

ANALYTICAL REPORT

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Laboratory Job ID: 280-163475-1
Client Project/Site: Gadsden PFAS Sampling

For:
Gadsden Water Works
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Gadsden, Alabama 35901

Attn: Mike Lankford



Authorized for release by:
6/28/2022 5:15:18 PM

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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

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Narrative

CASE NARRATIVE

Client: Gadsden Water Works

Project: Gadsden PFAS Sampling

Report Number: 280-163475-1

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 06/15/2022; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GADSDEN - RW (280-163475-1). The container labels list RW, while the COC lists GADSDEN - RW. The sample ID was logged per the COC. The client was notified on 6/16/2022.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GADSDEN - FW (280-163475-2). The container labels list FW, while the COC lists GADSDEN - FW. The sample ID was logged per the COC. The client was notified on 6/16/2022.

The sample collection time was not recorded on the sample containers received for sample GADSDEN - RW (280-163475-1). The sample collection time of the containers was logged per the information on the chain of custody. The client was notified on 6/16/2022.

PERFLUORINATED HYDROCARBONS (PFAS) MOD

Samples GADSDEN - RW (280-163475-1) and GADSDEN - FW (280-163475-2) were analyzed for Perfluorinated Hydrocarbons (PFAS) MOD in accordance with 537 MOD. The samples were prepared on 06/22/2022 and analyzed on 06/27/2022.

Elevated reporting limits are provided for the following sample due to less than 250mL of sample provided for preparation: GADSDEN - RW (280-163475-1).

No 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: Gadsden PFAS Sampling

Job ID: 280-163475-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Client Sample ID: GADSDEN - RW

Date Collected: 06/13/22 20:22

Date Received: 06/15/22 10:00

Lab Sample ID: 280-163475-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		7.4	3.6	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorodecanoic acid (PFDA)	3.5		3.0	0.46	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorododecanoic acid (PFDoA)	0.81	U	3.0	0.81	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluoroheptanoic acid (PFHpA)	10		3.0	0.37	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorohexanoic acid (PFHxA)	25		3.0	0.86	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorononanoic acid (PFNA)	2.6	J	3.0	0.40	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorooctanoic acid (PFOA)	27		3.0	1.3	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorooctane sulfonate (PFOS)	39		3.0	0.80	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluoropentanoic acid (PFPA)	39		3.0	0.73	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorotetradecanoic acid (PFTeA)	1.1	U	3.0	1.1	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorotridecanoic acid (PFTriA)	1.9	U	3.0	1.9	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluoroundecanoic acid (PFUnA)	1.6	U	3.0	1.6	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorobutanesulfonic acid (PFBS)	91		3.0	0.30	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorodecanesulfonic acid (PFDS)	0.47	U	3.0	0.47	ng/L		06/22/22 04:54	06/27/22 08:58	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		3.0	0.84	ng/L		06/22/22 04:54	06/27/22 08:58	1

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Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	102		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C5 PFPeA	93		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C2 PFHxA	96		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C4 PFHpA	100		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C4 PFOA	96		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C5 PFNA	98		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C2 PFDA	99		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C2 PFUnA	92		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C2 PFDoA	83		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C2 PFTeDA	64		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C3 PFBS	88		25 - 150	06/22/22 04:54	06/27/22 08:58	1
18O2 PFHxS	93		25 - 150	06/22/22 04:54	06/27/22 08:58	1
13C4 PFOS	85		25 - 150	06/22/22 04:54	06/27/22 08:58	1

Client Sample ID: GADSDEN - FW

Date Collected: 06/14/22 11:00

Date Received: 06/15/22 10:00

Lab Sample ID: 280-163475-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	16		5.0	2.4	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorodecanoic acid (PFDA)	2.2		2.0	0.31	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorododecanoic acid (PFDoA)	0.55	U	2.0	0.55	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluoroheptanoic acid (PFHpA)	9.2		2.0	0.25	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorohexanoic acid (PFHxA)	29		2.0	0.58	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorononanoic acid (PFNA)	2.0		2.0	0.27	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorooctanoic acid (PFOA)	22		2.0	0.85	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorooctane sulfonate (PFOS)	32		2.0	0.54	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluoropentanoic acid (PFPA)	49		2.0	0.49	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorotetradecanoic acid (PFTeA)	0.73	U	2.0	0.73	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorotridecanoic acid (PFTriA)	1.3	U	2.0	1.3	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluoroundecanoic acid (PFUnA)	1.1	U	2.0	1.1	ng/L		06/22/22 04:54	06/27/22 09:08	1
Perfluorobutanesulfonic acid (PFBS)	100		2.0	0.20	ng/L		06/22/22 04:54	06/27/22 09:08	1

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