

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mike Lankford  
Gadsden Water Works  
515 Albert Rains Blvd  
Gadsden, Alabama 35901

Generated 4/17/2025 9:44:13 AM

## JOB DESCRIPTION

PFAS

## JOB NUMBER

810-143918-1

## Case Narrative

Client: Gadsden Water Works  
Project: PFAS

Job ID: 810-143918-1

**Job ID: 810-143918-1**

**Eurofins Eaton Analytical South Bend**

### Job Narrative 810-143918-1

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 4/9/2025 9:15 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 537.1\_DW\_PREC: Surrogate recovery for sample Gadsden RW (810-143918-1) was outside of method 537.1 acceptance limits for one compound. d5-NEtFOSAA was recovered at 29%. Limits 70-130%. Low surrogate recovery is likely due to matrix interference, as visible sediment was noted in the sample by extractionist.

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

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# Client Sample Results

Client: Gadsden Water Works  
Project/Site: PFAS

Job ID: 810-143918-1

**Client Sample ID: Gadsden RW**

**Lab Sample ID: 810-143918-1**

Date Collected: 04/07/25 18:00

Matrix: Drinking Water

Date Received: 04/09/25 09:15

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>0.000026</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.000022</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.000024</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Perfluorodecanoic acid (PFDA)</b>	<b>0.0000019</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>0.0000030</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.000067</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.0000076</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>0.0000027</b>		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.000019	mg/L		04/10/25 07:45	04/11/25 06:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C2 PFHxA	91		70 - 130			04/10/25 07:45	04/11/25 06:25	1
13C2 PFDA	80		70 - 130			04/10/25 07:45	04/11/25 06:25	1
13C3 HFPO-DA	91		70 - 130			04/10/25 07:45	04/11/25 06:25	1
d5-NEtFOSAA	29	S1-	70 - 130			04/10/25 07:45	04/11/25 06:25	1

**Client Sample ID: Gadsden RW FTB**

**Lab Sample ID: 810-143918-2**

Date Collected: 04/07/25 18:05

Matrix: Drinking Water

Date Received: 04/09/25 09:15

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorohexanoic acid (PFHxA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorooctanoic acid (PFOA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorobutanesulfonic acid (PFBS)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluoroheptanoic acid (PFHpA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.000019	mg/L		04/14/25 08:22	04/14/25 21:47	1

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# Client Sample Results

Client: Gadsden Water Works  
Project/Site: PFAS

Job ID: 810-143918-1

**Client Sample ID: Gadsden RW FTB**

**Lab Sample ID: 810-143918-2**

Date Collected: 04/07/25 18:05

Matrix: Drinking Water

Date Received: 04/09/25 09:15

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		04/14/25 08:22	04/14/25 21:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C2 PFHxA	95		70 - 130			04/14/25 08:22	04/14/25 21:47	1
13C2 PFDA	98		70 - 130			04/14/25 08:22	04/14/25 21:47	1
13C3 HFPO-DA	87		70 - 130			04/14/25 08:22	04/14/25 21:47	1
d5-NEtFOSAA	100		70 - 130			04/14/25 08:22	04/14/25 21:47	1

**Client Sample ID: Gadsden FW**

**Lab Sample ID: 810-143918-3**

Date Collected: 04/08/25 10:00

Matrix: Drinking Water

Date Received: 04/09/25 09:15

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorohexanoic acid (PFHxA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorooctanoic acid (PFOA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorobutanesulfonic acid (PFBS)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluoroheptanoic acid (PFHpA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		04/10/25 07:45	04/11/25 06:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C2 PFHxA	101		70 - 130			04/10/25 07:45	04/11/25 06:57	1
13C2 PFDA	95		70 - 130			04/10/25 07:45	04/11/25 06:57	1

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# Client Sample Results

Client: Gadsden Water Works  
Project/Site: PFAS

Job ID: 810-143918-1

**Client Sample ID: Gadsden FW**

**Lab Sample ID: 810-143918-3**

Date Collected: 04/08/25 10:00

Matrix: Drinking Water

Date Received: 04/09/25 09:15

**Method: EPA 537.1 - Perfluorinated Alkyl Acids (LC/MS) (Continued)**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C3 HFPO-DA	92		70 - 130	04/10/25 07:45	04/11/25 06:57	1
d5-NEtFOSAA	96		70 - 130	04/10/25 07:45	04/11/25 06:57	1





810-143918 Chain of Custody

# Chain of Custody Record

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Sample #: **Daniel Clark**  
Phone: **256-543-2884**

Lab P#: **Trowbridge, Nathan**  
E-Mail: **Nathan.Trowbridge@et.eurofins.com**

Carrier Tracking No: \_\_\_\_\_  
State of Origin: \_\_\_\_\_

QC No: **810-47228-10392.1**  
Page: **1 of 1**

Company: **Gadsden Water Works**  
Address: **515 Albert Reims Blvd**  
City: **Gadsden**  
State Zip: **AL, 35901**

Due Date Requested: \_\_\_\_\_  
TAT Requested (days): \_\_\_\_\_  
Compliance Project:  Yes  No

PO #: \_\_\_\_\_  
Purchase Order not required

Project #: \_\_\_\_\_  
Project Name: **PFAS**

SSOW: \_\_\_\_\_  
Site: **Gadsden**

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers
<b>Gadsden RW</b>	<b>4/7/25</b>	<b>1800</b>	<b>G</b>	<b>Drinking Water</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>2</b>
<b>Gadsden FW</b>	<b>4/8/25</b>	<b>1600</b>	<b>G</b>	<b>Drinking Water</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>2</b>
<b>Trip Blank</b>	<b>4/8/25</b>	<b>1005</b>		<b>Drinking Water</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>1</b>
<b>Trip Blank</b>	<b>4/7/25</b>	<b>1805</b>		<b>Drinking Water</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>1</b>

537.1\_DW\_PREC - PFC18

Special Instructions/Note:  
**RW NTU - 29**  
**FW NTU - .077**  
**pH - 7.0**  
**pH - 7.3**

Initial Temp: 1.0  
Corrected Temp: 0.3  
IR Gun # 18

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

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

Relinquished by: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Method of Shipment: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Company: **Gadsden**

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Company: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Company: \_\_\_\_\_

Relinquished by: **Daniel Clark to cooler**

Date/Time: **4/8/25**

Date/Time: **1015**

Company: **Gadsden**

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Company: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Company: \_\_\_\_\_

Received by: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Custody Seals Intact:  Yes  No

Custody Seal No: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Gadsden Water Works

Job Number: 810-143918-1

Login Number: 143918

List Source: Eurofins Eaton Analytical South Bend

List Number: 1

Creator: DePriest, Kellie

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	

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