

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

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

Generated 11/13/2023 8:26:45 AM

JOB DESCRIPTION

PFAS

JOB NUMBER

810-82261-1

Case Narrative

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-82261-1

Job ID: 810-82261-1

Laboratory: Eurofins Eaton Analytical South Bend

Narrative

Job Narrative 810-82261-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 10/20/2023 9:00 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 2.0°C

PFAS

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

Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-82261-1

Client Sample ID: GADSDEN-RW

Lab Sample ID: 810-82261-1

Date Collected: 10/18/23 20:15

Matrix: Drinking Water

Date Received: 10/20/23 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000030		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorohexanoic acid (PFHxA)	0.000026		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorooctanoic acid (PFOA)	0.000026		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorodecanoic acid (PFDA)	0.000028		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorohexanesulfonic acid (PFHxS)	0.000036		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorobutanesulfonic acid (PFBS)	0.000089		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluoroheptanoic acid (PFHpA)	0.0000096		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorononanoic acid (PFNA)	0.0000024		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		11/01/23 06:53	11/02/23 06:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	92		70 - 130			11/01/23 06:53	11/02/23 06:58	1
13C2 PFDA	103		70 - 130			11/01/23 06:53	11/02/23 06:58	1
13C3 HFPO-DA	92		70 - 130			11/01/23 06:53	11/02/23 06:58	1
d5-NEtFOSAA	104		70 - 130			11/01/23 06:53	11/02/23 06:58	1

Client Sample ID: GADSDEN-FW

Lab Sample ID: 810-82261-2

Date Collected: 10/19/23 11:00

Matrix: Drinking Water

Date Received: 10/20/23 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorohexanoic acid (PFHxA)	0.000016		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorooctanoic acid (PFOA)	0.000017		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.000021		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorobutanesulfonic acid (PFBS)	0.000063		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluoroheptanoic acid (PFHpA)	0.0000061		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1

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Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-82261-1

Client Sample ID: GADSDEN-FW

Lab Sample ID: 810-82261-2

Date Collected: 10/19/23 11:00

Matrix: Drinking Water

Date Received: 10/20/23 09:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		10/31/23 09:13	11/01/23 00:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	103		70 - 130			10/31/23 09:13	11/01/23 00:51	1
13C2 PFDA	97		70 - 130			10/31/23 09:13	11/01/23 00:51	1
13C3 HFPO-DA	96		70 - 130			10/31/23 09:13	11/01/23 00:51	1
d5-NEtFOSAA	92		70 - 130			10/31/23 09:13	11/01/23 00:51	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 810-82261-3

Date Collected: 10/19/23 11:00

Matrix: Drinking Water

Date Received: 10/20/23 09:00

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		11/02/23 08:11	11/05/23 14:46	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorohexanoic acid (PFHxA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorooctanoic acid (PFOA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluoroheptanoic acid (PFHpA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		11/02/23 08:11	11/05/23 14:46	1

Eurofins Eaton Analytical South Bend



810-82261 Chain of Custody

Company: Gadsden Water Works

Address: 515 Albert Pains Blvd
City: Gadsden
State, Zip: AL, 35901

Phone: blankford@gadsdenwater.org
Project Name: PFAS

Site: GUWUSIS

Sampler: MICHAEL BROOKINS
Phone: (256) 543-2884
Lab Pk#: Trowbridge, Nathan
E-Mail: Nathan.Trowbridge@et.eurofins.com

Carrier Tracking No(s):
State of Origin:

COC No: 810-82155-10392.1
Page: Page 1 of 1
Job #:

Chain of Custody Record



Analysis Requested

Field Filtered Sample (Yes or No) Y
Perform MS/MSD (Yes or No) Y
537.1_DW_PREC - PFC18

Total Number of Containers 18

Special Instructions/Note:
TURBIDITY

- Preservation Codes:
- A - HCL
 - B - NaOH
 - C - Zn Acetate
 - D - Nitric Acid
 - E - Nitric Acid
 - F - MeOH
 - G - Amchlor
 - H - Ascorbic Acid
 - I - Ice
 - J - DI Water
 - K - EDTA
 - L - EDA
 - M - Hexane
 - N - None
 - O - AsN2O2
 - P - Na2CO3
 - Q - Na2SO3
 - R - Na2S2O3
 - S - H2SO4
 - T - TSP Dodecahydrate
 - U - Acetone
 - V - MCAA
 - W - pH 4.5
 - X - Trauma
 - Z - other (Specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Overhead, Bacteria, A&M)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note
GADSDEN - RW	10/18/23	0615	G	Drinking Water	W-X	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	18	TURBIDITY
GADSDEN - RW	10/19/23	1100	G	Drinking Water	W-X	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	18	TURBIDITY
TRIP BLANK				Drinking Water	W-X	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	18	TURBIDITY

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

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

Date:

Time:

Method of Shipment

Relinquished by: P. BROOKINS to COOPER
Date/Time: 10/19/23
Company: GUWUSIS

Received by: [Signature]
Date/Time: 10/20/23
Company: [Signature]

Received by: [Signature]
Date/Time: 10/20/23
Company: [Signature]

Custody Seats Intact: A Yes A No
Custody Seal No.:

Special Instructions/OC Requirements:
Cooler Temperature(s) °C and Other Remarks: