

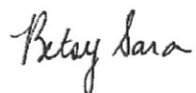
## ANALYTICAL REPORT

Eurofins TestAmerica, Denver  
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Tel: (303)736-0100

Laboratory Job ID: 280-148298-1  
Client Project/Site: Gadsden PFC Sampling

For:  
Gadsden Water Works  
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Gadsden, Alabama 35901

Attn: Mike Lankford



Authorized for release by:  
5/13/2021 4:35:09 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: 280-148298-1

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**Laboratory: Eurofins TestAmerica, Denver**

## Narrative

### CASE NARRATIVE

**Client: Gadsden Water Works**

**Project: Gadsden PFC Sampling**

**Report Number: 280-148298-1**

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 5/6/2021 10:15 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 was 0.8° C.

### PERFLUORINATED HYDROCARBONS (PFC)

Samples GADSDEN-RW (280-148298-1) and GADSDEN-FW (280-148298-2) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared on 05/07/2021 and analyzed on 05/11/2021.

The method required MS/MSD could not be performed for Method PFC due to insufficient sample volume, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

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

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# Detection Summary

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

Job ID: 280-148298-1

## Client Sample ID: GADSDEN-RW

Lab Sample ID: 280-148298-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.077		0.017	0.0069	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.010	J	0.017	0.0082	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.027		0.017	0.0066	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.038		0.025	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.022		0.017	0.0082	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.046		0.025	0.0091	ug/L	1		DV-LC-0012	Total/NA

## Client Sample ID: GADSDEN-FW

Lab Sample ID: 280-148298-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.033		0.016	0.0065	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.011	J	0.016	0.0062	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.014	J	0.024	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.0088	J	0.016	0.0077	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.017	J	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: 280-148298-1

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

**Client Sample ID: GADSDEN-RW**

**Date Collected: 05/04/21 20:24**

**Date Received: 05/06/21 10:15**

**Lab Sample ID: 280-148298-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.077</b>		0.017	0.0069	ug/L		05/07/21 15:54	05/11/21 08:21	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>0.010</b>	<b>J</b>	0.017	0.0082	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluorodecanesulfonic acid (PFDS)	0.0077	U	0.017	0.0077	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluorodecanoic acid (PFDA)	0.0065	U	0.017	0.0065	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.025	0.012	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluoroheptanoic acid (PFHpA)	0.011	U	0.025	0.011	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.0058	U	0.025	0.0058	ug/L		05/07/21 15:54	05/11/21 08:21	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.027</b>		0.017	0.0066	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluorononanoic acid (PFNA)	0.0063	U	0.034	0.0063	ug/L		05/07/21 15:54	05/11/21 08:21	1
<b>Perfluorooctane sulfonate (PFOS)</b>	<b>0.038</b>		0.025	0.011	ug/L		05/07/21 15:54	05/11/21 08:21	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.022</b>		0.017	0.0082	ug/L		05/07/21 15:54	05/11/21 08:21	1
<b>Perfluoropentanoic acid (PFPA)</b>	<b>0.046</b>		0.025	0.0091	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.025	0.012	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluorotridecanoic acid (PFTriA)	0.015	U	0.034	0.015	ug/L		05/07/21 15:54	05/11/21 08:21	1
Perfluoroundecanoic acid (PFUnA)	0.0058	U	0.017	0.0058	ug/L		05/07/21 15:54	05/11/21 08:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	105		60 - 155	05/07/21 15:54	05/11/21 08:21	1
13C8 PFOS	101		45 - 130	05/07/21 15:54	05/11/21 08:21	1

**Client Sample ID: GADSDEN-FW**

**Date Collected: 05/05/21 10:00**

**Date Received: 05/06/21 10:15**

**Lab Sample ID: 280-148298-2**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.033</b>		0.016	0.0065	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorobutanoic acid (PFBA)	0.0077	U	0.016	0.0077	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorodecanesulfonic acid (PFDS)	0.0072	U	0.016	0.0072	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorodecanoic acid (PFDA)	0.0062	U	0.016	0.0062	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorododecanoic acid (PFDoA)	0.012	U	0.024	0.012	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluoroheptanoic acid (PFHpA)	0.010	U	0.024	0.010	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorohexanesulfonic acid (PFHxS)	0.0055	U	0.024	0.0055	ug/L		05/07/21 15:54	05/11/21 08:30	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.011</b>	<b>J</b>	0.016	0.0062	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorononanoic acid (PFNA)	0.0059	U	0.032	0.0059	ug/L		05/07/21 15:54	05/11/21 08:30	1
<b>Perfluorooctane sulfonate (PFOS)</b>	<b>0.014</b>	<b>J</b>	0.024	0.011	ug/L		05/07/21 15:54	05/11/21 08:30	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.0088</b>	<b>J</b>	0.016	0.0077	ug/L		05/07/21 15:54	05/11/21 08:30	1
<b>Perfluoropentanoic acid (PFPA)</b>	<b>0.017</b>	<b>J</b>	0.024	0.0086	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.024	0.012	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluorotridecanoic acid (PFTriA)	0.014	U	0.032	0.014	ug/L		05/07/21 15:54	05/11/21 08:30	1
Perfluoroundecanoic acid (PFUnA)	0.0054	U	0.016	0.0054	ug/L		05/07/21 15:54	05/11/21 08:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	103		60 - 155	05/07/21 15:54	05/11/21 08:30	1
13C8 PFOS	101		45 - 130	05/07/21 15:54	05/11/21 08:30	1

# Surrogate Summary

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

Job ID: 280-148298-1

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

**Prep Type: Total/NA**

**Matrix: Water**

**Percent Surrogate Recovery (Acceptance Limits)**

Lab Sample ID	Client Sample ID	C8PFOA (60-155)	C8PFOS (45-130)
280-148298-1	GADSDEN-RW	105	101
280-148298-2	GADSDEN-FW	103	101
DLCK 280-530729/13	Lab Control Sample	105	106
LCS 280-535343/2-A	Lab Control Sample	103	102
LCSD 280-535343/3-A	Lab Control Sample Dup	103	99
MB 280-535343/1-A	Method Blank	105	101

**Surrogate Legend**

C8PFOA = 13C8 PFOA

C8PFOS = 13C8 PFOS

