

**April 2022 Water Supply Well PFAS Analytical Results - Gustavus DOT&PF**

Analyte	EPA LHA	Sample Name Sample Date Units	NPS Well		PW-010	PW-012		PW-037	PW-038	PW-039
			4/27/2022	4/27/2022 DUP	4/27/2022	4/28/2022	4/28/2022 DUP	4/28/2022	4/28/2022	4/27/2022
			Water	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	—	ng/L	6.1	6.6	<1.9	0.62 J	0.81 J	<1.8	<1.7	<1.8
Perfluorohexanoic acid (PFHxA)	—	ng/L	5.4	5.6	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluoroheptanoic acid (PFHpA)	—	ng/L	2.8	2.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorononanoic acid (PFNA)	—	ng/L	0.33 J	0.29 J	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorobutanesulfonic acid (PFBS)	—	ng/L	1.2 J	1.3 J	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorodecanoic acid (PFDA)	—	ng/L	0.30 J	0.37 J	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluoroundecanoic acid (PFUnA)	—	ng/L	<1.9	<1.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorododecanoic acid (PFDoA)	—	ng/L	<1.9	<1.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorotridecanoic acid (PFTrDA)	—	ng/L	<1.9	<1.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Perfluorotetradecanoic acid (PFTeA)	—	ng/L	<1.9	<1.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	—	ng/L	<4.7	<4.6	<4.7	<4.2	<4.4 J*	<4.5	<4.2	<4.5
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	—	ng/L	<4.7	<4.6	<4.7	<4.2	<4.4	<4.5	<4.2	<4.5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	—	ng/L	<1.9	<1.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	—	ng/L	<1.9	<1.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	—	ng/L	<1.9	<1.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	—	ng/L	<3.7	<3.7	<3.8	<3.3	<3.5	<3.6	<3.3	<3.6
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	9.4	9.3	<1.9	2.6	2.5	<1.8	<1.7	<1.8
Perfluorooctanoic acid (PFOA)	70†	ng/L	3.4	3.8	<1.9	<1.7	<1.7	<1.8	<1.7	<1.8
LHA Combined (PFOS + PFOA)	70†	ng/L	13	13	N/A	2.6 ‡	2.5 ‡	N/A	N/A	N/A

Notes: Results reported from Eurofins Environmental Testing work order 320-87434-1.

DUP Field-duplicate sample

EPA United States Environmental Protection Agency

† EPA LHA level is 70 ppt for PFOS and PFOA combined.

ng/L nanograms per liter

PFAS per- and poly-fluoroalkyl substances

— No applicable regulatory limit exists for the associated analyte.

< Analyte was not detected; reported as <Reporting Limit (RL).

J Estimated concentration, detected greater than the method detection limit (MDL) and less than the reporting limit (RL). Flag applied by the laboratory.

‡ Minimum concentration, the combined concentration includes one or more result that is not detected greater than the MDL.

**April 2022 Water Supply Well PFAS Analytical Results - Gustavus DOT&PF**

Analyte	EPA LHA	Sample Name	PW-040	PW-059	PW-203	PW-205.1	PW-211	PW-221	PW-401
		Sample Date	4/28/2022	4/27/2022	4/27/2022	4/27/2022	4/27/2022	4/27/2022	4/27/2022
		Units	Water	Water	Water	Water	Water	Water	Water
Perfluorohexanesulfonic acid (PFHxS)	—	ng/L	<1.8	1.6 J	0.58 J	1.3 J	<1.8	<1.9	3.7
Perfluorohexanoic acid (PFHxA)	—	ng/L	<1.8	0.99 J	<1.9	<1.9	<1.8	<1.9	2.6
Perfluoroheptanoic acid (PFHpA)	—	ng/L	<1.8	0.45 J	<1.9	<1.9	<1.8	<1.9	1.4 J
Perfluorononanoic acid (PFNA)	—	ng/L	<1.8	0.39 J	<1.9	<1.9	<1.8	<1.9	<1.9
Perfluorobutanesulfonic acid (PFBS)	—	ng/L	<1.8	1.2 J	0.20 J	0.26 J	<1.8	<1.9	0.37 J
Perfluorodecanoic acid (PFDA)	—	ng/L	<1.8	0.52 J	<1.9	0.32 J	<1.8	<1.9	<1.9
Perfluoroundecanoic acid (PFUnA)	—	ng/L	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9
Perfluorododecanoic acid (PFDoA)	—	ng/L	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9
Perfluorotridecanoic acid (PFTrDA)	—	ng/L	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9
Perfluorotetradecanoic acid (PFTeA)	—	ng/L	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	—	ng/L	<4.5	<4.7	<4.7	<4.7	<4.6	<4.7	<4.6
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	—	ng/L	<4.5	<4.7	<4.7	<4.7	<4.6	<4.7	<4.6
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	—	ng/L	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	—	ng/L	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	—	ng/L	<1.8	<1.9	<1.9	<1.9	<1.8	<1.9	<1.9
Hexafluoropropylene oxide dimer acid (HFPO-DA)	—	ng/L	<3.6	<3.7	<3.8	<3.8	<3.7	<3.8	<3.7
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.8	2.9	0.65 J	2.1	0.55 J	<1.9	18
Perfluorooctanoic acid (PFOA)	70†	ng/L	<1.8	1.2 J	<1.9	<1.9	<1.8	<1.9	<1.9
LHA Combined (PFOS + PFOA)	70†	ng/L	N/A	4.1 J	0.65 J‡	2.1 ‡	0.55 J‡	N/A	18 ‡

- Notes: Results reported from Eurofins Environmental Testing work order 320-87434-1.
- DUP Field-duplicate sample
  - EPA United States Environmental Protection Agency
  - † EPA LHA level is 70 ppt for PFOS and PFOA combined.
  - ng/L nanograms per liter
  - PFAS per- and poly-fluoroalkyl substances
  - No applicable regulatory limit exists for the associated analyte.
  - < Analyte was not detected; reported as <Reporting Limit (RL).
  - J Estimated concentration, detected greater than the method detection limit (MDL) and less than the reporting limit (RL). Flag applied by the laboratory.
  - ‡ Minimum concentration, the combined concentration includes one or more result that is not detected greater than the MDL.