

Table 4-7
Porewater PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report
Former Loring Air Force Base
Limestone, ME

Drainage Basin:			Butterfield Brook										
Location ID:			E-A-PW01A	E-A-PW01B	E-A-PW01C	E-A-PW01D	E-A-PW01E	E-A-PW01F	E-A-PW01G	E-A-PW01H	E-A-PW02A	E-A-PW02E	E-A-PW01I
Sample ID:			E-A-PW01A_20240820	E-A-PW01B_20240815	E-A-PW01C_20240816	E-A-PW01D_20241024	E-A-PW01E_20241029	E-A-PW01F_20240816	E-A-PW01G_20240817	E-A-PW01H_20241024	E-A-PW02A_20240820	E-A-PW02E_20241029	E-A-PW01I_20241022
Sample Date:			8/20/2024	8/15/2024	8/16/2024	10/24/2024	10/29/2024	8/16/2024	8/17/2024	10/24/2024	8/20/2024	10/29/2024	10/22/2024
Sample Depth (ft bgs):			0.00-1.00	0.00-1.10	0.00-1.00	1.00-1.50	0.00-1.00	0.25-0.75	0.00-0.50	0.00-0.60	0.08-0.42	0.00-1.00	1.00-1.60
Sample Type:			N	N	N	N	N	N	N	N	N	N	N
Latitude:			46.96925	46.96715085	46.96753585	46.95584088	46.95065277	46.94718845	46.94682119	46.92971429	46.96910398	46.951394	46.95893411
Longitude:			-67.89036	-67.87741235	-67.87368131	-67.88380294	-67.85627588	-67.85071958	-67.84613988	-67.83900766	-67.89029858	-67.858782	-67.90399252
Analyte	Swimming SL (ng/L)	Eco SW PW Lowest Benchmark (ng/L)	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Perfluorobutanoic acid (PFBA)	57000	75700	3.9 J	2.1 J	11.1 J	17.8 J	4.8 U	4.1 U	4 U	4.7 U	2.1 J	5.3 U	2.7 J
Perfluoropentanoic acid (PFPeA)	-	-	2.9 J	2.5 J	48.9	23	2.6 J	1.9 J	1.7 J	1.7 J	1.1 J	4.2 J	4.4 J
Perfluorohexanoic acid (PFHxA)	46000	33800	4.5	1.3 J	57.5	22.4	2.1 J	1.8 J	1.4 J	0.88 J	2.8 J	2.8 J	1.1 J
Perfluoroheptanoic acid (PFHpA)	-	-	2.8 J	1.3 J	3.3 J	11.2	1.6 J	1.2 J	0.83 J	2.4 U	1.2 J	1.8 J	1.1 J
Perfluorooctanoic acid (PFOA)	0.25	36400	5.1	2.5 J	2.7 J	12.8	2.7 J	2.2 J	1.9 J	1.8 J	1.7 J	2.9 J	1 J
Perfluorononanoic acid (PFNA)	260	88	3.5 J	0.86 J	2 U	3.1 J	1.3 J	1.4 J	1.6 J	2.4 U	1 J	2.7 U	2 U
Perfluorodecanoic acid (PFDA)	0.2	71.6	0.7 J	2 U	2 U	2.4 U	2.4 U	0.7 J	2 U	2.4 U	0.76 J	2.7 U	2 U
Perfluoroundecanoic acid (PFUnA)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
Perfluorododecanoic acid (PFDoA)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
Perfluorotridecanoic acid (PFTriDA)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
Perfluorotetradecanoic acid (PFTeDA)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
Perfluorobutanesulfonic acid (PFBS)	30000	160000	1 J	2 U	2 J	4.6 J	2.4 U	2 U	2 U	2.4 U	1 J	2.7 U	2 U
Perfluoropentanesulfonic acid (PFPeS)	-	-	1.6 J	4 U	4 U	6.7	4.8 U	4.1 U	4 U	4.7 U	1.8 J	5.3 U	4.1 U
Perfluorohexanesulfonic acid (PFHxS)	1800	10800	31.3	3.8 J	2 J	109	10.9	11.9	10.3	10.4	24.9	11.5	3.8 J
Perfluoroheptanesulfonic acid (PFHpS)	-	-	1.6 J	2 U	2 U	3 J	2.4 U	2 U	2 U	2.4 U	1.6 J	2.7 U	2 U
Perfluorooctanesulfonic acid (PFOS)	10	12.8	174	6.7	2.8 U	90.9	21.7	64.2	78.3	5.2	148	9.2	2 U
Perfluorononanesulfonic acid (PFNS)	-	-	1.3 J	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
Perfluorodecanesulfonic acid (PFDS)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
Perfluorododecanesulfonic acid (PFDoS)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	-	-	8.2 U	8 U	7.9 U	9.8 U	9.6 U	8.2 U	7.9 U	9.4 U	8.1 U	11 U	8.2 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	-	-	8.2 U	8 U	7.9 U	9.8 U	9.6 U	8.2 U	7.9 U	9.4 U	8.1 U	11 U	8.2 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	-	-	8.2 U	8 U	7.9 U	9.8 U	9.6 U	8.2 U	7.9 U	9.4 U	8.1 U	11 U	8.2 U
Perfluorooctane sulfonamide (PFOSA)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	-	-	20 U	20 U	20 U	24 U	24 U	20 U	20 U	24 U	20 U	27 U	20 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	-	-	20 U	20 U	20 U	24 U	24 U	20 U	20 U	24 U	20 U	27 U	20 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUds)	-	-	4.1 U	4 U	4 U	4.9 U	4.8 U	4.1 U	4 U	4.7 U	4 U	5.3 U	4.1 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	-	-	2 U	2 U	2 U	2.4 U	2.4 U	2 U	2 U	2.4 U	2 U	2.7 U	2 U
3-Perfluoropropyl propanoic acid (3:3FTCA)	-	-	10 U	10 U	9.9 U	12 U	12 U	10 U	9.9 U	12 U	10 U	13 U	10 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	-	-	20 U	20 U	20 U	24 U	24 U	20 U	20 U	24 U	20 U	27 U	20 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	-	-	20 U	20 U	20 U	24 U	24 U	20 U	20 U	24 U	20 U	27 U	20 U

Notes

- There is no current screening level protective of human health in porewater, however, the Swimming SL is presented as a surrogate for reference purposes only; the porewater data presented in this table are not evaluated against the Swimming SL.
- See Table 1-1 for additional notes and Table 1-3 for information about screening levels.

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Former Loring Air Force Base
Limestone, ME

Drainage Basin:			Greenlaw Brook												
Location ID:			E-A-PW01J	E-A-PW01J	E-A-PW01N	E-A-PW01O	E-A-PW01P	E-A-PW01Q	E-A-PW01R	E-A-PW01S	E-A-PW01T	E-A-PW01U		E-A-PW01V	E-A-PW01W
Sample ID:			E-A-PW01J_20240912	E-A-PW01J_20240912FD	E-A-PW01N_20241024	E-A-PW01O_20240813	E-A-PW01P_20240813	E-A-PW01Q_20240814	E-A-PW01R_20240814	E-A-PW01S_20241023	E-A-PW01T_20240910	E-A-PW01U_20241003	E-A-PW01U_20241003FD	E-A-PW01V_20240919	E-A-PW01W_20241003
Sample Date:			9/12/2024	9/12/2024	10/24/2024	8/13/2024	8/13/2024	8/14/2024	8/14/2024	10/23/2024	9/10/2024	10/3/2024	10/3/2024	9/19/2024	10/3/2024
Sample Depth (ft bgs):			0.00-1.00	0.00-1.00	0.00-0.80	8.50-9.00	0.00-0.60	4.00-4.66	0.00-0.60	0.00-1.00	0.00-0.40	0.00-0.50	0.00-0.50	0.00-1.00	0.00-0.70
Sample Type:			N	FD	N	N	N	N	N	N	N	N	FD	N	N
Latitude:			46.95926674	46.95926674	46.93948665	46.93032892	46.92953555	46.92687428	46.92576	46.9288413	46.92659624	46.92700858	46.92700858	46.93467094	46.9282209
Longitude:			-67.9077657	-67.9077657	-67.91360104	-67.92180279	-67.92303889	-67.92382426	-67.92352	-67.87735584	-67.88583537	-67.89837237	-67.89837237	-67.8968174	-67.89915215
Analyte	Swimming SL (ng/L)	Eco SW PW Lowest Benchmark (ng/L)	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Perfluorobutanoic acid (PFBA)	57000	75700	4.8 J	4.4 J	6.9 J	5.2 J	4.1 J	3.7 J	3.7 J	9.4 J	19.6	9.2	9.2	9.1 J	12
Perfluoropentanoic acid (PFPeA)	-	-	2.3 J	2.4 J	14.8	36.6	7.8	4.1 J	9.5	8.9	13.9	16	16	24.1	31
Perfluorohexanoic acid (PFHxA)	46000	33800	1.6 J	1.7 J	13.1	17.9	5.5	4 U	5.3 J+	3.6 J	8.8	21	22	38.6	30
Perfluoroheptanoic acid (PFHpA)	-	-	1 J	1.1 J	6.3	9.5	4.3	2.5 U	3.2 U	2.3 J	7	10	10	12.6	16
Perfluorooctanoic acid (PFOA)	0.25	36400	1.6 J	1.4 J	7.9	12.2	5.6	3.6 U	4.7 J+	4	11.5	27	27	31.3	22
Perfluorononanoic acid (PFNA)	260	88	0.79 J	0.77 J	0.92 J	1.9 J	1.9 J	2.5 U	1.8 U	1.4 J	2.8 J	1.1 J	1.2 J	1.5 J	2.5
Perfluorodecanoic acid (PFDA)	0.2	71.6	2 U	2 U	2.4 U	2 U	0.55 J	2.5 U	0.64 J	2 U	2.2 U	0.97 U	0.83 U	1.9 U	0.96 U
Perfluoroundecanoic acid (PFUnA)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	1.4 U	1.2 U	1.9 U	1.4 U
Perfluorododecanoic acid (PFDoA)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	0.97 U	0.83 U	1.9 U	0.96 U
Perfluorotridecanoic acid (PFTrDA)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	1.4 U	1.2 U	1.9 U	1.4 U
Perfluorotetradecanoic acid (PFTeDA)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	0.97 U	0.83 U	1.9 U	0.96 U
Perfluorobutanesulfonic acid (PFBS)	30000	160000	0.57 J	0.59 J	6	5.6	1.9 J	1.5 J	1.9 J	0.82 J	1.7 J	6.7	6.9	5	5.6
Perfluoropentanesulfonic acid (PFPeS)	-	-	4 U	4 U	6.4	9.3	2.9 J	1.8 J	2.5 J	4 U	4.3 U	8.8	8.5	6.9	7.9
Perfluorohexanesulfonic acid (PFHxS)	1800	10800	6.2	6.1	44	64.1	23.1	18.2	22.7	20.4	25.4	170	150	286	120
Perfluoroheptanesulfonic acid (PFHpS)	-	-	2 U	2 U	1.6 J	7	1.8 J	0.98 J	1.3 J	2 U	0.85 J	2.1	2.2	2.8 J	1.6
Perfluorooctanesulfonic acid (PFOS)	10	12.8	6.8	6.6	23.4	300	148	50.2 J+	74 J+	17.9	13.6	97	100	110	89
Perfluorononanesulfonic acid (PFNS)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	1.3 U	1.1 U	1.9 U	1.3 U
Perfluorodecanesulfonic acid (PFDS)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	1.3 U	1.1 U	1.9 U	1.3 U
Perfluorododecanesulfonic acid (PFDoS)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	0.97 U	0.83 U	3.8 U	0.96 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	-	-	80 U	80 U	9.8 U	7.8 U	7.8 U	10 U	7.2 U	8 U	86 U	3.6 U	3.1 U	7.7 U	3.6 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	-	-	8 U	8 U	9.8 U	7.8 U	7.8 U	10 U	7.2 U	8 U	8.6 U	3.7 U	3.2 U	18.3 J	3.7 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	-	-	8 U	8 U	9.8 U	7.8 U	7.8 U	10 U	7.2 U	8 U	8.6 U	5.4 U	4.6 U	7.7 U	5.3 U
Perfluorooctane sulfonamide (PFOSA)	-	-	2 U	2 U	2.4 U	2 U	1.3 J	2.5 U	1.8 U	2 U	2.2 U	0.7 U	0.29 J	1.4 J	1.4 J
N-methyl perfluorooctanesulfonamide (NMeFOSA)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	1.4 U	1.2 U	3.8 U	1.4 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	1.4 U	1.2 U	3.8 U	1.4 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	1.4 U	0.81 J	3.8 U	1.4 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	0.97 U	1.1 J	3.8 U	0.96 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	-	-	20 U	20 U	24 U	20 U	19 U	25 U	18 U	20 U	22 U	9.7 U	8.3 U	19 U	9.6 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	-	-	20 U	20 U	24 U	20 U	19 U	25 U	18 U	20 U	22 U	9.7 U	8.3 U	19 U	9.6 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	3.9 U	3.3 U	1.9 U	3.8 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	3.6 U	3.1 U	3.8 U	3.6 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	3.3 U	2.8 U	1.9 U	3.3 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	1.4 U	1.2 U	3.8 U	1.4 U
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	29 U	25 U	3.8 U	28 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	3.6 U	3.1 U	3.8 U	3.6 U
11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	-	4 U	4 U	4.9 U	3.9 U	3.9 U	5 U	3.6 U	4 U	4.3 U	2.6 U	2.3 U	3.8 U	2.6 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	-	-	2 U	2 U	2.4 U	2 U	1.9 U	2.5 U	1.8 U	2 U	2.2 U	2.4 U	2.1 U	1.9 U	2.4 U
3-Perfluoropropyl propanoic acid (3:3FTCA)	-	-	10 U	10 U	12 U	9.8 U	9.7 U	13 U	9 U	10 U	11 U	7 U	6 U	9.6 U	7 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	-	-	20 U	20 U	24 U	20 U	19 U	25 U	18 U	20 U	22 U	35 U	30 U	19 U	35 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	-	-	20 U	20 U	24 U	20 U	19 U	25 U	18 U	20 U	22 U	35 U	30 U	19 U	35 U

Notes

- There is no current screening level protective of human health in porewater, however, the Swimming SL is presented as a surrogate for reference purposes only; the porewater data presented in this table are not evaluated against the Swimming SL.
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Location ID:			E-A-PW01W	E-A-PW01X			E-A-PW01Y	E-A-PW01Z	E-A-PW02I	E-A-PW02J	E-A-PW02L		E-A-PW02N	E-A-PW02O	E-A-PW02U
Sample ID:			E-A-PW01W_20241003FD	E-A-PW01X_20240913	E-A-PW01X_20240913FD	E-A-PW01Y_20240820	E-A-PW01Z_20241023	E-A-PW02I_20241022	E-A-PW02J_20241022	E-A-PW02L_20241021	E-A-PW02L_20241021FD	E-A-PW02N_20241024	E-A-PW02O_20240818	E-A-PW02U_20241023	
Sample Date:			10/3/2024	9/13/2024	9/13/2024	8/20/2024	10/23/2024	10/22/2024	10/22/2024	10/21/2024	10/21/2024	10/24/2024	8/18/2024	10/23/2024	
Sample Depth (ft bgs):			0.00-0.70	0.00-1.00	0.00-1.00	0.00-1.50	0.00-1.00	1.00-1.50	1.00-1.50	0.00-1.00	0.00-1.00	0.00-0.20	0.00-0.50	0.00-0.50	
Sample Type:			FD	N	FD	N	N	N	N	N	FD	N	N	N	
Latitude:			46.9282209	46.92290208	46.92290208	46.92127477	46.91349909	46.95890962	46.95841204	46.94370677	46.94370677	46.939804	46.93133088	46.9263743	
Longitude:			-67.89915215	-67.90418503	-67.90418503	-67.91656702	-67.93126731	-67.90204179	-67.90903509	-67.90943287	-67.90943287	-67.911757	-67.92042006	-67.89581907	
Analyte	Swimming SL (ng/L)	Eco SW PW Lowest Benchmark (ng/L)	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	
Perfluorobutanoic acid (PFBA)	57000	75700	12	5.9 J	5.8 J	4 U	3.1 J	3.8 J	4.1 J	2.2 J	2.4 J	3.8 U	5 J	6.9 J	
Perfluoropentanoic acid (PFPeA)	-	-	31	9.5	9.6	1.5 J	1.8 J	8.3	8.3	1.5 J	1.8 J	1.9 U	19.7	7.6 J	
Perfluorohexanoic acid (PFHxA)	46000	33800	30	10.4	10.7	2 J	1.5 J	0.88 J	2.3 J	0.99 J	1 J	1.9 U	5.7	7	
Perfluoroheptanoic acid (PFHpA)	-	-	16	6.7	7	0.84 J	0.69 J	1.2 J	1.5 J	0.78 J	0.94 J	1.9 U	2.9 J	6.2	
Perfluorooctanoic acid (PFOA)	0.25	36400	22	8.9	9.2	2.2 J	0.59 J	0.7 J	3.4 J	1.1 J	1.1 J	0.94 U	4.6	3.9 J	
Perfluorononanoic acid (PFNA)	260	88	2.6	0.94 J	1 J	2 U	2 U	2 U	2.1 U	0.74 J	0.65 J	1.9 U	1.5 J	0.82 J	
Perfluorodecanoic acid (PFDA)	0.2	71.6	0.91 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluoroundecanoic acid (PFUnA)	-	-	1.3 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluorododecanoic acid (PFDoA)	-	-	0.91 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluorotridecanoic acid (PFTriDA)	-	-	1.3 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluorotetradecanoic acid (PFTeDA)	-	-	0.91 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluorobutanesulfonic acid (PFBS)	30000	160000	5.7	3.6 J	3.8 J	0.78 J	0.94 J	2 U	0.73 J	2 U	2 U	1.9 U	1.4 J	1.5 J	
Perfluoropentanesulfonic acid (PFPeS)	-	-	7.6	4.9 J	5.2	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	2.3 J	2.2 J	
Perfluorohexanesulfonic acid (PFHxS)	1800	10800	120	73.3	70.2	14.1	3.7 J	3.2 J	13.9	2.1 J	2 J	1.9 U	21.4	30.6	
Perfluoroheptanesulfonic acid (PFHpS)	-	-	1.7	1.5 J	1.7 J	0.5 J	2 U	2 U	2.1 U	2 U	2 U	1.9 U	1.2 J	0.61 J	
Perfluorooctanesulfonic acid (PFOS)	10	12.8	91	50.3	50.3	16.2	6.1	2 U	6.6	6	5.8	0.57 J	87.5	30.7	
Perfluorononanesulfonic acid (PFNS)	-	-	1.2 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluorodecanesulfonic acid (PFDS)	-	-	1.2 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluorododecanesulfonic acid (PFDoS)	-	-	0.91 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	-	-	3.4 U	7.9 U	7.9 U	8 U	8.2 U	8.1 U	8.3 U	7.9 U	8.1 U	7.5 U	8.2 U	7.9 U	
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	-	-	3.5 U	7.9 U	7.9 U	8 U	8.2 U	8.1 U	8.3 U	7.9 U	8.1 U	7.5 U	8.2 U	7.9 U	
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	-	-	5.1 U	7.9 U	7.9 U	8 U	8.2 U	8.1 U	8.3 U	7.9 U	8.1 U	7.5 U	8.2 U	7.9 U	
Perfluorooctane sulfonamide (PFOSA)	-	-	1.4 J	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	3 J	2 U	
N-methyl perfluorooctanesulfonamide (NMeFOSA)	-	-	1.3 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	-	-	1.3 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	-	1.3 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	-	0.91 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	-	-	9.1 U	20 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	19 U	21 U	20 U	
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	-	-	9.1 U	20 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	19 U	21 U	20 U	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11	-	3.6 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	-	-	3.4 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
Perfluoro-3-methoxypropanoic acid (PFMPA)	-	-	3.1 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
Perfluoro-4-methoxybutanoic acid (PFMBA)	-	-	1.3 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	-	-	27 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	-	3.4 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
11-Chlororeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	-	2.5 U	4 U	4 U	4 U	4.1 U	4 U	4.2 U	4 U	4 U	3.8 U	4.1 U	4 U	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	-	-	2.3 U	2 U	2 U	2 U	2 U	2 U	2.1 U	2 U	2 U	1.9 U	2.1 U	2 U	
3-Perfluoropropyl propanoic acid (3:3FTCA)	-	-	6.6 U	9.9 U	9.9 U	10 U	10 U	10 U	10 U	9.9 U	10 U	9.4 U	10 U	9.9 U	
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	-	-	33 U	20 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	19 U	21 U	20 U	
3-Perfluoroheptyl propanoic acid (7:3FTCA)	-	-	33 U	20 U	20 U	20 U	20 U	20 U	21 U	20 U	20 U	19 U	21 U	20 U	

Notes

- There is no current screening level protective of human health in porewater, however, the Swimming SL is presented as a surrogate for reference purposes only; the porewater data presented in this table are not evaluated against the Swimming SL.
- See Table 1-1 for additional notes and Table 1-3 for information about screening levels.

Table 4-7
Porewater PFAS Analytical Results

PFAS CERCLA Remedial Investigation Site Characterization Summary Report
Former Loring Air Force Base
Limestone, ME

Drainage Basin:			Greenlaw Brook						Reference location	
Location ID:			E-A-PW02V	E-A-PW02Z	E-A-PW03L	E-A-PW03V	E-A-PW03Z	E-A-PW04Z	E-A-PW01CS	E-A-PW01PB
Sample ID:			E-A-PW02V_20240919	E-A-PW02Z_20241023	E-A-PW03L_20241031	E-A-PW03V_20240919	E-A-PW03Z_20241023	E-A-PW04Z_20241023	E-A-PW01CS_20240819	E-A-PW01PB_20240819
Sample Date:			9/19/2024	10/23/2024	10/31/2024	9/19/2024	10/23/2024	10/23/2024	8/19/2024	8/19/2024
Sample Depth (ft bgs):			0.00-1.00	0.00-1.00	0.00-0.70	0.00-1.00	0.00-1.00	0.00-0.50	0.50-1.00	2.50-3.00
Sample Type:			N	N	N	N	N	N	N	N
Latitude:			46.93772733	46.91419665	46.94526257	46.93918331	46.91577731	46.91678896	46.90121394	46.82597064
Longitude:			-67.89648905	-67.93043162	-67.90959474	-67.896434	-67.92733325	-67.92736866	-68.10775838	-68.00893811
Analyte	Swimming SL (ng/L)	Eco SW PW Lowest Benchmark (ng/L)	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L	ng/L
Perfluorobutanoic acid (PFBA)	57000	75700	14.6 J	2.2 J	8.6 J	16	3.3 J	4.1 J	4 U	3 J
Perfluoropentanoic acid (PFPeA)	-	-	46.1	2.9 J	17.5	50.4	5.9 J	7.9	3.1 J	2 J
Perfluorohexanoic acid (PFHxA)	46000	33800	57.2	3.6 J	17.1	53.5	5.9	7.2	2 U	2 U
Perfluoroheptanoic acid (PFHpA)	-	-	19.6	2.6 J	11.2	17.6	6.1	4.5	2 U	2 U
Perfluorooctanoic acid (PFOA)	0.25	36400	56.5	3.5 J	11.9	37.9	13.5	6.9	1 U	0.73 J
Perfluorononanoic acid (PFNA)	260	88	2.6 J	0.63 J	2.2 J	6.3	2.3 J	0.9 J	2 U	2 U
Perfluorodecanoic acid (PFDA)	0.2	71.6	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Perfluoroundecanoic acid (PFUnA)	-	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Perfluorododecanoic acid (PFDoA)	-	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Perfluorotridecanoic acid (PFTriDA)	-	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Perfluorotetradecanoic acid (PFTeDA)	-	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Perfluorobutanesulfonic acid (PFBS)	30000	160000	9.6	1.9 J	5.5	7.2	3 J	1.8 J	2 U	2 U
Perfluoropentanesulfonic acid (PFPeS)	-	-	13.8	2.4 J	8	11	1.7 J	2.1 J	4 U	4 U
Perfluorohexanesulfonic acid (PFHxS)	1800	10800	347	26.7	64	190	21.3	27.8	2 U	2 U
Perfluoroheptanesulfonic acid (PFHpS)	-	-	7.1	0.73 J	3.3 J	3.9 J	1.3 J	0.87 J	2 U	2 U
Perfluorooctanesulfonic acid (PFOS)	10	12.8	249	24.6	166	217	32.5	26	0.76 J	2 U
Perfluorononanesulfonic acid (PFNS)	-	-	0.69 J	2 U	0.63 J	0.82 J	2 U	2 U	2 U	2 U
Perfluorodecanesulfonic acid (PFDS)	-	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Perfluorododecanesulfonic acid (PFDoS)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	-	-	7.7 U	8.1 U	8.1 U	8.2 U	8 U	7.9 U	8 U	8.1 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	-	-	29.5	8.1 U	8.1 U	17.1 J	8 U	7.9 U	8 U	8.1 U
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	-	-	7.7 U	8.1 U	8.1 U	8.2 U	8 U	7.9 U	8 U	8.1 U
Perfluorooctane sulfonamide (PFOSA)	-	-	4.5	2 U	0.74 J	5	2 U	2 U	2 U	2 U
N-methyl perfluorooctanesulfonamide (NMeFOSA)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	-	-	19 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	-	-	19 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	11	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
Perfluoro-3-methoxypropanoic acid (PFMPA)	-	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Perfluoro-4-methoxybutanoic acid (PFMBA)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
11-Chlororeicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	-	3.8 U	4 U	4 U	4.1 U	4 U	4 U	4 U	4 U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	-	-	1.9 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Perfluoropropyl propanoic acid (3:3FTCA)	-	-	9.6 U	10 U	10 U	10 U	10 U	9.9 U	10 U	10 U
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	-	-	19 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
3-Perfluoroheptyl propanoic acid (7:3FTCA)	-	-	19 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

Notes
- There is no current screening level protective of human health in porewater, however, the Swimming SL is presented as a surrogate for reference purposes only; the porewater data presented in this table are not evaluated against the Swimming SL.
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