

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Justin Huntley  
Union County Water  
500 N Main St.  
Monroe, North Carolina 28112

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## JOB DESCRIPTION

PFAS - 533

## JOB NUMBER

810-137609-1

# 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: 810-137609-1

## 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: 810-137609-1

**Job ID: 810-137609-1**

**Eurofins Eaton Analytical South Bend**

## **Job Narrative 810-137609-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### **Receipt**

The samples were received on 2/12/2025 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 time was 0.2°C.

### **PFAS**

Method 533: The pH of the following samples were adjusted to pH 7.5 in the laboratory: J18-Rehobeth ARV (810-137609-1), Y01-Yadkin Finished Water (810-137609-2) and Y02-Yadkin Raw Water (810-137609-3)

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: 810-137609-1

## Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-137609-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.4		2.0		ng/L	1		533	Total/NA
Perfluoropentanoic acid (PFPeA)	5.5		2.0		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	5.3		2.0		ng/L	1		533	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.1		2.0		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	3.4		2.0		ng/L	1		533	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.0		2.0		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.1		2.0		ng/L	1		533	Total/NA

## Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-137609-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.0		2.0		ng/L	1		533	Total/NA

## Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-137609-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorohexanoic acid (PFHxA)	1.9		1.9		ng/L	1		533	Total/NA
Perfluorooctanoic acid (PFOA)	2.1		1.9		ng/L	1		533	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		1.9		ng/L	1		533	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 810-137609-1

**Client Sample ID: J18-Rehobeth ARV**

**Lab Sample ID: 810-137609-1**

Date Collected: 02/11/25 09:51

Matrix: Drinking Water

Date Received: 02/12/25 09:45

**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		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoropentanoic acid (PFPeA)	5.5		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorohexanoic acid (PFHxA)	5.3		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoroheptanoic acid (PFHpA)	2.1		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorooctanoic acid (PFOA)	3.4		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorobutanesulfonic acid (PFBS)	2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluorooctanesulfonic acid (PFOS)	3.1		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 14:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C5 PFPeA	104		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C5 PFHxA	85		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C4 PFHpA	86		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C8 PFOA	86		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C9 PFNA	86		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C6 PFDA	85		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C7 PFUnA	82		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C2 PFDoA	82		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C3 HFPO-DA	82		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C3 PFBS	94		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C8 PFOS	88		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C2-4:2-FTS	107		50 - 200	02/17/25 08:09	02/18/25 14:42	1

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# Client Sample Results

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

Job ID: 810-137609-1

**Client Sample ID: J18-Rehobeth ARV**

**Lab Sample ID: 810-137609-1**

Date Collected: 02/11/25 09:51

Matrix: Drinking Water

Date Received: 02/12/25 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-6:2-FTS	96		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C2-8:2-FTS	92		50 - 200	02/17/25 08:09	02/18/25 14:42	1
13C3 PFHxS	86		50 - 200	02/17/25 08:09	02/18/25 14:42	1

**Client Sample ID: Y01-Yadkin Finished Water**

**Lab Sample ID: 810-137609-2**

Date Collected: 02/11/25 11:07

Matrix: Drinking Water

Date Received: 02/12/25 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>2.0</b>		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorononanoic acid (PFNA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorododecanoic acid (PFDoA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoroheptanesulfonic acid (PFHpS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoro(4-methoxybutanoic acid)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1
Perfluoro-3,6-dioxaheptanoic acid	<2.0		2.0		ng/L		02/17/25 08:09	02/18/25 13:48	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	88		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C5 PFPeA	94		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C5 PFHxA	86		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C4 PFHpA	85		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C8 PFOA	87		50 - 200	02/17/25 08:09	02/18/25 13:48	1

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# Client Sample Results

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

Job ID: 810-137609-1

## Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-137609-2

Date Collected: 02/11/25 11:07

Matrix: Drinking Water

Date Received: 02/12/25 09:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C9 PFNA	86		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C6 PFDA	86		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C7 PFUnA	84		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C2 PFDoA	83		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C3 HFPO-DA	83		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C3 PFBS	90		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C8 PFOS	87		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C2-4:2-FTS	95		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C2-6:2-FTS	89		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C2-8:2-FTS	90		50 - 200	02/17/25 08:09	02/18/25 13:48	1
13C3 PFHxS	89		50 - 200	02/17/25 08:09	02/18/25 13:48	1

## Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-137609-3

Date Collected: 02/11/25 11:02

Matrix: Drinking Water

Date Received: 02/12/25 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>1.9</b>		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>1.9</b>		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.1</b>		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluorononanoic acid (PFNA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.8</b>		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoro(4-methoxybutanoic acid)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1

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# Client Sample Results

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

Job ID: 810-137609-1

**Client Sample ID: Y02-Yadkin Raw Water**

**Lab Sample ID: 810-137609-3**

Date Collected: 02/11/25 11:02

Matrix: Drinking Water

Date Received: 02/12/25 09:45

**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-methoxypropanoic acid (PFMPA)	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Perfluoro-3,6-dioxaheptanoic acid	<1.9		1.9		ng/L		02/17/25 08:09	02/18/25 14:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	91		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C5 PFPeA	101		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C5 PFHxA	91		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C4 PFHpA	92		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C8 PFOA	88		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C9 PFNA	89		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C6 PFDA	87		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C7 PFUnA	85		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C2 PFDoA	87		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C3 HFPO-DA	86		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C3 PFBS	94		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C8 PFOS	90		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C2-4:2-FTS	109		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C2-6:2-FTS	97		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C2-8:2-FTS	92		50 - 200				02/17/25 08:09	02/18/25 14:55	1
13C3 PFHxS	91		50 - 200				02/17/25 08:09	02/18/25 14:55	1

# Isotope Dilution Summary

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

Job ID: 810-137609-1

## 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)
810-137609-1	J18-Rehobeth ARV	91	104	85	86	86	86	85	82
810-137609-2	Y01-Yadkin Finished Water	88	94	86	85	87	86	86	84
810-137609-3	Y02-Yadkin Raw Water	91	101	91	92	88	89	87	85
LCS 810-133374/3-A	Lab Control Sample	86	90	85	85	87	83	84	83
LLCS 810-133374/2-A	Lab Control Sample	87	91	88	87	90	90	89	87
MBL 810-133374/1-A	Method Blank	81	86	81	80	84	86	83	81

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFD <sub>o</sub> A (50-200)	HFPODA (50-200)	C3PFBS (50-200)	C8PFOS (50-200)	42FTS (50-200)	62FTS (50-200)	82FTS (50-200)	C3PFHS (50-200)
810-137609-1	J18-Rehobeth ARV	82	82	94	88	107	96	92	86
810-137609-2	Y01-Yadkin Finished Water	83	83	90	87	95	89	90	89
810-137609-3	Y02-Yadkin Raw Water	87	86	94	90	109	97	92	91
LCS 810-133374/3-A	Lab Control Sample	84	88	86	88	94	97	91	88
LLCS 810-133374/2-A	Lab Control Sample	88	86	90	90	81	90	86	90
MBL 810-133374/1-A	Method Blank	81	79	84	84	75	79	82	84

**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
- PFD<sub>o</sub>A = 13C2 PFD<sub>o</sub>A
- 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: 810-137609-1

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

**Lab Sample ID: MBL 810-133374/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 133458**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 133374**

Analyte	MBL Result	MBL Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.52		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoropentanoic acid (PFPeA)	<0.38		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorohexanoic acid (PFHxA)	<0.42		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoroheptanoic acid (PFHpA)	<0.40		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorooctanoic acid (PFOA)	<0.38		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorononanoic acid (PFNA)	<0.38		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorodecanoic acid (PFDA)	<0.36		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoroundecanoic acid (PFUnA)	<0.38		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorododecanoic acid (PFDoA)	<0.35		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorobutanesulfonic acid (PFBS)	<0.42		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoropentanesulfonic acid (PFPeS)	<0.37		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorohexanesulfonic acid (PFHxS)	<0.39		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.44		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluorooctanesulfonic acid (PFOS)	<0.39		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.45		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.56		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.68		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.57		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.53		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.40		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.45		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
11-Chloroeicosafluoro-3-oxaundecan e-1-sulfonic acid	<0.51		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoro(4-methoxybutanoic acid)	<0.35		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.32		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1
Perfluoro-3,6-dioxaheptanoic acid	<0.93		2.0		ng/L		02/17/25 08:09	02/18/25 12:01	1

Isotope Dilution	MBL %Recovery	MBL Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	81		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C5 PFPeA	86		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C5 PFHxA	81		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C4 PFHpA	80		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C8 PFOA	84		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C9 PFNA	86		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C6 PFDA	83		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C7 PFUnA	81		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C2 PFDoA	81		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C3 HFPO-DA	79		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C3 PFBS	84		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C8 PFOS	84		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C2-4:2-FTS	75		50 - 200	02/17/25 08:09	02/18/25 12:01	1

Eurofins Eaton Analytical South Bend

# QC Sample Results

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

Job ID: 810-137609-1

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

**Lab Sample ID: MBL 810-133374/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 133458**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 133374**

Isotope Dilution	MBL MBL		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2-6:2-FTS	79		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C2-8:2-FTS	82		50 - 200	02/17/25 08:09	02/18/25 12:01	1
13C3 PFHxS	84		50 - 200	02/17/25 08:09	02/18/25 12:01	1

**Lab Sample ID: LCS 810-133374/3-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 133458**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 133374**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanoic acid (PFPeA)	400	422		ng/L		106	70 - 130
Perfluorohexanoic acid (PFHxA)	400	424		ng/L		106	70 - 130
Perfluoroheptanoic acid (PFHpA)	400	415		ng/L		104	70 - 130
Perfluorooctanoic acid (PFOA)	400	415		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	400	416		ng/L		104	70 - 130
Perfluorodecanoic acid (PFDA)	400	415		ng/L		104	70 - 130
Perfluoroundecanoic acid (PFUnA)	400	424		ng/L		106	70 - 130
Perfluorododecanoic acid (PFDoA)	400	420		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	355	371		ng/L		105	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	376	385		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	365	378		ng/L		103	70 - 130
Perfluoroheptanesulfonic acid (PFHpS)	382	399		ng/L		105	70 - 130
Perfluorooctanesulfonic acid (PFOS)	371	386		ng/L		104	70 - 130
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	357	370		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	375	391		ng/L		104	70 - 130
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	381	410		ng/L		108	70 - 130
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	384	378		ng/L		99	70 - 130
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	400	411		ng/L		103	70 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	378	398		ng/L		105	70 - 130
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	374	391		ng/L		105	70 - 130
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	378	382		ng/L		101	70 - 130
Perfluoro(4-methoxybutanoic acid)	400	414		ng/L		103	70 - 130
Perfluoro-3-methoxypropanoic acid (PFMPA)	400	429		ng/L		107	70 - 130
Perfluoro-3,6-dioxaheptanoic acid	400	412		ng/L		103	70 - 130

# QC Sample Results

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

Job ID: 810-137609-1

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

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	86		50 - 200
13C5 PFPeA	90		50 - 200
13C5 PFHxA	85		50 - 200
13C4 PFHpA	85		50 - 200
13C8 PFOA	87		50 - 200
13C9 PFNA	83		50 - 200
13C6 PFDA	84		50 - 200
13C7 PFUnA	83		50 - 200
13C2 PFDoA	84		50 - 200
13C3 HFPO-DA	88		50 - 200
13C3 PFBS	86		50 - 200
13C8 PFOS	88		50 - 200
13C2-4:2-FTS	94		50 - 200
13C2-6:2-FTS	97		50 - 200
13C2-8:2-FTS	91		50 - 200
13C3 PFHxS	88		50 - 200

**Lab Sample ID: LLCS 810-133374/2-A**

**Matrix: Drinking Water**

**Analysis Batch: 133458**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 133374**

Analyte	Spike Added	LLCS LLCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Perfluorobutanoic acid (PFBA)	2.00	1.79	J	ng/L		89	50 - 150
Perfluoropentanoic acid (PFPeA)	2.00	1.81	J	ng/L		91	50 - 150
Perfluorohexanoic acid (PFHxA)	2.00	1.86	J	ng/L		93	50 - 150
Perfluoroheptanoic acid (PFHpA)	2.00	2.00		ng/L		100	50 - 150
Perfluorooctanoic acid (PFOA)	2.00	1.80	J	ng/L		90	50 - 150
Perfluorononanoic acid (PFNA)	2.00	1.75	J	ng/L		88	50 - 150
Perfluorodecanoic acid (PFDA)	2.00	1.86	J	ng/L		93	50 - 150
Perfluoroundecanoic acid (PFUnA)	2.00	1.90	J	ng/L		95	50 - 150
Perfluorododecanoic acid (PFDoA)	2.00	1.99	J	ng/L		100	50 - 150
Perfluorobutanesulfonic acid (PFBS)	1.78	1.52	J	ng/L		86	50 - 150
Perfluoropentanesulfonic acid (PFPeS)	1.88	1.60	J	ng/L		85	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	1.83	1.58	J	ng/L		87	50 - 150
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.57	J	ng/L		82	50 - 150
Perfluorooctanesulfonic acid (PFOS)	1.86	1.69	J	ng/L		91	50 - 150
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	1.78	1.62	J	ng/L		91	50 - 150
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	1.88	1.65	J	ng/L		88	50 - 150
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	1.90	1.74	J	ng/L		91	50 - 150
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	1.92	1.77	J	ng/L		92	50 - 150
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	2.00	1.79	J	ng/L		89	50 - 150
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	1.75	J	ng/L		92	50 - 150

Eurofins Eaton Analytical South Bend

# QC Sample Results

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

Job ID: 810-137609-1

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

**Lab Sample ID: LLCS 810-133374/2-A**

**Matrix: Drinking Water**

**Analysis Batch: 133458**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 133374**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.87	1.55	J	ng/L		83	50 - 150
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	1.89	1.65	J	ng/L		87	50 - 150
Perfluoro(4-methoxybutanoic acid)	2.00	1.68	J	ng/L		84	50 - 150
Perfluoro-3-methoxypropanoic acid (PFMPA)	2.00	1.82	J	ng/L		91	50 - 150
Perfluoro-3,6-dioxaheptanoic acid	2.00	1.73	J	ng/L		86	50 - 150

Isotope Dilution	LLCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	87		50 - 200
13C5 PFPeA	91		50 - 200
13C5 PFHxA	88		50 - 200
13C4 PFHpA	87		50 - 200
13C8 PFOA	90		50 - 200
13C9 PFNA	90		50 - 200
13C6 PFDA	89		50 - 200
13C7 PFUnA	87		50 - 200
13C2 PFDoA	88		50 - 200
13C3 HFPO-DA	86		50 - 200
13C3 PFBS	90		50 - 200
13C8 PFOS	90		50 - 200
13C2-4:2-FTS	81		50 - 200
13C2-6:2-FTS	90		50 - 200
13C2-8:2-FTS	86		50 - 200
13C3 PFHxS	90		50 - 200

# QC Association Summary

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

Job ID: 810-137609-1

## LCMS

### Prep Batch: 133374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-137609-1	J18-Rehobeth ARV	Total/NA	Drinking Water	533	
810-137609-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	
810-137609-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	
MBL 810-133374/1-A	Method Blank	Total/NA	Drinking Water	533	
LCS 810-133374/3-A	Lab Control Sample	Total/NA	Drinking Water	533	
LLCS 810-133374/2-A	Lab Control Sample	Total/NA	Drinking Water	533	

### Analysis Batch: 133458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
810-137609-1	J18-Rehobeth ARV	Total/NA	Drinking Water	533	133374
810-137609-2	Y01-Yadkin Finished Water	Total/NA	Drinking Water	533	133374
810-137609-3	Y02-Yadkin Raw Water	Total/NA	Drinking Water	533	133374
MBL 810-133374/1-A	Method Blank	Total/NA	Drinking Water	533	133374
LCS 810-133374/3-A	Lab Control Sample	Total/NA	Drinking Water	533	133374
LLCS 810-133374/2-A	Lab Control Sample	Total/NA	Drinking Water	533	133374



# Lab Chronicle

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

Job ID: 810-137609-1

## Client Sample ID: J18-Rehobeth ARV

Lab Sample ID: 810-137609-1

Date Collected: 02/11/25 09:51

Matrix: Drinking Water

Date Received: 02/12/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			133374	MR	EA SB	02/17/25 08:09
Total/NA	Analysis	533		1	133458	MH	EA SB	02/18/25 14:42

## Client Sample ID: Y01-Yadkin Finished Water

Lab Sample ID: 810-137609-2

Date Collected: 02/11/25 11:07

Matrix: Drinking Water

Date Received: 02/12/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			133374	MR	EA SB	02/17/25 08:09
Total/NA	Analysis	533		1	133458	MH	EA SB	02/18/25 13:48

## Client Sample ID: Y02-Yadkin Raw Water

Lab Sample ID: 810-137609-3

Date Collected: 02/11/25 11:02

Matrix: Drinking Water

Date Received: 02/12/25 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	533			133374	MR	EA SB	02/17/25 08:09
Total/NA	Analysis	533		1	133458	MH	EA SB	02/18/25 14:55

**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: 810-137609-1

## 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	07-31-25

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-Chloroeicosafuoro-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	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
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	Perfluorobutanesulfonic acid (PFBS)
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	Perfluorohexanesulfonic acid (PFHxS)
533	533	Drinking Water	Perfluorohexanoic acid (PFHxA)
533	533	Drinking Water	Perfluorononanoic acid (PFNA)
533	533	Drinking Water	Perfluorooctanesulfonic acid (PFOS)
533	533	Drinking Water	Perfluorooctanoic acid (PFOA)
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: 810-137609-1

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: 810-137609-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
810-137609-1	J18-Rehobeth ARV	Drinking Water	02/11/25 09:51	02/12/25 09:45
810-137609-2	Y01-Yadkin Finished Water	Drinking Water	02/11/25 11:07	02/12/25 09:45
810-137609-3	Y02-Yadkin Raw Water	Drinking Water	02/11/25 11:02	02/12/25 09:45

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# Eurofins Eaton Analytical South Bend

## Chain of Custody Record

110 S Hill Street  
 South Bend, IN 46617  
 Phone: 574-233-4777 Fax: 574-2

### Client Information

810-137809 COC



Client Contact:  
 Justin Huntley

Phone: 704-506-9653

Company:  
 Union County Water

Sampler: Deryl Ennis  
 PWSID: 704-506-9653

Lab PM: Matthewis, Joe  
 E-Mail: Joe.Matthewis@el.eurofinsus.com

Carrier Tracking No(s):  
 State of Origin:

COC No: 810-52862-6174.1  
 Page: Page 1 of 1  
 Job #:

Address:  
 500 N Main St.

City:  
 Monroe

State, Zip:  
 NC, 28112

Phone:  
 704-289-3307(Tel)

Due Date Requested:  
 TAT Requested (days):

Compliance Project:  Yes  No

PO #:  
 Purchase Order not required

Project #:  
 81004979

Project Name:  
 PFAS - 533

Site:

Field Filtered Sample (Yes or No)  
 Perform MS/MSD (Yes or No)  
 533 - (MOD) Local Method

Preservation Codes:  
 1 - NH4 Acetate

Project Name:  
 PFAS - 533

Site:

Project #:  
 81004979

SSOW#:

Field Filtered Sample (Yes or No)  
 Perform MS/MSD (Yes or No)  
 533 - (MOD) Local Method

Sample Identification

Sample Date

Sample Time

Sample Type (G=Comp, G=grab)

Matrix (W=water, S=solid, O=other, A=air)

Preservation Code:

Field Filtered Sample (Yes or No)  
 Perform MS/MSD (Yes or No)  
 533 - (MOD) Local Method

Total Number of containers

Special Instructions/Note:

518 - Rehobeth ARV  
 2/1/25 0951 G drinking Water  
 901 - Yodkin Finished Water  
 2/1/25 1107 G drinking Water  
 902 - Yodkin Raw Water  
 2/1/25 1102 G drinking Water

Initial Temp: 24.2  
 Corrected Temp: 24.2  
 IR Gun #

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Empty Kit Relinquished by:

Date:

Time:

Method of Shipment:

Relinquished by:

Date/Time: 2-11-25 1213

Company: ucw

Received by:

Date/Time: 02-02-2025

Company: 0945

Relinquished by:

Date/Time:

Company:

Received by:

Date/Time: 02-15-2025

Company:

Custody Seals Intact:  Yes  No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

## Login Sample Receipt Checklist

Client: Union County Water

Job Number: 810-137609-1

**Login Number: 137609**

**List Source: Eurofins Eaton Analytical South Bend**

**List Number: 1**

**Creator: Moore, Gary**

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	
Container provided by EEA	True	

