

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

KOMAN, PFAS RI, Surface Water/Sediment-Background

Background

Locations:	NRBK-19-01	NRBK-19-01	NRBK-19-02	NRBK-19-02	SR-19-01
Field Sample ID:	NRBK-SED-19-01-DEC19	NRBK-SW-19-01-DEC19	NRBK-SED-19-02-DEC19	NRBK-SW-19-02-DEC19	SR-SED-19-01-DEC19
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.50	0.00	0.50	0.00	0.50
Sample Date:	12/20/2019	12/20/2019	12/20/2019	12/20/2019	12/18/2019

Gen. Chemistry (mg/kg)

Total Organic Carbon	11000	-	22000	-	26000
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PFAS (ng/L)

6:2 Fluorotelomer sulfonate (6:2 FTS)	-	19.0 U	-	19.0 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	9.40 U	-	9.50 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	9.40 U	-	9.50 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	9.40 U	-	9.50 U	-
Perfluorobutanesulfonic acid (PFBS)	-	2.90	-	3.20	-
Perfluorodecanoic acid (PFDA)	-	0.940 U	-	0.950 U	-
Perfluorododecanoic acid (PFDoA)	-	1.40 U	-	1.40 U	-
Perfluoroheptanoic acid (PFHpA)	-	5.20	-	5.30	-
Perfluorohexanesulfonic acid (PFHxS)	-	1.30 J	-	1.30 J	-
Perfluorohexanoic acid (PFHxA)	-	8.70	-	8.80	-
Perfluorononanoic acid (PFNA)	-	1.10 J	-	1.20 J	-
Perfluorooctanesulfonic acid (PFOS)	-	4.00	-	4.20	-
Perfluorooctanoic acid (PFOA)	-	10.0	-	10.0	-
Perfluorotetradecanoic acid (PFTA)	-	2.80 U	-	2.80 U	-
Perfluorotridecanoic acid (PFTrDA)	-	2.80 U	-	2.80 U	-
Perfluoroundecanoic acid (PFUnA)	-	1.40 U	-	1.40 U	-

PFAS (ug/kg)

6:2 Fluorotelomer sulfonate (6:2 FTS)	3.00 U	-	2.90 U	-	3.30 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.50 U	-	1.40 U	-	1.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.50 U	-	1.40 U	-	1.60 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.50 U	-	1.40 U	-	0.620 J
Perfluorobutanesulfonic acid (PFBS)	0.270 U	-	0.260 U	-	0.290 U
Perfluorodecanoic acid (PFDA)	0.300 U	-	0.170 J	-	0.550
Perfluorododecanoic acid (PFDoA)	0.300 U	-	0.290 U	-	0.330 U

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Locations: SR-19-01	SR-19-01 (FD)	SR-19-01 (FD)	WAB-19-01	WAB-19-01
Field Sample ID: SR-SW-19-01-DEC19	BK-SED-DUP-121819	BK-SW-DUP-121819	WAB-SED-19-01-DEC19	WAB-SW-19-01-DEC19
Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
Sample End Depth: 0.00	0.50	0.00	0.50	0.00
Sample Date: 12/18/2019	12/18/2019	12/18/2019	12/18/2019	12/18/2019

Gen. Chemistry (mg/kg)

Total Organic Carbon	-	23000	-	2200	-
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PFAS (ng/L)

6:2 Fluorotelomer sulfonate (6:2 FTS)	20.0 U	-	19.0 U	-	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.80 U	-	9.50 U	-	9.90 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.80 U	-	9.50 U	-	9.90 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.80 U	-	9.50 U	-	9.90 U
Perfluorobutanesulfonic acid (PFBS)	0.600 J	-	0.550 J	-	7.80
Perfluorodecanoic acid (PFDA)	0.980 U	-	0.950 U	-	0.990 U
Perfluorododecanoic acid (PFDoA)	1.50 U	-	1.40 U	-	1.50 U
Perfluoroheptanoic acid (PFHpA)	2.40	-	2.50	-	6.10
Perfluorohexanesulfonic acid (PFHxS)	0.890 J	-	0.920 J	-	1.20 J
Perfluorohexanoic acid (PFHxA)	8.20	-	8.00	-	33.0
Perfluorononanoic acid (PFNA)	0.620 J	-	0.630 J	-	1.50 U
Perfluorooctanesulfonic acid (PFOS)	2.80 J	-	2.60 J	-	1.50 J
Perfluorooctanoic acid (PFOA)	7.80	-	7.90	-	6.20
Perfluorotetradecanoic acid (PFTA)	2.90 U	-	2.90 U	-	3.00 U
Perfluorotridecanoic acid (PFTrDA)	2.90 U	-	2.90 U	-	3.00 U
Perfluoroundecanoic acid (PFUnA)	1.50 U	-	1.40 U	-	1.50 U

PFAS (ug/kg)

6:2 Fluorotelomer sulfonate (6:2 FTS)	-	3.40 U	-	2.40 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	1.70 U	-	1.20 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	1.70 U	-	1.20 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	0.530 J	-	1.20 U	-
Perfluorobutanesulfonic acid (PFBS)	-	0.300 U	-	0.220 U	-
Perfluorodecanoic acid (PFDA)	-	0.540	-	0.240 U	-
Perfluorododecanoic acid (PFDoA)	-	0.340 U	-	0.240 U	-

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	Locations: NRBK-19-01	NRBK-19-01	NRBK-19-02	NRBK-19-02	SR-19-01
Field Sample ID:	NRBK-SED-19-01-DEC19	NRBK-SW-19-01-DEC19	NRBK-SED-19-02-DEC19	NRBK-SW-19-02-DEC19	SR-SED-19-01-DEC19
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.50	0.00	0.50	0.00	0.50
Sample Date:	12/20/2019	12/20/2019	12/20/2019	12/20/2019	12/18/2019
Perfluoroheptanoic acid (PFHpA)	0.300 U	-	0.290 U	-	0.800
Perfluorohexanesulfonic acid (PFHxS)	0.300 U	-	0.430 U	-	0.490 U
Perfluorohexanoic acid (PFHxA)	0.300 U	-	0.290 U	-	0.850
Perfluorononanoic acid (PFNA)	0.300 U	-	0.290 U	-	0.770
Perfluorooctanesulfonic acid (PFOS)	0.420 J	-	0.750 J	-	7.90
Perfluorooctanoic acid (PFOA)	0.300 U	-	0.180 J	-	2.70
Perfluorotetradecanoic acid (PFTA)	0.460 U	-	0.430 U	-	0.490 U
Perfluorotridecanoic acid (PFTrDA)	0.300 U	-	0.290 U	-	0.330 U
Perfluoroundecanoic acid (PFUnA)	0.300 U	-	0.290 U	-	0.210 J

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	Locations: SR-19-01	SR-19-01 (FD)	SR-19-01 (FD)	WAB-19-01	WAB-19-01
Field Sample ID:	SR-SW-19-01-DEC19	BK-SED-DUP-121819	BK-SW-DUP-121819	WAB-SED-19-01-DEC19	WAB-SW-19-01-DEC19
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.50	0.00	0.50	0.00
Sample Date:	12/18/2019	12/18/2019	12/18/2019	12/18/2019	12/18/2019
Perfluoroheptanoic acid (PFHpA)	-	0.830	-	0.240 U	-
Perfluorohexanesulfonic acid (PFHxS)	-	0.500 U	-	0.240 U	-
Perfluorohexanoic acid (PFHxA)	-	0.850	-	0.140 J	-
Perfluorononanoic acid (PFNA)	-	0.840	-	0.240 U	-
Perfluorooctanesulfonic acid (PFOS)	-	7.50	-	0.720 J	-
Perfluorooctanoic acid (PFOA)	-	2.80	-	0.240 U	-
Perfluorotetradecanoic acid (PFTA)	-	0.500 U	-	0.370 U	-
Perfluorotridecanoic acid (PFTrDA)	-	0.340 U	-	0.240 U	-
Perfluoroundecanoic acid (PFUnA)	-	0.190 J	-	0.240 U	-

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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