSA-M	91		10 - 150	07/21/21 12:02	07/23/21 02:27	1
d-N-EtFOSA-M	80		10 - 150	07/21/21 12:02	07/23/21 02:27	1
d7-N-MeFOSE-M	87		10 - 150	07/21/21 12:02	07/23/21 02:27	1
d9-N-EtFOSE-M	85		10 - 150	07/21/21 12:02	07/23/21 02:27	1
M2-4:2 FTS	84		25 - 150	07/21/21 12:02	07/23/21 02:27	1
M2-6:2 FTS	92		25 - 150	07/21/21 12:02	07/23/21 02:27	1
M2-8:2 FTS	110		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C3 HFPO-DA	97		25 - 150	07/21/21 12:02	07/23/21 02:27	1
13C2 10:2 FTS	124		25 - 150	07/21/21 12:02	07/23/21 02:27	1

Lab Sample ID: LCS 320-508842/2-A
Matrix: Water
Analysis Batch: 509427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoropentanoic acid (PFPeA)	40.0	35.0		ng/L		87	60 - 135
Perfluorohexanoic acid (PFHxA)	40.0	32.6		ng/L		81	60 - 135
Perfluoroheptanoic acid (PFHpA)	40.0	34.9		ng/L		87	60 - 135
Perfluorooctanoic acid (PFOA)	40.0	34.7		ng/L		87	60 - 135
Perfluorononanoic acid (PFNA)	40.0	36.9		ng/L		92	60 - 135
Perfluorodecanoic acid (PFDA)	40.0	34.6		ng/L		86	60 - 135
Perfluoroundecanoic acid (PFUnA)	40.0	40.4		ng/L		101	60 - 135
Perfluorododecanoic acid (PFDoA)	40.0	37.7		ng/L		94	60 - 135
Perfluorotridecanoic acid (PFTTrDA)	40.0	35.8		ng/L		89	60 - 135
Perfluorotetradecanoic acid (PFTeA)	40.0	36.9		ng/L		92	60 - 135
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	38.2		ng/L		95	60 - 135
Perfluoro-n-octadecanoic acid (PFODA)	40.0	32.4		ng/L		81	60 - 135
Perfluorobutanesulfonic acid (PFBS)	35.4	28.4		ng/L		80	60 - 135
Perfluoropentanesulfonic acid (PFPeS)	37.5	28.5		ng/L		76	60 - 135
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.0		ng/L		88	60 - 135

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-76454-1

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

Lab Sample ID: LCS 320-508842/2-A
Matrix: Water
Analysis Batch: 509427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	34.2		ng/L		90	60 - 135
Perfluorooctanesulfonic acid (PFOS)	37.1	33.2		ng/L		90	60 - 135
Perfluorononanesulfonic acid (PFNS)	38.4	37.4		ng/L		97	60 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	31.3		ng/L		81	60 - 135
Perfluorododecanesulfonic acid (PFDoS)	38.7	35.0		ng/L		90	60 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	37.0		ng/L		93	60 - 135
NEtFOSA	40.0	36.0		ng/L		90	60 - 135
NMeFOSA	40.0	36.9		ng/L		92	60 - 135
NMeFOSAA	40.0	38.8		ng/L		97	60 - 135
NEtFOSAA	40.0	39.0		ng/L		98	60 - 135
NMeFOSE	40.0	34.9		ng/L		87	60 - 135
NEtFOSE	40.0	37.7		ng/L		94	60 - 135
4:2 FTS	37.4	38.6		ng/L		103	60 - 135
6:2 FTS	37.9	33.0		ng/L		87	60 - 135
8:2 FTS	38.3	43.2		ng/L		113	60 - 135
10:2 FTS	38.6	36.5		ng/L		95	60 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	30.7		ng/L		81	60 - 135
HFPO-DA (GenX)	40.0	33.0		ng/L		83	60 - 135
9Cl-PF3ONS	37.3	32.3		ng/L		87	60 - 135
11Cl-PF3OUdS	37.7	35.2		ng/L		94	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	100		25 - 150
13C5 PFPeA	97		25 - 150
13C2 PFHxA	112		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	100		25 - 150
13C5 PFNA	99		25 - 150
13C2 PFDA	105		25 - 150
13C2 PFUnA	100		25 - 150
13C2 PFDoA	106		25 - 150
13C2 PFTeDA	97		25 - 150
13C2 PFHxDA	104		25 - 150
13C3 PFBS	118		25 - 150
18O2 PFHxS	105		25 - 150
13C4 PFOS	114		25 - 150
13C8 FOSA	111		10 - 150
d3-NMeFOSAA	105		25 - 150
d5-NEtFOSAA	103		25 - 150
d-N-MeFOSA-M	94		10 - 150
d-N-EtFOSA-M	95		10 - 150
d7-N-MeFOSE-M	90		10 - 150
d9-N-EtFOSE-M	84		10 - 150

QC Sample Results

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

Job ID: 320-76454-1

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

Lab Sample ID: LCS 320-508842/2-A
Matrix: Water
Analysis Batch: 509427

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 508842

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	77		25 - 150
M2-6:2 FTS	101		25 - 150
M2-8:2 FTS	106		25 - 150
13C3 HFPO-DA	91		25 - 150
13C2 10:2 FTS	128		25 - 150

Lab Sample ID: LCSD 320-508842/3-A
Matrix: Water
Analysis Batch: 509427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 508842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Perfluorobutanoic acid (PFBA)	40.0	35.2		ng/L		88	60 - 135	5	30
Perfluoropentanoic acid (PFPeA)	40.0	35.6		ng/L		89	60 - 135	2	30
Perfluorohexanoic acid (PFHxA)	40.0	36.8		ng/L		92	60 - 135	12	30
Perfluoroheptanoic acid (PFHpA)	40.0	35.6		ng/L		89	60 - 135	2	30
Perfluorooctanoic acid (PFOA)	40.0	36.5		ng/L		91	60 - 135	5	30
Perfluorononanoic acid (PFNA)	40.0	37.8		ng/L		95	60 - 135	3	30
Perfluorodecanoic acid (PFDA)	40.0	36.7		ng/L		92	60 - 135	6	30
Perfluoroundecanoic acid (PFUnA)	40.0	40.3		ng/L		101	60 - 135	0	30
Perfluorododecanoic acid (PFDoA)	40.0	37.7		ng/L		94	60 - 135	0	30
Perfluorotridecanoic acid (PFTrDA)	40.0	37.9		ng/L		95	60 - 135	6	30
Perfluorotetradecanoic acid (PFTeA)	40.0	35.6		ng/L		89	60 - 135	3	30
Perfluoro-n-hexadecanoic acid (PFHxDA)	40.0	36.4		ng/L		91	60 - 135	5	30
Perfluoro-n-octadecanoic acid (PFODA)	40.0	27.4		ng/L		69	60 - 135	17	30
Perfluorobutanesulfonic acid (PFBS)	35.4	30.0		ng/L		85	60 - 135	5	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	29.6		ng/L		79	60 - 135	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.5		ng/L		89	60 - 135	2	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	31.3		ng/L		82	60 - 135	9	30
Perfluorooctanesulfonic acid (PFOS)	37.1	32.8		ng/L		88	60 - 135	1	30
Perfluorononanesulfonic acid (PFNS)	38.4	36.7		ng/L		96	60 - 135	2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	34.4		ng/L		89	60 - 135	9	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	34.3		ng/L		89	60 - 135	2	30
Perfluorooctanesulfonamide (FOSA)	40.0	34.8		ng/L		87	60 - 135	6	30
NEtFOSA	40.0	37.8		ng/L		95	60 - 135	5	30
NMeFOSA	40.0	37.8		ng/L		95	60 - 135	3	30
NMeFOSAA	40.0	39.0		ng/L		97	60 - 135	0	30
NEtFOSAA	40.0	35.8		ng/L		89	60 - 135	9	30
NMeFOSE	40.0	35.2		ng/L		88	60 - 135	1	30

Eurofins TestAmerica, Sacramento

QC Sample Results

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

Job ID: 320-76454-1

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

Lab Sample ID: LCSD 320-508842/3-A
Matrix: Water
Analysis Batch: 509427

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 508842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
NEtFOSE	40.0	33.9		ng/L		85	60 - 135	11	30
4:2 FTS	37.4	35.4		ng/L		95	60 - 135	9	30
6:2 FTS	37.9	37.3		ng/L		98	60 - 135	12	30
8:2 FTS	38.3	38.2		ng/L		100	60 - 135	12	30
10:2 FTS	38.6	36.6		ng/L		95	60 - 135	0	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	30.4		ng/L		81	60 - 135	1	30
HFPO-DA (GenX)	40.0	38.2		ng/L		95	60 - 135	14	30
9Cl-PF3ONS	37.3	33.1		ng/L		89	60 - 135	2	30
11Cl-PF3OUdS	37.7	36.3		ng/L		96	60 - 135	3	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C4 PFBA	98		25 - 150
13C5 PFPeA	95		25 - 150
13C2 PFHxA	103		25 - 150
13C4 PFHpA	97		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	98		25 - 150
13C2 PFDA	106		25 - 150
13C2 PFUnA	100		25 - 150
13C2 PFDoA	101		25 - 150
13C2 PFTeDA	96		25 - 150
13C2 PFHxDA	106		25 - 150
13C3 PFBS	112		25 - 150
18O2 PFHxS	99		25 - 150
13C4 PFOS	110		25 - 150
13C8 FOSA	106		10 - 150
d3-NMeFOSAA	96		25 - 150
d5-NEtFOSAA	109		25 - 150
d-N-MeFOSA-M	88		10 - 150
d-N-EtFOSA-M	87		10 - 150
d7-N-MeFOSE-M	87		10 - 150
d9-N-EtFOSE-M	82		10 - 150
M2-4:2 FTS	75		25 - 150
M2-6:2 FTS	85		25 - 150
M2-8:2 FTS	110		25 - 150
13C3 HFPO-DA	88		25 - 150
13C2 10:2 FTS	122		25 - 150

QC Association Summary

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

Job ID: 320-76454-1

LCMS

Prep Batch: 508842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76454-1	Well 17	Total/NA	Water	3535	
320-76454-2	Well 17 FB	Total/NA	Water	3535	
MB 320-508842/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-508842/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-508842/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 509427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76454-1	Well 17	Total/NA	Water	537 (modified)	508842
320-76454-2	Well 17 FB	Total/NA	Water	537 (modified)	508842
MB 320-508842/1-A	Method Blank	Total/NA	Water	537 (modified)	508842
LCS 320-508842/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	508842
LCSD 320-508842/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	508842

Lab Chronicle

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

Job ID: 320-76454-1

Client Sample ID: Well 17

Date Collected: 07/19/21 11:53

Date Received: 07/20/21 09:50

Lab Sample ID: 320-76454-1

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			275 mL	10.0 mL	508842	07/21/21 12:02	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1			509427	07/23/21 02:56	RS1	TAL SAC

Client Sample ID: Well 17 FB

Date Collected: 07/19/21 11:54

Date Received: 07/20/21 09:50

Lab Sample ID: 320-76454-2

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			279.6 mL	10.0 mL	508842	07/21/21 12:02	RAC	TAL SAC
Total/NA	Analysis	537 (modified)		1			509427	07/23/21 03:05	RS1	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

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

Job ID: 320-76454-1

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: 320-76454-1

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: 320-76454-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-76454-1	Well 17	Water	07/19/21 11:53	07/20/21 09:50
320-76454-2	Well 17 FB	Water	07/19/21 11:54	07/20/21 09:50

1

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13

14

15

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

Chain of Custody Record

<p>Client Information Client Contact: Ty Fadness Phone: 715 839-6171 E-Mail: sandra.fredrick@eurofinset.com</p>	<p>Lab PM Fredrick, Sandie State of Origin: WI</p>	<p>Sampler Ty Faddness Phone: 715 839-6171 FWSID: _____</p>	<p>COC No. 320-41484-10136 1 Page 1 of 1 Job #:</p>																				
<p>Address: City of Eau Claire WWTP 1000 Ferry St. Eau Claire, WI 54703 Phone: _____</p>		 320-76454 Chain of Custody																					
<p>Due Date Requested: TAT Requested (days): 7-Day Turn Around Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: _____ Purchase Order Requested: <input type="checkbox"/></p>		<p>Camper Tracking Note(s) State of Origin: WI</p>																					
<p>Project Name: PFAS Testing Site: _____ Project #: 32012617 SSOW#: _____</p>		<p>Formal MS/ Perform MS/ (Yes or No) <input checked="" type="checkbox"/> <input type="checkbox"/></p>																					
<p>Sample Identification</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=Water, S=solid, D=dust/particulate)</th> </tr> </thead> <tbody> <tr> <td>7/15/21</td> <td>1153</td> <td>G</td> <td>Water</td> </tr> <tr> <td>7/19/21</td> <td>1154</td> <td>G</td> <td>Water</td> </tr> <tr> <td>Well 17</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Well 17 FB</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, D=dust/particulate)	7/15/21	1153	G	Water	7/19/21	1154	G	Water	Well 17				Well 17 FB				<p>Special Instructions/Note:</p> <p>Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 L - EDA Other: _____</p>	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, D=dust/particulate)																				
7/15/21	1153	G	Water																				
7/19/21	1154	G	Water																				
Well 17																							
Well 17 FB																							
<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p>		<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>																					
<p>Deliverable Requested: I, II, III, IV, Other (specify) _____</p>		<p>Special Instructions/QC Requirements:</p>																					
<p>Empty Kit Relinquished by: _____ Relinquished by: _____ Relinquished by: _____ Relinquished by: _____</p>		<p>Method of Shipment: Date/Time: 7/19/21 1300 Company: C.T.F.E.C. Date/Time: 7/20/21-950 Company: ETACAC Date/Time: _____ Company: _____</p>																					
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		<p>Cooler Temperature(s) °C and Other Remarks: 4.5</p>																					



Login Sample Receipt Checklist

Client: City of Eau Claire

Job Number: 320-76454-1

Login Number: 76454

List Source: Eurofins TestAmerica, Sacramento

List Number: 1

Creator: Cahill, Nicholas P

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	1600517
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	