

Summary of Chemistry Results
PFAS Sampling, NAH Shaft

Notes:
ND = Not Detected
PPT = Parts per Trillion
PPB = Parts per Billion
PPM = Parts per Million
§ - Exceeds Screening Level
-- = No Information Available
N (Normal) = Full compliance sample
FD (Field Duplicate) = Extra sample taken for quality control
N (Grab, Resample) = Additional follow-up sample
Results are screened to the November 2023 EPA RSLs in accordance with Update to Assistant Secretary of Defense for Energy, Installations, and Environment Memorandum, "Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program" dated August 24, 2023.

				Location ID:	SHFTAIEA-PR-FW2					SHFTAIEA-CP-PR
				Location Type:	Faucet/Tap					Well
				Field Sample ID:	SHAFT-HW-0018384-24245-N	SHAFT-HW-0018384-24306-N	SHAFT-HW-0018384-24306-N-R1	SHAFT-HW-0018384-25001-N	SHAFT-HW-0018384-25060-N	SHAFT-HW-0017491-24183-N
				Sample Date:	2024-09-27	2024-11-07	2024-11-27	2025-01-08	2025-03-07	2024-07-24
				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	EPA RSL	EPA MCL							
Field Test (ppb)	Free Chlorine	--	--	--	--	--	--	--	--	20.0
Field Test (pH)	pH	--	--	6.99	7.47	7.19	7.01	7.00	7.04	
Field Test (ms/cm)	Specific Conductivity	--	--	0.900	0.920	0.900	0.890	0.930	0.670	
Field Test (degrees Celcuis)	Temperature	--	--	25.9	25.5	25.0	25.5	25.1	25.9	
Field Test (nephelometric turbidity unit)	Turbidity	--	--	0.720	0.330	0.780	3.74	0.480	0.110	
Per- and polyfluoroalkyl substances (EPA 1633) (ppt)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	--	--	ND	--	ND	ND	ND	--	
	2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	--	--	ND	--	ND	ND	ND	--	
	3-Perfluoroheptyl propanoic acid (7:3FTCA)	--	--	ND	--	ND	ND	ND	--	
	3-Perfluoropropyl propanoic acid (3:3FTCA)	--	--	ND	--	ND	ND	ND	--	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	ND	--	ND	ND	ND	--	
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	--	ND	--	ND	ND	ND	--	
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	--	ND	--	ND	ND	ND	--	
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	--	ND	--	ND	ND	ND	--	
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	--	--	ND	--	ND	ND	ND	--	
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.5	10	ND	--	ND	ND	ND	--	
	N-Ethyl perfluorooctanesulfonamide (NEtFOSA)	--	--	ND	--	ND	ND	ND	--	
	N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	--	ND	--	ND	ND	ND	--	
	N-Ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	--	--	ND	--	ND	ND	ND	--	
	N-Methyl heptadecafluorooctanesulfonamide (NMeFOSA)	--	--	ND	--	ND	ND	ND	--	
	N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	--	ND	--	ND	ND	ND	--	

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				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	EPA RSL	EPA MCL							
Per- and polyfluoroalkyl substances (EPA 1633) (ppt)	N-Methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	--	--	ND	--	ND	ND	ND	--	
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	ND	--	ND	ND	ND	--	
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	--	ND	--	ND	ND	ND	--	
	Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	ND	--	ND	ND	ND	--	
	Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	ND	--	ND	ND	ND	--	
	Perfluorobutanesulfonic acid (PFBS)	600	--	3.20	--	4.80	3.70	3.70	--	
	Perfluorobutanoic acid (PFBA)	1800	--	ND	--	2.70	2.40	2.40	--	
	Perfluorodecanesulfonic acid (PFDS)	--	--	ND	--	ND	ND	ND	--	
	Perfluorodecanoic acid (PFDA)	--	--	ND	--	ND	ND	ND	--	
	Perfluorododecanesulfonic acid (PFDoS)	--	--	ND	--	ND	ND	ND	--	
	Perfluorododecanoic acid (PFDoA)	--	--	ND	--	ND	ND	ND	--	
	Perfluoroheptanesulfonic acid (PFHpS)	--	--	ND	--	ND	ND	ND	--	
	Perfluoroheptanoic acid (PFHpA)	--	--	2.20	--	3.20	3.00	2.40	--	
	Perfluorohexanesulfonic acid (PFHxS)	39	10	4.50	--	7.20	5.70	4.70	--	
	Perfluorohexanoic acid (PFHxA)	990	--	4.30	--	5.60	5.30	5.20	--	
	Perfluorononanesulfonic acid (PFNS)	--	--	ND	--	ND	ND	ND	--	
	Perfluorononanoic acid (PFNA)	5.9	10	ND	--	ND	ND	ND	--	
	Perfluorooctanesulfonamide (PFOSA)	--	--	ND	--	ND	ND	ND	--	
	Perfluorooctanesulfonic acid (PFOS)	4	4	6.10 §	--	8.30 §	8.80 §	6.90 §	--	
	Perfluorooctanoic acid (PFOA)	6	4	4.80 §	--	7.00 §	6.20 §	4.90 §	--	
	Perfluoropentanesulfonic acid (PFPeS)	--	--	ND	--	1.10	ND	ND	--	
	Perfluoropentanoic acid (PFPeA)	--	--	5.60	--	7.20	6.10	6.00	--	
	Perfluorotetradecanoic acid (PFTeDA)	--	--	ND	--	ND	ND	ND	--	
	Perfluorotridecanoic acid (PFTrDA)	--	--	ND	--	ND	ND	ND	--	

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				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	EPA RSL	EPA MCL							
Per- and polyfluoroalkyl substances (EPA 1633) (ppt)	Perfluoroundecanoic acid (PFUnA)	--	--	ND	--	ND	ND	ND	ND	--
Per- and Polyfluoroalkyl Substances (EPA 533) (ppt)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	--	--	ND	ND	--	ND	ND	ND	ND
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	ND	ND	--	ND	ND	ND	ND
	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	--	--	ND	ND	--	ND	ND	ND	ND
	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	--	--	ND	ND	--	ND	ND	ND	ND
	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	--	--	ND	ND	--	ND	ND	ND	ND
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	--	--	ND	ND	--	ND	ND	ND	ND
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.5	10	ND	ND	--	ND	ND	ND	ND
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	--	--	ND	ND	--	ND	ND	ND	ND
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	--	--	ND	ND	--	ND	ND	ND	ND
	Perfluoro-3-methoxypropanoic acid (PFMPA)	--	--	ND	ND	--	ND	ND	ND	ND
	Perfluoro-4-methoxybutanoic acid (PFMBA)	--	--	ND	ND	--	ND	ND	ND	ND
	Perfluorobutanesulfonic acid (PFBS)	600	--	4.20	4.10	--	3.70	3.20	1.80	
	Perfluorobutanoic acid (PFBA)	1800	--	2.70	2.80	--	2.50	2.10	2.00	
	Perfluorodecanoic acid (PFDA)	--	--	ND	ND	--	ND	ND	ND	
	Perfluorododecanoic acid (PFDoA)	--	--	ND	ND	--	ND	ND	ND	
	Perfluoroheptanesulfonic acid (PFHpS)	--	--	ND	ND	--	ND	ND	ND	
	Perfluoroheptanoic acid (PFHpA)	--	--	3.30	3.30	--	3.00	2.30	1.90	
	Perfluorohexanesulfonic acid (PFHxS)	39	10	6.10	6.30	--	6.00	4.50	2.60	
	Perfluorohexanoic acid (PFHxA)	990	--	5.60	5.80	--	5.40	4.30	2.70	
	Perfluorononanoic acid (PFNA)	5.9	10	ND	ND	--	ND	ND	ND	
	Perfluorooctanesulfonic acid (PFOS)	4	4	11.5 §	13.9 §	--	10.3 §	ND	6.80 §	

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				Sample Type:	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)	N (Normal)
Method Group	Analyte	EPA RSL	EPA MCL							
Per- and Polyfluoroalkyl Substances (EPA 533) (ppt)	Perfluorooctanoic acid (PFOA)	6	4	7.40 §	7.50 §	--	7.20 §	5.00 §	3.50	
	Perfluoropentanesulfonic acid (PFPeS)	--	--	0.990	0.880	--	0.900	ND	ND	
	Perfluoropentanoic acid (PFPeA)	--	--	7.10	6.90	--	6.20	5.30	3.50	
	Perfluoroundecanoic acid (PFUnA)	--	--	ND	ND	--	ND	ND	ND	
Per- and Polyfluoroalkyl Substances (EPA 537.1) (ppt)	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	--	--	ND	ND	--	ND	ND	ND	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	--	--	ND	ND	--	ND	ND	ND	
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	--	--	ND	ND	--	ND	ND	ND	
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.5	10	ND	ND	--	ND	ND	ND	
	N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	--	--	ND	ND	--	ND	ND	ND	
	N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	--	--	ND	ND	--	ND	ND	ND	
	Perfluorobutanesulfonic acid (PFBS)	600	--	3.80	4.20	--	3.20	3.80	1.80	
	Perfluorodecanoic acid (PFDA)	--	--	ND	ND	--	ND	ND	ND	
	Perfluorododecanoic acid (PFDoA)	--	--	ND	ND	--	ND	ND	ND	
	Perfluoroheptanoic acid (PFHpA)	--	--	2.80	3.10	--	2.20	2.70	1.50	
	Perfluorohexanesulfonic acid (PFHxS)	39	10	5.20	5.70	--	5.00	5.60	2.60	
	Perfluorohexanoic acid (PFHxA)	990	--	4.50	5.40	--	3.80	4.70	2.40	
	Perfluorononanoic acid (PFNA)	5.9	10	ND	ND	--	ND	0.800	ND	
	Perfluorooctanesulfonic acid (PFOS)	4	4	8.50 §	8.50 §	--	7.40 §	9.50 §	7.10 §	
	Perfluorooctanoic acid (PFOA)	6	4	6.30 §	6.80 §	--	5.70 §	6.00 §	3.60	
	Perfluorotetradecanoic acid (PFTeDA)	--	--	ND	ND	--	ND	ND	ND	
	Perfluorotridecanoic acid (PFTrDA)	--	--	ND	ND	--	ND	ND	ND	
	Perfluoroundecanoic acid (PFUnA)	--	--	ND	ND	--	ND	ND	ND	