

## ANALYTICAL REPORT

Eurofins TestAmerica, Denver  
4955 Yarrow Street  
Arvada, CO 80002  
Tel: (303)736-0100

Laboratory Job ID: 280-155798-1  
Client Project/Site: Gadsden PFC Sampling

For:  
Gadsden Water Works  
515 Albert Rains Blvd  
Gadsden, Alabama 35901

Attn: Mike Lankford



Authorized for release by:  
12/1/2021 3:37:37 PM

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### LINKS

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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Case Narrative

Client: Gadsden Water Works  
Project/Site: Gadsden PFC Sampling

Job ID: 280-155798-1

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**Laboratory: Eurofins TestAmerica, Denver**

## Narrative

### CASE NARRATIVE

**Client: Gadsden Water Works**

**Project: Gadsden PFC Sampling**

**Report Number: 280-155798-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### RECEIPT

The samples were received on 11/18/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.4 C.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): Gadsden RW (280-155798-1). The container labels list a collection time of 2014, while the COC lists 2015. The sample time was logged per the COC.

### PERFLUORINATED HYDROCARBONS (PFC)

Samples Gadsden RW (280-155798-1) and Gadsden FW (280-155798-2) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared on 11/23/2021 and analyzed on 11/24/2021.

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

# Detection Summary

Client: Gadsden Water Works  
Project/Site: Gadsden PFC Sampling

Job ID: 280-155798-1

## Client Sample ID: Gadsden RW

Lab Sample ID: 280-155798-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.095		0.019	0.0078	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.015	J	0.019	0.0093	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.030		0.019	0.0075	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.027	J	0.028	0.013	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.024		0.019	0.0093	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.050		0.028	0.010	ug/L	1		DV-LC-0012	Total/NA

## Client Sample ID: Gadsden FW

Lab Sample ID: 280-155798-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.048		0.016	0.0065	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.014	J	0.016	0.0063	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.018	J	0.024	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.012	J	0.016	0.0078	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.026		0.024	0.0086	ug/L	1		DV-LC-0012	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

# Client Sample Results

Client: Gadsden Water Works  
Project/Site: Gadsden PFC Sampling

Job ID: 280-155798-1

## Method: DV-LC-0012 - Fluorinated Alkyl Substances

**Client Sample ID: Gadsden RW**

**Date Collected: 11/16/21 20:15**

**Date Received: 11/18/21 09:00**

**Lab Sample ID: 280-155798-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.095</b>		0.019	0.0078	ug/L		11/23/21 15:46	11/24/21 09:42	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>0.015</b>	J	0.019	0.0093	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluorodecanesulfonic acid (PFDS)	0.0087	U	0.019	0.0087	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluorodecanoic acid (PFDA)	0.0074	U	0.019	0.0074	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluorododecanoic acid (PFDoA)	0.014	U	0.028	0.014	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluoroheptanoic acid (PFHpA)	0.012	U	0.028	0.012	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluorohexanesulfonic acid (PFHxS)	0.0066	U	0.028	0.0066	ug/L		11/23/21 15:46	11/24/21 09:42	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.030</b>		0.019	0.0075	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluorononanoic acid (PFNA)	0.0071	U	0.038	0.0071	ug/L		11/23/21 15:46	11/24/21 09:42	1
<b>Perfluorooctane sulfonate (PFOS)</b>	<b>0.027</b>	J	0.028	0.013	ug/L		11/23/21 15:46	11/24/21 09:42	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.024</b>		0.019	0.0093	ug/L		11/23/21 15:46	11/24/21 09:42	1
<b>Perfluoropentanoic acid (PFPA)</b>	<b>0.050</b>		0.028	0.010	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluorotetradecanoic acid (PFTeA)	0.014	U	0.028	0.014	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluorotridecanoic acid (PFTriA)	0.017	U	0.038	0.017	ug/L		11/23/21 15:46	11/24/21 09:42	1
Perfluoroundecanoic acid (PFUnA)	0.0065	U	0.019	0.0065	ug/L		11/23/21 15:46	11/24/21 09:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C8 PFOA	105		60 - 155				11/23/21 15:46	11/24/21 09:42	1
13C8 PFOS	105		45 - 130				11/23/21 15:46	11/24/21 09:42	1

**Client Sample ID: Gadsden FW**

**Date Collected: 11/17/21 11:00**

**Date Received: 11/18/21 09:00**

**Lab Sample ID: 280-155798-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.048</b>		0.016	0.0065	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorobutanoic acid (PFBA)	0.0078	U	0.016	0.0078	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorodecanesulfonic acid (PFDS)	0.0073	U	0.016	0.0073	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorodecanoic acid (PFDA)	0.0062	U	0.016	0.0062	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.024	0.012	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluoroheptanoic acid (PFHpA)	0.010	U	0.024	0.010	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.0055	U	0.024	0.0055	ug/L		11/23/21 15:46	11/24/21 09:51	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.014</b>	J	0.016	0.0063	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorononanoic acid (PFNA)	0.0059	U	0.032	0.0059	ug/L		11/23/21 15:46	11/24/21 09:51	1
<b>Perfluorooctane sulfonate (PFOS)</b>	<b>0.018</b>	J	0.024	0.011	ug/L		11/23/21 15:46	11/24/21 09:51	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.012</b>	J	0.016	0.0078	ug/L		11/23/21 15:46	11/24/21 09:51	1
<b>Perfluoropentanoic acid (PFPA)</b>	<b>0.026</b>		0.024	0.0086	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.024	0.012	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluorotridecanoic acid (PFTriA)	0.014	U	0.032	0.014	ug/L		11/23/21 15:46	11/24/21 09:51	1
Perfluoroundecanoic acid (PFUnA)	0.0055	U	0.016	0.0055	ug/L		11/23/21 15:46	11/24/21 09:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C8 PFOA	104		60 - 155				11/23/21 15:46	11/24/21 09:51	1
13C8 PFOS	107		45 - 130				11/23/21 15:46	11/24/21 09:51	1

**Client Information**  
 Sampler: Lab PM: Sara, Betsy A  
 Phone: Sara, Betsy A  
 E-Mail: Betsy.Sara@Eurofinset.com  
 Company: Gadsden Water Works  
 Address: 515 Albert Rains Blvd  
 City: Gadsden  
 State, Zip: AL, 35901  
 Phone:  
 Email: mlankford@gadsdenwater.org  
 Project Name: Gadsden PFC Sampling  
 Site: 28020645 "PFC Waters"
 SOW#:

**Analysis Requested**  
 Due Date Requested:  
 TAT Requested (days):  
 PO #:  
 WO #:  
 Project #:  
 28020645 "PFC Waters"  
 SOW#:

**Sample Identification**

Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFCs	Special Instructions/Note:
Gadsden RW	11/16/21	2015	G	W	X	N	X	Turbidity
Gadsden FW	11/17/21	1100	G	W	N	N	X	

**Preservation Codes:**  
 A - HCL M - Hexane  
 B - NaOH N - None  
 C - Zn Acetate O - AsNaO2  
 D - Nitric Acid P - Na2O4S  
 E - NaHSO4 Q - Na2SO3  
 F - MeOH R - Na2S2O3  
 G - Amchlor S - H2SO4  
 H - Ascorbic Acid T - TSP Dodecahydrate  
 I - Ice U - Acetone  
 J - DI Water V - MCAA  
 K - EDTA W - pH 4.5  
 L - EDA Z - other (specify)  
 Other:

**Special Instructions/Note:**  
 Turbidity

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

**Special Instructions/QC Requirements:**

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

**Empty Kit Relinquished by:**  
 Relinquished by: M.Brookins to cooler  
 Date: 11/17/21  
 Company: GWWSB  
 Relinquished by: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_

**Custody Seal No.: 1301547 - 1301546**  
 Custody Seals Intact:  Yes  No  
 Cooler Temperature(s) °C and Other Remarks:  
 1.4 Full CFM.0

## Login Sample Receipt Checklist

Client: Gadsden Water Works

Job Number: 280-155798-1

Login Number: 155798

List Number: 1

Creator: Dubicki, Adam L

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	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	
Is the Field Sampler's name present on COC?	False	
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	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	