

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

KOMAN, PFAS RI, Soil Boring Samples-Area 3

AO31, Former Moore Army Air Field Fire Training Area

	Locations: 31SB-19-01	31SB-19-01	31SB-19-01	31SB-19-01	31SB-19-01
Field Sample ID:	31SB-19-01-0.5-3	31SB-19-01-0-0.5	31SB-19-01-3-7	31SB-19-01-65-67	31SB-19-01-7-15
Sample Begin Depth:	0.50	0.00	3.00	65.00	7.00
Sample End Depth:	3.00	0.50	7.00	67.00	15.00
Sample Date:	10/16/2019	10/16/2019	10/16/2019	10/16/2019	10/16/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	1.90 J	5.10	1.30 J	4.00 J	3.30 J
8:2 Fluorotelomer sulfonate (8:2 FTS)	49.0	15.0	42.0 J	3.50	50.0 J
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.980 U	1.00 U	0.970 U	1.00 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.60 J	1.00 U	0.670 J	1.00 U	0.300 J
Perfluorobutanesulfonic acid (PFBS)	0.120 J	0.320 J	0.0690 J	0.180 U	0.160 J
Perfluorodecanoic acid (PFDA)	0.960	0.520	0.340	0.200 U	0.250 J
Perfluorododecanoic acid (PFDoA)	0.200 U	0.110 J	0.190 U	0.200 U	0.200 U
Perfluoroheptanoic acid (PFHpA)	0.510	0.430	0.430	0.200 U	0.380
Perfluorohexanesulfonic acid (PFHxS)	5.80	5.50	13.0	0.380	11.0 J
Perfluorohexanoic acid (PFHxA)	1.60	1.00	1.20	0.310 U	1.30
Perfluorononanoic acid (PFNA)	0.120 J	0.120 J	0.450	0.0960 J	0.410
Perfluorooctanesulfonic acid (PFOS)	33.0	65.0	530	95.0	470
Perfluorooctanoic acid (PFOA)	2.50	1.80	1.80	0.330	2.00
Perfluorotetradecanoic acid (PFTA)	0.290 U	0.310 U	0.290 U	0.310 U	0.300 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.210 U	0.190 U	0.200 U	0.200 U
Perfluoroundecanoic acid (PFUnA)	0.130 J	0.160 J	0.190 U	0.200 U	0.200 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: 31SB-19-02	31SB-19-02	31SB-19-02	31SB-19-02	31SB-19-02 (FD)
Field Sample ID:	31SB-19-02-0.5-3	31SB-19-02-0-0.5	31SB-19-02-3-7	31SB-19-02-7-15	A3-SB-DUP01-101719
Sample Begin Depth:	0.50	0.00	3.00	7.00	3.00
Sample End Depth:	3.00	0.50	7.00	15.00	7.00
Sample Date:	10/17/2019	10/17/2019	10/17/2019	10/17/2019	10/17/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	1.30 J	1.60 J	2.40 J	2.80 J	2.40 J
8:2 Fluorotelomer sulfonate (8:2 FTS)	3.70	3.30 J	43.0	62.0	34.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.00 U	1.20 U	1.00 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.480 J	0.380 J	3.30	3.60	1.80 J
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.0690 J	0.100 J	0.210 J	0.0850 J
Perfluorodecanoic acid (PFDA)	0.270 J	0.190 J	0.430	0.240 J	0.280 J
Perfluorododecanoic acid (PFDoA)	0.100 J	0.210 U	0.170 J	0.210 U	0.210 J
Perfluoroheptanoic acid (PFHpA)	0.230 J	0.120 J	0.500	0.170 J	0.470
Perfluorohexanesulfonic acid (PFHxS)	2.80	2.00	5.40	7.60	6.50
Perfluorohexanoic acid (PFHxA)	0.430	0.490	1.60	0.930	1.60
Perfluorononanoic acid (PFNA)	0.150 J	0.150 J	0.310 J	0.280 J	0.370
Perfluorooctanesulfonic acid (PFOS)	49.0 J	29.0 J	76.0 J	230 J	71.0 J
Perfluorooctanoic acid (PFOA)	1.10	0.640	2.00	1.50	2.30
Perfluorotetradecanoic acid (PFTA)	0.300 U	0.310 U	0.360 U	0.310 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.210 U	0.240 U	0.210 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.210 U	0.140 J	0.210 U	0.130 J

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: 31SB-19-03	31SB-19-03	31SB-19-03	31SB-19-03	31SB-19-04
Field Sample ID:	31SB-19-03-0.5-3	31SB-19-03-0-0.5	31SB-19-03-3-7	31SB-19-03-7-15	31SB-19-04-0.5-3
Sample Begin Depth:	0.50	0.00	3.00	7.00	0.50
Sample End Depth:	3.00	0.50	7.00	15.00	3.00
Sample Date:	10/17/2019	10/17/2019	10/17/2019	10/17/2019	10/16/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.00 U	2.10 U	1.50 J	0.730 J	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	6.00	1.40 J	29.0 J	17.0	27.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.400 J	1.00 U	0.440 J	0.330 J	0.760 J
Perfluorobutanesulfonic acid (PFBS)	0.0860 J	0.0930 J	0.500	0.120 J	0.180 U
Perfluorodecanoic acid (PFDA)	0.300 J	0.210 U	0.140 J	0.120 J	0.530
Perfluorododecanoic acid (PFDoA)	0.200 U	0.210 U	0.200 U	0.200 U	0.200 U
Perfluoroheptanoic acid (PFHpA)	0.150 J	0.120 J	0.210 J	0.140 J	0.200 J
Perfluorohexanesulfonic acid (PFHxS)	1.60	2.50	7.80	3.60	1.50
Perfluorohexanoic acid (PFHxA)	0.310	0.420	0.990	0.390	0.370
Perfluorononanoic acid (PFNA)	0.0900 J	0.210 U	0.230 J	0.190 J	0.130 J
Perfluorooctanesulfonic acid (PFOS)	25.0 J	18.0 J	190 J	180 J	26.0 J
Perfluorooctanoic acid (PFOA)	0.760	0.630	2.60	1.30	0.770
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.310 U	0.300 U	0.310 U	0.300 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.210 U	0.200 U	0.200 U	0.200 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.210 U	0.200 U	0.200 U	0.130 J

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: 31SB-19-04	31SB-19-04	31SB-19-04	31SB-19-05	31SB-19-05
Field Sample ID:	31SB-19-04-0-0.5	31SB-19-04-3-7	31SB-19-04-7-15	31SB-19-05-0.5-3	31SB-19-05-0-0.5
Sample Begin Depth:	0.00	3.00	7.00	0.50	0.00
Sample End Depth:	0.50	7.00	15.00	3.00	0.50
Sample Date:	10/16/2019	10/16/2019	10/16/2019	10/17/2019	10/17/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	0.730 J	1.90 U	2.00 U	200 U	0.810 J
8:2 Fluorotelomer sulfonate (8:2 FTS)	3.50	84.0	20.0	16.0	13.0
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.10 U	0.950 U	0.990 U	1.00 U	0.680 J
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.10 U	1.10 J	0.430 J	0.360 J	2.10
Perfluorobutanesulfonic acid (PFBS)	0.0690 J	0.170 U	0.180 U	0.180 U	0.100 J
Perfluorodecanoic acid (PFDA)	0.200 J	0.230 J	0.120 J	0.200 U	0.610
Perfluorododecanoic acid (PFDoA)	0.120 J	0.190 U	0.200 U	0.200 U	0.190 J
Perfluoroheptanoic acid (PFHpA)	0.160 J	0.130 J	0.0950 J	0.310	0.390
Perfluorohexanesulfonic acid (PFHxS)	2.00	1.30	2.40	35.0	2.60
Perfluorohexanoic acid (PFHxA)	0.380	0.440	0.370	0.680	0.860
Perfluorononanoic acid (PFNA)	0.210 U	0.100 J	0.0900 J	0.250 J	0.450
Perfluorooctanesulfonic acid (PFOS)	13.0 J	31.0 J	74.0 J	360	35.0 J
Perfluorooctanoic acid (PFOA)	0.700	0.700	0.830	12.0	2.50
Perfluorotetradecanoic acid (PFTA)	0.320 U	0.290 U	0.300 U	0.300 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.190 U	0.200 U	0.200 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.130 J	0.190 U	0.200 U	0.200 U	0.230 J

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: 31SB-19-05	31SB-19-05	31SB-19-06	31SB-19-06	31SB-19-07
Field Sample ID:	31SB-19-05-3-7	31SB-19-05-7-15	31SB-19-06-0-1	31SB-19-06-3-7	31-CONCRETE_OCT19
Sample Begin Depth:	3.00	7.00	0.00	3.00	0.00
Sample End Depth:	7.00	15.00	1.00	7.00	1.00
Sample Date:	10/17/2019	10/17/2019	10/16/2019	10/16/2019	10/16/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	56.0	26.0 J	2.10 U	2.30 U	9.50
8:2 Fluorotelomer sulfonate (8:2 FTS)	0.320 J	5.20	1.00 U	1.10 U	7.20
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.20 U	1.00 U	1.10 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.00 U	1.20 U	1.00 U	1.10 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.220 U	0.190 U	0.200 U	2.50
Perfluorodecanoic acid (PFDA)	0.200 U	0.240 U	0.210 U	0.230 U	0.210 U
Perfluorododecanoic acid (PFDoA)	0.200 U	0.240 U	0.210 U	0.230 U	0.210 U
Perfluoroheptanoic acid (PFHpA)	0.370	0.240 J	0.0940 J	0.230 U	1.60
Perfluorohexanesulfonic acid (PFHxS)	67.0	25.0	0.330	0.960	41.0
Perfluorohexanoic acid (PFHxA)	0.540	0.530	0.310 U	0.0980 J	7.30
Perfluorononanoic acid (PFNA)	0.200 U	0.130 J	0.210 U	0.120 J	0.210 U
Perfluorooctanesulfonic acid (PFOS)	53.0 J	150 J	7.10	140 J	95.0
Perfluorooctanoic acid (PFOA)	53.0	22.0	0.110 J	0.140 J	4.90
Perfluorotetradecanoic acid (PFTA)	0.300 U	0.360 U	0.310 U	0.340 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.240 U	0.210 U	0.230 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.240 U	0.210 U	0.230 U	0.210 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: 31SB-19-07	31SB-19-07	31SB-19-07 (FD)
Field Sample ID:	31SB-19-07-0-1	31SB-19-07-3-7	A3-SB-DUP01-101619
Sample Begin Depth:	0.00	3.00	3.00
Sample End Depth:	1.00	7.00	7.00
Sample Date:	10/16/2019	10/16/2019	10/16/2019
PFAS (ug/kg)			
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.10 U	2.00 U	2.30 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	0.840 J	1.00 U	1.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.600 J	1.00 U	1.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.60	1.00 U	1.10 U
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.110 J	0.100 J
Perfluorodecanoic acid (PFDA)	0.210 U	0.200 U	0.230 U
Perfluorododecanoic acid (PFDoA)	0.210 U	0.200 U	0.230 U
Perfluoroheptanoic acid (PFHpA)	0.120 J	0.170 J	0.190 J
Perfluorohexanesulfonic acid (PFHxS)	12.0	15.0	17.0
Perfluorohexanoic acid (PFHxA)	0.460 U	0.500	0.540
Perfluorononanoic acid (PFNA)	0.210 U	0.0960 J	0.0990 J
Perfluorooctanesulfonic acid (PFOS)	120	250	220
Perfluorooctanoic acid (PFOA)	2.10	3.00	3.50
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.310 U	0.340 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.200 U	0.230 U
Perfluoroundecanoic acid (PFUnA)	0.210 U	0.200 U	0.230 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

Detects are displayed in bold font

Data Qualifier Definitions

J: The analyte was positively identified, but the associated numerical value is estimated and represents the approximate concentration of the analyte in the sample.
U: The analyte was not detected above the reported sample quantitation limit.
UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

Units

MG/KG = milligrams per kilogram
NG/L = nanograms per liter
PERCENT = percent
PPT = parts per thousand
UG/KG = microgram per kilogram
UG/L = microgram per liter