



ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/23/2023 7:41:46 AM

JOB DESCRIPTION

PFAS

JOB NUMBER

810-84567-1

Case Narrative

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-84567-1

Job ID: 810-84567-1

Laboratory: Eurofins Eaton Analytical South Bend

Narrative

Job Narrative 810-84567-1

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 11/9/2023 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 0.8°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: 810-84567-1

Client Sample ID: Gadsden-RW

Lab Sample ID: 810-84567-1

Date Collected: 11/07/23 20:10

Matrix: Drinking Water

Date Received: 11/09/23 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000025		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorohexanoic acid (PFHxA)	0.000024		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorooctanoic acid (PFOA)	0.000026		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorodecanoic acid (PFDA)	0.000023		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorohexanesulfonic acid (PFHxS)	0.000033		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorobutanesulfonic acid (PFBS)	0.000082		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluoroheptanoic acid (PFHpA)	0.000092		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorononanoic acid (PFNA)	0.000021		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	96		70 - 130			11/21/23 07:25	11/22/23 05:11	1
13C2 PFDA	91		70 - 130			11/21/23 07:25	11/22/23 05:11	1
13C3 HFPO-DA	95		70 - 130			11/21/23 07:25	11/22/23 05:11	1
d5-NEtFOSAA	103		70 - 130			11/21/23 07:25	11/22/23 05:11	1

Client Sample ID: Gadsden-FW

Lab Sample ID: 810-84567-2

Date Collected: 11/08/23 11:00

Matrix: Drinking Water

Date Received: 11/09/23 09:30

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	0.000018		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluorohexanoic acid (PFHxA)	0.000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluorooctanoic acid (PFOA)	0.000018		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluorohexanesulfonic acid (PFHxS)	0.000022		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluorobutanesulfonic acid (PFBS)	0.000061		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluoroheptanoic acid (PFHpA)	0.000067		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1

Eurofins Eaton Analytical South Bend

Client Sample Results

Client: Gadsden Water Works
Project/Site: PFAS

Job ID: 810-84567-1

Client Sample ID: Gadsden-FW

Lab Sample ID: 810-84567-2

Date Collected: 11/08/23 11:00

Matrix: Drinking Water

Date Received: 11/09/23 09:30

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		11/20/23 07:12	11/20/23 18:55	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		11/20/23 07:12	11/20/23 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		70 - 130			11/20/23 07:12	11/20/23 18:55	1
13C2 PFDA	96		70 - 130			11/20/23 07:12	11/20/23 18:55	1
13C3 HFPO-DA	92		70 - 130			11/20/23 07:12	11/20/23 18:55	1
d5-NEtFOSAA	94		70 - 130			11/20/23 07:12	11/20/23 18:55	1

Client Sample ID: FTB

Lab Sample ID: 810-84567-3

Date Collected: 11/07/23 00:00

Matrix: Drinking Water

Date Received: 11/09/23 09:30

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		11/21/23 07:25	11/22/23 05:01	1
Perfluoroundecanoic acid (PFUnA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorohexanoic acid (PFHxA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorododecanoic acid (PFDoA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorooctanoic acid (PFOA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorodecanoic acid (PFDA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorobutanesulfonic acid (PFBS)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluoroheptanoic acid (PFHpA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorononanoic acid (PFNA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorotetradecanoic acid (PFTeDA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Perfluorotridecanoic acid (PFTrDA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0000019		0.0000019	mg/L		11/21/23 07:25	11/22/23 05:01	1

Client Information			Sampler			Lab PM			Carrier Tracking No(s)			COC No					
Gadsden Water Works			MICHAEL BROOKINS			Trowbridge, Nathan			810-16707-5449.1			810-16707-5449.1					
515 Albert Rains Blvd			Phone: (256) 543-2884			E-Mail: Nathan.Trowbridge@et.eurofins.com			State of Origin:			Page 1 of 1					
Gadsden			TAT Requested (days):			Analysis Requested			Job #			Preservation Codes:					
State, Zip: AL, 35901			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No			Purchase Order not required			A - HCL			M - Hexane					
Phone:			PO #:			Purchase Order not required			B - NaOH			N - None					
Email: mlankford@gadsdenwater.org			WOC #:			537.1_DW_PREC - PFC18			C - Zn Acetate			O - AsNaO2					
Project Name: PFAS-533			Project #: 81004291			Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>			D - Nitric Acid			P - Na2O4S					
Site: GADSDEN			SSOW#:			Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>			E - NaHSO4			Q - Na2SO3					
						Total Number of containers <input checked="" type="checkbox"/>			F - MeOH			R - Na2S2O3					
						Special Instructions/Note: Turbidity			G - Amnher			S - H2SO4					
									H - Ascorbic Acid			T - TSP Dodecahydrate					
									I - Ice			U - Acetone					
									J - DI Water			V - MCAA					
									K - EDTA			W - pH 4.5					
									L - EDTA			Y - Trizma					
									Other: Z - other (specify)								
Sample Identification			Sample Date			Sample Time			Sample Type (C=Comp, G=grab)			Matrix (Water, Seawater, Urine, etc.)			Preservation Code		
GADSDEN - RW			11/7/23			2010			G			Drinking Water			MNX		
GADSDEN - FW			11/8/23			1100			G			Drinking Water			MNX		
TRIP BLANK												Drinking Water			MNX		
810-84567 Chain of Custody																	
Possible Hazard Identification			Flammable <input type="checkbox"/>			Skin Irritant <input type="checkbox"/>			Poison B <input type="checkbox"/>			Unknown <input type="checkbox"/>			Radiological <input type="checkbox"/>		
Deliverable Requested: I, II, III, IV, Other (Specify)																	
Empty Kit Relinquished by:			Date: 11/8/23			Time: 1:30			Method of Shipment:								
Relinquished by: M. BROOKINS to COOKER			Date/Time: 11/8/23			Company: EuroSB			Received by: KOE			Date/Time: 11-9-23			Company: EuroSB		
Relinquished by:			Date/Time:			Company:			Received by:			Date/Time:			Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No.:						Cooler Temperature(s) °C and Other Remarks:								

Login Sample Receipt Checklist

Client: Gadsden Water Works

Job Number: 810-84567-1

Login Number: 84567

List Number: 1

Creator: DePriest, Kellie

List Source: Eurofins Eaton Analytical South Bend

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	