

 **ANALYTICAL REPORT****PREPARED FOR**

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Union County Water
500 N Main St.
Monroe, North Carolina 28112

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JOB DESCRIPTION

PFAS - 533

JOB NUMBER

810-170989-1

Eurofins Eaton Analytical South Bend

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Eaton Analytical, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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: Union County Water
Project: PFAS - 533

Job ID: 810-170989-1

Job ID: 810-170989-1

Eurofins Eaton Analytical South Bend

Job Narrative 810-170989-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/7/2025 9:30 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 time was 0.9°C.

PFAS

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: J18 Rehobeth ARV (810-170989-1), Y01 Yadkin Finished Water (810-170989-2), (810-170989-A-1 LMS) and (810-170989-A-2 DU)

Method 533: The pH of the following sample was adjusted to pH 7.5 in the laboratory: Y02 Yadkin Raw Water (810-170989-3)

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

Detection Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-170989-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.4		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	6.5		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	5.7		1.9		ng/L	1		533	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.8		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.7		1.9		ng/L	1		533	Total/NA

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-170989-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.5		2.0		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	3.0		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.3		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1		2.0		ng/L	1		533	Total/NA

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-170989-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.5		1.9		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	2.8		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	2.5		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.7		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.1		1.9		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-170989-1

Date Collected: 11/06/25 10:06

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.4		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoropentanoic acid (PFPeA)	6.5		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorohexanoic acid (PFHxA)	5.7		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoroheptanoic acid (PFHpA)	2.0		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorooctanoic acid (PFOA)	3.8		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluorooctanesulfonic acid (PFOS)	2.7		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 19:38	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C5 PFPeA	93		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C5 PFHxA	90		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C4 PFHpA	89		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C8 PFOA	90		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C9 PFNA	89		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C6 PFDA	86		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C7 PFUnA	82		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C2 PFDoA	83		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C3 HFPO-DA	88		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C3 PFBS	94		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C8 PFOS	90		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C2-4:2-FTS	103		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C2-6:2-FTS	107		50 - 200	11/11/25 07:00	11/11/25 19:38	1

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Client Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-170989-1

Date Collected: 11/06/25 10:06

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-8:2-FTS	98		50 - 200	11/11/25 07:00	11/11/25 19:38	1
13C3 PFHxS	89		50 - 200	11/11/25 07:00	11/11/25 19:38	1

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-170989-2

Date Collected: 11/06/25 13:06

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.5		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoropentanoic acid (PFPeA)	3.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorohexanoic acid (PFHxA)	2.3		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorooctanoic acid (PFOA)	2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluorooctanesulfonic acid (PFOS)	2.1		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		11/11/25 07:00	11/11/25 20:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	93		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C5 PFPeA	92		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C5 PFHxA	91		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C4 PFHpA	92		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C8 PFOA	91		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C9 PFNA	91		50 - 200	11/11/25 07:00	11/11/25 20:08	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-170989-2

Date Collected: 11/06/25 13:06

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6 PFDA	88		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C7 PFOA	84		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C2 PFDoA	86		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C3 HFPO-DA	87		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C3 PFBS	95		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C8 PFOS	91		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C2-4:2-FTS	100		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C2-6:2-FTS	102		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C2-8:2-FTS	92		50 - 200	11/11/25 07:00	11/11/25 20:08	1
13C3 PFHxS	91		50 - 200	11/11/25 07:00	11/11/25 20:08	1

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-170989-3

Date Collected: 11/06/25 13:10

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.5		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoropentanoic acid (PFPeA)	2.8		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorohexanoic acid (PFHxA)	2.5		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorooctanoic acid (PFOA)	2.7		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluorooctanesulfonic acid (PFOS)	4.1		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Union County Water
 Project/Site: PFAS - 533

Job ID: 810-170989-1

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-170989-3

Date Collected: 11/06/25 13:10

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		11/11/25 07:00	11/11/25 22:58	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	94		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C5 PFPeA	93		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C5 PFHxA	90		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C4 PFHpA	88		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C8 PFOA	84		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C9 PFNA	84		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C6 PFDA	79		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C7 PFUnA	78		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C2 PFDoA	82		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C3 HFPO-DA	85		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C3 PFBS	95		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C8 PFOS	93		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C2-4:2-FTS	107		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C2-6:2-FTS	109		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C2-8:2-FTS	101		50 - 200				11/11/25 07:00	11/11/25 22:58	1
13C3 PFHxS	91		50 - 200				11/11/25 07:00	11/11/25 22:58	1

Isotope Dilution Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Matrix: Drinking Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFBA (50-200)	PFPeA (50-200)	13C5PHA (50-200)	C4PFHA (50-200)	C8PFOA (50-200)	C9PFNA (50-200)	C6PFDA (50-200)	13C7PUA (50-200)
810-170989-1	J18 Rehobeth ARV	93	93	90	89	90	89	86	82
810-170989-1 LMS	J18 Rehobeth ARV	96	96	93	92	92	89	89	87
810-170989-2	Y01 Yadkin Finished Water	93	92	91	92	91	91	88	84
810-170989-2 DU	Y01 Yadkin Finished Water	93	92	87	89	90	89	87	85
810-170989-3	Y02 Yadkin Raw Water	94	93	90	88	84	84	79	78
LLCS 810-168609/2-A	Lab Control Sample	95	96	92	95	96	96	95	94
MBL 810-168609/1-A	Method Blank	96	98	94	96	97	99	95	93

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDoA (50-200)	HFPODA (50-200)	C3PFBS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)	C3PFHS (50-200)
810-170989-1	J18 Rehobeth ARV	83	88	94	90	103	107	98	89
810-170989-1 LMS	J18 Rehobeth ARV	89	89	98	94	107	108	102	95
810-170989-2	Y01 Yadkin Finished Water	86	87	95	91	100	102	92	91
810-170989-2 DU	Y01 Yadkin Finished Water	86	86	93	90	96	98	94	89
810-170989-3	Y02 Yadkin Raw Water	82	85	95	93	107	109	101	91
LLCS 810-168609/2-A	Lab Control Sample	93	92	93	93	86	89	92	92
MBL 810-168609/1-A	Method Blank	94	95	93	94	87	89	94	91

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA
- 13C7PUA = 13C7 PFUnA
- PFDoA = 13C2 PFDoA
- HFPODA = 13C3 HFPO-DA
- C3PFBS = 13C3 PFBS
- C8PFOS = 13C8 PFOS
- 42FTS = 13C2-4:2-FTS
- 62FTS = 13C2-6:2-FTS
- 82FTS = 13C2-8:2-FTS
- C3PFHS = 13C3 PFHxS

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Lab Sample ID: MBL 810-168609/1-A
Matrix: Drinking Water
Analysis Batch: 168722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168609

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoropentanoic acid (PFPeA)	<0.77		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorohexanoic acid (PFHxA)	<0.73		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoroheptanoic acid (PFHpA)	<0.72		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorooctanoic acid (PFOA)	<0.74		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorononanoic acid (PFNA)	<0.73		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorodecanoic acid (PFDA)	<0.66		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoroundecanoic acid (PFUnA)	<0.70		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorododecanoic acid (PFDoA)	<0.70		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorobutanesulfonic acid (PFBS)	<0.66		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoropentanesulfonic acid (PFPeS)	<0.69		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorohexanesulfonic acid (PFHxS)	<0.66		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.60		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluorooctanesulfonic acid (PFOS)	<0.69		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.66		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.67		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.71		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.60		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.97		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.82		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoro(4-methoxybutanoic acid)	<0.65		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.81		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		11/11/25 07:00	11/11/25 19:07	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C5 PFPeA	98		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C5 PFHxA	94		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C4 PFHpA	96		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C8 PFOA	97		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C9 PFNA	99		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C6 PFDA	95		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C7 PFUnA	93		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C2 PFDoA	94		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C3 HFPO-DA	95		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C3 PFBS	93		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C8 PFOS	94		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C2-4:2-FTS	87		50 - 200	11/11/25 07:00	11/11/25 19:07	1

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: MBL 810-168609/1-A
Matrix: Drinking Water
Analysis Batch: 168722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 168609

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	89		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C2-8:2-FTS	94		50 - 200	11/11/25 07:00	11/11/25 19:07	1
13C3 PFHxS	91		50 - 200	11/11/25 07:00	11/11/25 19:07	1

Lab Sample ID: LLCS 810-168609/2-A
Matrix: Drinking Water
Analysis Batch: 168722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 168609

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.92	J	ng/L		96	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	1.94	J	ng/L		97	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.85	J	ng/L		92	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	2.07		ng/L		103	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	2.06		ng/L		103	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	2.22		ng/L		111	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.66	J	ng/L		93	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.71	J	ng/L		91	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.62	J	ng/L		89	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.76	J	ng/L		92	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.71	J	ng/L		92	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	1.78	1.88	J	ng/L		106	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.86	J	ng/L		99	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	2.07		ng/L		109	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.95	J	ng/L		102	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.89	J	ng/L		94	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.78	J	ng/L		94	50 - 150
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.82	J	ng/L		97	50 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	1.89	1.93	J	ng/L		102	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.90	J	ng/L		95	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.78	J	ng/L		89	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	2.00		ng/L		100	50 - 150

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	95		50 - 200
13C5 PFPeA	96		50 - 200
13C5 PFHxA	92		50 - 200
13C4 PFHpA	95		50 - 200
13C8 PFOA	96		50 - 200
13C9 PFNA	96		50 - 200
13C6 PFDA	95		50 - 200
13C7 PFUnA	94		50 - 200
13C2 PFDoA	93		50 - 200
13C3 HFPO-DA	92		50 - 200
13C3 PFBS	93		50 - 200
13C8 PFOS	93		50 - 200
13C2-4:2-FTS	86		50 - 200
13C2-6:2-FTS	89		50 - 200
13C2-8:2-FTS	92		50 - 200
13C3 PFHxS	92		50 - 200

Lab Sample ID: 810-170989-1 LMS

Matrix: Drinking Water

Analysis Batch: 168722

Client Sample ID: J18 Rehobeth ARV

Prep Type: Total/NA

Prep Batch: 168609

Analyte	Sample	Sample	Spike	LMS	LMS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Perfluorobutanoic acid (PFBA)	3.4		1.92	5.21		ng/L		93	50 - 150
Perfluoropentanoic acid (PFPeA)	6.5		1.92	8.55		ng/L		105	50 - 150
Perfluorohexanoic acid (PFHxA)	5.7		1.92	7.75		ng/L		104	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.0		1.92	3.95		ng/L		102	50 - 150
Perfluorooctanoic acid (PFOA)	3.8		1.92	5.69		ng/L		96	50 - 150
Perfluorononanoic acid (PFNA)	<1.9		1.92	2.60		ng/L		136	50 - 150
Perfluorodecanoic acid (PFDA)	<1.9		1.92	2.47		ng/L		129	50 - 150
Perfluoroundecanoic acid (PFUnA)	<1.9		1.92	2.07		ng/L		108	50 - 150
Perfluorododecanoic acid (PFDoA)	<1.9		1.92	2.01		ng/L		105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.70	3.43		ng/L		94	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.80	2.01		ng/L		111	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.75	3.06		ng/L		96	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.83	1.75	J	ng/L		95	50 - 150
Perfluorooctanesulfonic acid (PFOS)	2.7		1.78	4.53		ng/L		101	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.9		1.71	1.12	J	ng/L		65	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.80	1.75	J	ng/L		97	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.83	2.22		ng/L		121	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.84	1.84	J	ng/L		100	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.92	1.93		ng/L		100	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.82	1.72	J	ng/L		94	50 - 150

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QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 810-170989-1 LMS

Matrix: Drinking Water

Analysis Batch: 168722

Client Sample ID: J18 Rehobeth ARV

Prep Type: Total/NA

Prep Batch: 168609

Analyte	Sample Result	Sample Qualifier	Spike Added	LMS Result	LMS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	<1.9		1.79	1.71	J	ng/L		95	50 - 150
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	<1.9		1.81	1.69	J	ng/L		93	50 - 150
Perfluoro(4-methoxybutanoic acid)	<1.9		1.92	1.86	J	ng/L		97	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.92	1.69	J	ng/L		88	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.92	1.93		ng/L		100	50 - 150

Isotope Dilution	LMS %Recovery	LMS Qualifier	LMS Limits
13C4 PFBA	96		50 - 200
13C5 PFPeA	96		50 - 200
13C5 PFHxA	93		50 - 200
13C4 PFHpA	92		50 - 200
13C8 PFOA	92		50 - 200
13C9 PFNA	89		50 - 200
13C6 PFDA	89		50 - 200
13C7 PFUnA	87		50 - 200
13C2 PFDoA	89		50 - 200
13C3 HFPO-DA	89		50 - 200
13C3 PFBS	98		50 - 200
13C8 PFOS	94		50 - 200
13C2-4:2-FTS	107		50 - 200
13C2-6:2-FTS	108		50 - 200
13C2-8:2-FTS	102		50 - 200
13C3 PFHxS	95		50 - 200

Lab Sample ID: 810-170989-2 DU

Matrix: Drinking Water

Analysis Batch: 168722

Client Sample ID: Y01 Yadkin Finished Water

Prep Type: Total/NA

Prep Batch: 168609

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	2.5		2.54		ng/L		1	30
Perfluoropentanoic acid (PFPeA)	3.0		2.99		ng/L		0.5	30
Perfluorohexanoic acid (PFHxA)	2.3		2.42		ng/L		4	30
Perfluoroheptanoic acid (PFHpA)	<2.0		<1.9		ng/L		NC	30
Perfluorooctanoic acid (PFOA)	2.0		1.94		ng/L		5	30
Perfluorononanoic acid (PFNA)	<2.0		<1.9		ng/L		NC	30
Perfluorodecanoic acid (PFDA)	<2.0		<1.9		ng/L		NC	30
Perfluoroundecanoic acid (PFUnA)	<2.0		<1.9		ng/L		NC	30
Perfluorododecanoic acid (PFDoA)	<2.0		<1.9		ng/L		NC	30
Perfluorobutanesulfonic acid (PFBS)	<2.0		<1.9		ng/L		NC	30
Perfluoropentanesulfonic acid (PFPeS)	<2.0		<1.9		ng/L		NC	30
Perfluorohexanesulfonic acid (PFHxS)	<2.0		<1.9		ng/L		NC	30

Eurofins Eaton Analytical South Bend

QC Sample Results

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Method: 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

Lab Sample ID: 810-170989-2 DU

Matrix: Drinking Water

Analysis Batch: 168722

Client Sample ID: Y01 Yadkin Finished Water

Prep Type: Total/NA

Prep Batch: 168609

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		<1.9		ng/L		NC	30
Perfluorooctanesulfonic acid (PFOS)	2.1		2.20		ng/L		4	30
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<2.0		<1.9		ng/L		NC	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		<1.9		ng/L		NC	30
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		<1.9		ng/L		NC	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		<1.9		ng/L		NC	30
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		<1.9		ng/L		NC	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		<1.9		ng/L		NC	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		<1.9		ng/L		NC	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<2.0		<1.9		ng/L		NC	30
Perfluoro(4-methoxybutanoic acid)	<2.0		<1.9		ng/L		NC	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		<1.9		ng/L		NC	30
Perfluoro-3,6-dioxaheptanoic acid	<2.0		<1.9		ng/L		NC	30

Isotope Dilution	DU	DU	Limits
	%Recovery	Qualifier	
13C4 PFBA	93		50 - 200
13C5 PFPeA	92		50 - 200
13C5 PFHxA	87		50 - 200
13C4 PFHpA	89		50 - 200
13C8 PFOA	90		50 - 200
13C9 PFNA	89		50 - 200
13C6 PFDA	87		50 - 200
13C7 PFUnA	85		50 - 200
13C2 PFDoA	86		50 - 200
13C3 HFPO-DA	86		50 - 200
13C3 PFBS	93		50 - 200
13C8 PFOS	90		50 - 200
13C2-4:2-FTS	96		50 - 200
13C2-6:2-FTS	98		50 - 200
13C2-8:2-FTS	94		50 - 200
13C3 PFHxS	89		50 - 200

QC Association Summary

Client: Union County Water
 Project/Site: PFAS - 533

Job ID: 810-170989-1

LCMS

Prep Batch: 168609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170989-1	J18 Rehobeth ARV	Total/NA	Drinking Water	533	
810-170989-2	Y01 Yadkin Finished Water	Total/NA	Drinking Water	533	
810-170989-3	Y02 Yadkin Raw Water	Total/NA	Drinking Water	533	
MBL 810-168609/1-A	Method Blank	Total/NA	Drinking Water	533	
LLCS 810-168609/2-A	Lab Control Sample	Total/NA	Drinking Water	533	
810-170989-1 LMS	J18 Rehobeth ARV	Total/NA	Drinking Water	533	
810-170989-2 DU	Y01 Yadkin Finished Water	Total/NA	Drinking Water	533	

Analysis Batch: 168722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-170989-1	J18 Rehobeth ARV	Total/NA	Drinking Water	533	168609
810-170989-2	Y01 Yadkin Finished Water	Total/NA	Drinking Water	533	168609
810-170989-3	Y02 Yadkin Raw Water	Total/NA	Drinking Water	533	168609
MBL 810-168609/1-A	Method Blank	Total/NA	Drinking Water	533	168609
LLCS 810-168609/2-A	Lab Control Sample	Total/NA	Drinking Water	533	168609
810-170989-1 LMS	J18 Rehobeth ARV	Total/NA	Drinking Water	533	168609
810-170989-2 DU	Y01 Yadkin Finished Water	Total/NA	Drinking Water	533	168609



Lab Chronicle

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Client Sample ID: J18 Rehobeth ARV

Lab Sample ID: 810-170989-1

Date Collected: 11/06/25 10:06

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			168609	ET	EA SB	11/11/25 07:00
Total/NA	Analysis	533		1	168722	PP	EA SB	11/11/25 19:38

Client Sample ID: Y01 Yadkin Finished Water

Lab Sample ID: 810-170989-2

Date Collected: 11/06/25 13:06

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			168609	ET	EA SB	11/11/25 07:00
Total/NA	Analysis	533		1	168722	PP	EA SB	11/11/25 20:08

Client Sample ID: Y02 Yadkin Raw Water

Lab Sample ID: 810-170989-3

Date Collected: 11/06/25 13:10

Matrix: Drinking Water

Date Received: 11/07/25 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			168609	ET	EA SB	11/11/25 07:00
Total/NA	Analysis	533		1	168722	PP	EA SB	11/11/25 22:58

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777

Accreditation/Certification Summary

Client: Union County Water
 Project/Site: PFAS - 533

Job ID: 810-170989-1

Laboratory: Eurofins Eaton Analytical South Bend

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
North Carolina (DW)	State	18700	07-31-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
533	533	Drinking Water	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid
533	533	Drinking Water	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)
533	533	Drinking Water	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)
533	533	Drinking Water	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)
533	533	Drinking Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
533	533	Drinking Water	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid
533	533	Drinking Water	Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)
533	533	Drinking Water	Perfluoro(4-methoxybutanoic acid)
533	533	Drinking Water	Perfluoro-3,6-dioxaheptanoic acid
533	533	Drinking Water	Perfluoro-3-methoxypropanoic acid (PFMPA)
533	533	Drinking Water	Perfluorobutanoic acid (PFBA)
533	533	Drinking Water	Perfluorodecanoic acid (PFDA)
533	533	Drinking Water	Perfluorododecanoic acid (PFDoA)
533	533	Drinking Water	Perfluoroheptanesulfonic acid (PFHpS)
533	533	Drinking Water	Perfluoroheptanoic acid (PFHpA)
533	533	Drinking Water	Perfluorohexanoic acid (PFHxA)
533	533	Drinking Water	Perfluoropentanesulfonic acid (PFPeS)
533	533	Drinking Water	Perfluoropentanoic acid (PFPeA)
533	533	Drinking Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Method	Method Description	Protocol	Laboratory
533	Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water	EPA	EA SB
533	Extraction of Perfluorinated and Polyfluorinated Alkyl Acids	EPA	EA SB

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

EA SB = Eurofins Eaton Analytical South Bend, 110 S Hill Street, South Bend, IN 46617, TEL (574)233-4777



Sample Summary

Client: Union County Water
Project/Site: PFAS - 533

Job ID: 810-170989-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
810-170989-1	J18 Rehobeth ARV	Drinking Water	11/06/25 10:06	11/07/25 09:30	North Carolina
810-170989-2	Y01 Yadkin Finished Water	Drinking Water	11/06/25 13:06	11/07/25 09:30	North Carolina
810-170989-3	Y02 Yadkin Raw Water	Drinking Water	11/06/25 13:10	11/07/25 09:30	North Carolina

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

Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-170989-1

Login Number: 170989

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: Pehling-Wright, Penny

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	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	
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	
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	
Samples do not require splitting or compositing.	True	
Were samples preserved to correct pH upon receipt, if applicable?	True	
Container provided by EEA	True	

