

February 2023 Water-supply Well PFAS Analytical Results - Gustavus DOT&PF

		Regulatory Limit	Units	NPS Well	PW-010		PW-203	PW-205.1	PW-211		PW-221
Analytical Method	Analyte			NPS Well	PW-010	PW-110	PW-203	PW-205.1	PW-211	PW-311	PW-221
				2/19/2023 11:20	2/17/2023 17:42	2/17/2023 17:32	2/16/2023 16:09	2/17/2023 14:11	2/17/2023 11:24	2/17/2023 11:14	2/17/2023 17:18
DoD QSM Table B-15, EPA 537(Mod)	Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	7.3	<1.9	<1.9	0.54 J	0.79 J	0.86 J	0.99 J	0.6 J
	Perfluorooctanoic acid (PFOA)		ng/L	1.9	<1.9	<1.9	<1.9	<1.9	0.96 J	0.89 J	<2.0
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	10‡	ng/L	<3.6	<3.7	<3.7	<3.7	<3.7	<3.7	<3.9	<4.0
	Perfluorobutanesulfonic acid (PFBS)	2000‡	ng/L	0.35 J	<1.9	<1.9	<1.9	<1.9	2.0	1.8 J	<2.0
	Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	Perfluoroheptanoic acid (PFHpA)	-	ng/L	1.5 J	<1.9	<1.9	<1.9	<1.9	0.5 J	0.51 J	<2.0
	Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	4.3	<1.9	<1.9	0.54 J	<1.9	0.87 J	1.0 J	<2.0
	Perfluorohexanoic acid (PFHxA)	-	ng/L	2.9	<1.9	<1.9	<1.9	<1.9	<1.8	0.71 J	<2.0
	Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.9	<1.9	<1.9	<1.9	<1.8	<1.9	<2.0
	N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.5	<4.6	<4.6	<4.6	<4.7	<4.6	<4.9	<5.0
	N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.5	<4.6	<4.6	<4.6	<4.7	<4.6	<4.9	<5.0

- Notes:
- Results reported from Eurofins Environment Testing America work order 320-97037-1.
PW-110 is the field duplicate of sample PW-010; PW-321 is the field duplicate of sample PW-221.
- † Current action level is 70 ng/L for the sum of PFOS and PFOA.
- ‡ Current final EPA lifetime health advisory (LHA) level.
- DEC Alaska Department of Environmental Conservation
- EPA United States Environmental Protection Agency
- PFAS per- and poly-fluoroalkyl substances
- QSM Quality Systems Manual
- ng/L nanograms per liter
- No applicable regulatory limit exists for the associated analyte.
- < Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality control failures
- J Estimated concentration, detected greater than the detection limit and less than the RL. Flag applied by the laboratory.

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Analytical Method	Analyte	Regulatory Limit	Units	PW-401	PW-470
				PW-401 2/17/2023 13:20	PW-470 2/18/2023 10:10
DoD QSM Table B-15, EPA 537(Mod)	Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	7.8	2.2
	Perfluorooctanoic acid (PFOA)		ng/L	<1.9	1.9
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	10‡	ng/L	<3.9	<3.7
	Perfluorobutanesulfonic acid (PFBS)	2000‡	ng/L	<1.9	0.19 J
	Perfluorodecanoic acid (PFDA)	-	ng/L	<1.9	<1.9
	Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.9	<1.9
	Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.9	0.77 J
	Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	0.88 J	<1.9
	Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.9	1.6 J
	Perfluorononanoic acid (PFNA)	-	ng/L	<1.9	0.34 J
	Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.9	<1.9
	Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.9	<1.9
	Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.9	<1.9
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.9	<1.9
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.9	<1.9
	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.9	<1.9
	N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.8	<4.6
	N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.8	<4.6

- Notes:
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