Eurofins TestAmerica, Denver 4955 Yarrow Street Arvada, CO 80002

Tel: (303)736-0100

Laboratory Job ID: 280-156646-1

Client Project/Site: Gadsden PFC Sampling

For:

🗱 eurofins

Gadsden Water Works 515 Albert Rains Blvd Gadsden, Alabama 35901

Attn: Mike Lankford

Betsy Sara

Authorized for release by: 12/16/2021 5:13:03 PM

Betsy Sara, Project Manager II (303)736-0189 Betsy.Sara@Eurofinset.com

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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: 280-156646-1

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Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Gadsden Water Works

Project: Gadsden PFC Sampling

Report Number: 280-156646-1

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 12/09/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.3 C.

PERFLUORINATED HYDROCARBONS (PFC)

Samples Gadsden - RW (280-156646-1) and Gadsden - FW (280-156646-2) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared on 12/13/2021 and analyzed on 12/14/2021.

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

Eurofins TestAmerica, Denver 12/16/2021

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Detection Summary

Client: Gadsden Water Works

Project/Site: Gadsden PFC Sampling

Job ID: 280-156646-1

Client Sample ID: Gadsden - RW

Lab Sample ID: 280-156646-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.092		0.017	0.0068	ug/L	1		DV-LC-0012	Total/NA
Perfluorobutanoic acid (PFBA)	0.014	J	0.017	0.0081	ug/L	1		DV-LC-0012	Total/NA
Perfluorohexanoic acid (PFHxA)	0.026		0.017	0.0066	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctane sulfonate (PFOS)	0.023	J	0.025	0.011	ug/L	1		DV-LC-0012	Total/NA
Perfluorooctanoic acid (PFOA)	0.023		0.017	0.0081	ug/L	1		DV-LC-0012	Total/NA
Perfluoropentanoic acid (PFPA)	0.045		0.025	0.0090	ug/L	1		DV-LC-0012	Total/NA

Client Sample ID: Gadsden - FW

Lab Sample ID: 280-156646-2

Result	Qualifier	RL	MDL	Unit		Dil Fac	D	Method	Prep Type
0.046		0.016	0.0065	ug/L		1		DV-LC-0012	Total/NA
0.012	J	0.016	0.0077	ug/L		1		DV-LC-0012	Total/NA
0.013	J	0.016	0.0062	ug/L		1		DV-LC-0012	Total/NA
0.013	J	0.024	0.010	ug/L		1		DV-LC-0012	Total/NA
0.012	J	0.016	0.0077	ug/L		. 1		DV-LC-0012	Total/NA
0.024		0.024	0.0086	ug/L		1		DV-LC-0012	Total/NA
	0.046 0.012 0.013 0.013 0.012	0.012 J 0.013 J 0.013 J 0.012 J	0.046 0.016 0.012 J 0.016 0.013 J 0.016 0.013 J 0.024 0.012 J 0.016	0.046 0.016 0.0065 0.012 J 0.016 0.0077 0.013 J 0.016 0.0062 0.013 J 0.024 0.010 0.012 J 0.016 0.0077	0.046 0.016 0.0065 ug/L 0.012 J 0.016 0.0077 ug/L 0.013 J 0.016 0.0062 ug/L 0.013 J 0.024 0.010 ug/L 0.012 J 0.016 0.0077 ug/L	0.046 0.016 0.0065 ug/L 0.012 J 0.016 0.0077 ug/L 0.013 J 0.016 0.0062 ug/L 0.013 J 0.024 0.010 ug/L 0.012 J 0.016 0.0077 ug/L	0.046 0.016 0.0065 ug/L 1 0.012 J 0.016 0.0077 ug/L 1 0.013 J 0.016 0.0062 ug/L 1 0.013 J 0.024 0.010 ug/L 1 0.012 J 0.016 0.0077 ug/L 1	0.046 0.016 0.0065 ug/L 1 0.012 J 0.016 0.0077 ug/L 1 0.013 J 0.016 0.0062 ug/L 1 0.013 J 0.024 0.010 ug/L 1 0.012 J 0.016 0.0077 ug/L 1	0.046 0.016 0.0065 ug/L 1 DV-LC-0012 0.012 J 0.016 0.0077 ug/L 1 DV-LC-0012 0.013 J 0.016 0.0062 ug/L 1 DV-LC-0012 0.013 J 0.024 0.010 ug/L 1 DV-LC-0012 0.012 J 0.016 0.0077 ug/L 1 DV-LC-0012

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Gadsden Water Works

Project/Site: Gadsden PFC Sampling

Job ID: 280-156646-1

Method: DV-LC-0012 - Fluorinated Alkyl Substances

Client Sample ID: Gadsden - RW Date Collected: 12/07/21 20:15 Date Received: 12/09/21 10:10

Lab Sample ID: 280-156646-1

Matrix: Water

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Perfluorobutanesulfonic acid	0.092		0.017	0.0068	ug/L		12/13/21 14:14	12/14/21 10:20	1
	(PFBS)									
	Perfluorobutanoic acid (PFBA)	0.014	J	0.017	0.0081	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorodecanesulfonic acid (PFDS)	0.0076	U	0.017	0.0076	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorodecanoic acid (PFDA)	0.0065	U	0.017	0.0065	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorododecanoic acid (PFDoA)	0.012	U	0.025	0.012	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluoroheptanoic acid (PFHpA)	0.011	U	0.025	0.011	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorohexanesulfonic acid (PFHxS)	0.0058	U	0.025	0.0058	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorohexanoic acid (PFHxA)	0.026		0.017	0.0066	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorononanoic acid (PFNA)	0.0062	U	0.033	0.0062	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorooctane sulfonate (PFOS)	0.023	J	0.025	0.011	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorooctanoic acid (PFOA)	0.023		0.017	0.0081	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluoropentanoic acid (PFPA)	0.045		0.025	0.0090	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorotetradecanoic acid (PFTeA)	0.012	U	0.025	0.012	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluorotridecanoic acid (PFTriA)	0.015	U	0.033	0.015	ug/L		12/13/21 14:14	12/14/21 10:20	1
	Perfluoroundecanoic acid (PFUnA)	0.0057	U	0.017	0.0057	ug/L		12/13/21 14:14	12/14/21 10:20	1
П										

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 13C8 PFOA 102 60 - 155 12/13/21 14:14 12/14/21 10:20 13C8 PFOS 103 45 - 130 12/13/21 14:14 12/14/21 10:20

Client Sample ID: Gadsden - FW Date Collected: 12/08/21 11:00

13C8 PFOS

Lab Sample ID: 280-156646-2

Matrix: Water

							IVIALITA	. Water
	Qualifier	DI	MDI	l lmi4		Drawanad	Analysed	DilE
Result	Qualifier					Prepared	Analyzed	Dil Fac
0.046		0.016	0.0065	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.012	J	0.016	0.0077	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.0072	U	0.016	0.0072	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.0062	U	0.016	0.0062	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.012	U	0.024	0.012	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.010	U	0.024	0.010	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.0055	U	0.024	0.0055	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.013	J	0.016	0.0062	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.0059	U	0.032	0.0059	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.013	J	0.024	0.010	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.012	J	0.016	0.0077	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.024		0.024	0.0086	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.012	U	0.024	0.012	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.014	U	0.032	0.014	ug/L		12/13/21 14:14	12/14/21 10:29	1
0.0054	U	0.016	0.0054	ug/L		12/13/21 14:14	12/14/21 10:29	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
103		60 - 155				12/13/21 14:14	12/14/21 10:29	1
	0.046 0.012 0.0072 0.0062 0.012 0.010 0.0055 0.013 0.0059 0.013 0.012 0.014 0.0054	Result Qualifier	Result 0.046 Qualifier Qualifier RL 0.016 0.012 J 0.016 0.016 0.0072 U 0.016 0.016 0.0062 U 0.016 0.024 0.010 U 0.024 0.024 0.013 J 0.016 0.024 0.0059 U 0.032 0.013 J 0.024 0.012 J 0.016 0.024 0.012 U 0.024 0.024 0.012 U 0.024 0.024 0.014 U 0.032 0.0054 0.0054 U 0.016 0.0054 %Recovery Qualifier Limits	Result 0.046 Qualifier Qualifier RL Qualifier Qualifier MDL Qualifier Qualifier 0.012 J 0.016 0.0077 0.0077 0.0016 0.0072 0.0062 U 0.016 0.0062 0.012 U 0.024 0.012 0.012 0.024 0.012 0.010 U 0.024 0.0055 U 0.0055 U 0.0055 U 0.0054 0.016 0.0062 0.0059 U 0.032 0.0059 U 0.032 0.0059 U 0.032 0.0059 0.013 J 0.024 0.010 0.012 J 0.016 0.0077 0.024 0.012 U 0.024 0.0086 0.0024 0.0086 0.012 U 0.024 0.012 U 0.004 0.012 U 0.0054 U 0.0054 0.0056 0.0054 %Recovery Qualifier Limits	Result 0.046 Qualifier RL 0.016 MDL Unit ug/L 0.012 J 0.016 0.0077 ug/L 0.0077 ug/L 0.0072 U 0.016 0.0072 ug/L 0.0062 ug/L 0.0062 U 0.016 0.0062 ug/L 0.012 ug/L 0.012 U 0.024 0.012 ug/L 0.010 ug/L 0.0055 U 0.024 0.0055 ug/L 0.0055 ug/L 0.0013 J 0.016 0.0062 ug/L 0.0059 ug/L 0.0059 ug/L 0.013 J 0.024 0.010 ug/L 0.010 ug/L 0.0077 ug/L 0.012 J 0.016 0.0077 ug/L 0.0024 0.0086 ug/L 0.012 ug/L 0.012 U 0.024 0.014 Ug/L 0.012 ug/L 0.014 ug/L 0.0054 U 0.0054 U 0.0054 Ug/L 0.016 0.0054 ug/L	Result 0.046 Qualifier RL 0.016 MDL 0.0065 Unit ug/L D 0.012 J 0.016 0.0077 ug/L 0.0072 ug/L 0.0072 ug/L 0.0072 ug/L 0.0062 U 0.016 0.0062 ug/L 0.012 ug/L 0.012 U 0.024 0.012 ug/L 0.012 ug/L 0.010 U 0.024 0.010 ug/L 0.010 Ug/L 0.0055 U 0.024 0.0055 ug/L 0.0055 Ug/L 0.0059 U 0.032 0.0059 ug/L 0.0059 U 0.032 0.0059 ug/L 0.0013 J 0.016 0.0079 ug/L 0.013 J 0.024 0.010 ug/L 0.012 J 0.016 0.0077 ug/L 0.012 J 0.016 0.0077 ug/L 0.012 U 0.024 0.0086 ug/L 0.012 U 0.024 0.012 ug/L 0.014 U 0.032 0.014 ug/L 0.014 U 0.032 0.014 ug/L 0.0054 U 0.0054 U 0.0054 U 0.0054 ug/L %Recovery Qualifier Limits	Result 0.046 Qualifier RL 0.016 MDL 0.0065 Unit ug/L D 12/13/21 14:14 0.012 J 0.016 0.0077 ug/L 0.0072 ug/L 0.0072 12/13/21 14:14 0.0072 U 0.016 0.0072 ug/L 0.0062 Ug/L 0.0062 Ug/L 0.0062 Ug/L 0.012 Ug/L 0.0055 Ug/L 0.0055 Ug/L 0.0055 Ug/L 0.0055 Ug/L 0.0055 Ug/L 0.0055 Ug/L 0.0062 Ug/L 0.0062 Ug/L 0.0059 Ug/L 0.0062 Ug/L 0.0062 Ug/L 0.0059 Ug/L 0.0064 Ug/L 0.012 Ug/L 0.012 Ug/L 0.014 Ug/L 0.012 Ug/L 0.014 Ug/L 0.014 Ug/L 0.0054 Ug/L 0.0054 Ug/L 0.0054 Ug/L 0.0054 Ug/L 0.0054 Ug/L 0.0055 Ug/L 0.0054 Ug/L 0.0054 Ug/L 0.0055 Ug/L 0.0054 Ug/L 0.0054 Ug/L 0.0055 Ug/L 0.0054 Ug/L 0.0054 Ug/L 0.00554 U	Result 0.046 Qualifier RL 0.016 MDL 0.065 Unit ug/L D 12/13/21 14:14 Analyzed 12/14/21 10:29 0.010 U 0.024 0.010 ug/L 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14 12/14/21 10:29 12/13/21 14:14

12/13/21 14:14 12/14/21 10:29

45 - 130

107

N - None
O - AsNaO2
P - Na2OAS
Q - Na2SO3
R - Na2SO3
S - H2SO4
T - TSP Dodecahydrate Company FTADVS N U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Ver: 01/16/2019 TURBIDITY - 8 Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont COC No: 280-98696-29755.1 Preservation Codes A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
F - NaDSO4
F - MoDH
G - Amchlor
H - Ascorbic Acid 🕶 eurofins 1000 Page: Page 1 of 1 Job #: l - Ice J - DI Water K-EDTA L-EDA Total Number of containers 2 2 Date/Time: 19/30) Date/Time: Date/Time: Aethod of Shipment: Carrier Tracking No(s): 280-156646 Chain of Custody Disposal By Lab Cooler Temperature(s) °C and Other Remarks: Analysis Requested Special Instructions/QC Requirements: E-Malt: Betsy Sara@Eurofinset com sceived by: Received by: Received by: Chain of Custody Record Lab PM: Sara, Betsy A beca × × z z Time: Field Filtered Sample (Yes or No) z Preservation Code: Matrix ≥ ≥ GWWSB Company Company Company Radiological Sample (C=comp, G=grab) Type O G Sample 2015 Project #: 28020645 "PFC Waters" Time 1100 2/8/2021 1120 Date: TAT Requested (days): Unknown Due Date Requested: Phone: (256) 543-2884 Sample Date 12/8/21 12/7/21 Sampler. Brookins Jate/Time: WO#: Poison B Custody Seal No.: 1200844 - 120085 Buooling Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Eurofins TestAmerica, Denver Phone (303) 736-0100 Fax (303) 431-7171 Possible Hazard Identification chal Brooking to Cooler

Charles and Charl mlankford@gadsdenwater.org Empty Kit Relinquished by: Project Name: Gadsden PFC Sampling Client Information Gadsden Water Works Custody Seals Intact:
X∆ Yes ∆ No Sample Identification 515 Albert Rains Blvd Arvada, CO 80002 4955 Yarrow Street X Non-Hazard Gadsden - RW Gadsden - FW Mike Lankford elinquished by: ient Contact: City: Gadsden State, Zip: AL, 35901 Gadsden

1

Login Sample Receipt Checklist

Client: Gadsden Water Works

Job Number: 280-156646-1

Login Number: 156646

List Number: 1

Creator: Dubicki, Adam L

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</th <th>True</th> <th></th>	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?	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	
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	