

Former Fort Devens, Stage 2A Validation – Electronic Data Loaded Between 9/24/2018 and 4/17/2020

KOMAN, PFAS RI, Surface Water/Sediment-Cold Spring Brook

Cold Spring Brook

	Locations: CSB-20-02	CSB-20-02	CSB-20-03	CSB-20-03	CSB-20-03 (FD)
Field Sample ID:	CSB-20-02-SED-MAR20	CSB-20-02-SW-MAR20	CSB-20-03-SED-MAR20	CSB-20-03-SW-MAR20	CSB-SED-FD01
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:	03/27/2020	03/27/2020	03/26/2020	03/26/2020	03/26/2020
Gen. Chemistry (mg/kg)					
Total Organic Carbon	120000	-	150000 J	-	210000 J
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	17.0 U	-	16.0 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	8.50 U	-	8.20 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	8.50 U	-	8.20 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	8.50 U	-	8.20 U	-
Perfluorobutanesulfonic acid (PFBS)	-	4.30	-	3.30	-
Perfluorodecanoic acid (PFDA)	-	0.850 U	-	0.820 U	-
Perfluorododecanoic acid (PFDoA)	-	1.30 U	-	1.20 U	-
Perfluoroheptanoic acid (PFHpA)	-	5.30	-	3.90	-
Perfluorohexanesulfonic acid (PFHxS)	-	110	-	77.0	-
Perfluorohexanoic acid (PFHxA)	-	16.0	-	12.0	-
Perfluorononanoic acid (PFNA)	-	0.440 J	-	1.20 U	-
Perfluorooctanesulfonic acid (PFOS)	-	41.0	-	33.0	-
Perfluorooctanoic acid (PFOA)	-	28.0	-	22.0	-
Perfluorotetradecanoic acid (PFTA)	-	2.60 U	-	2.50 U	-
Perfluorotridecanoic acid (PFTrDA)	-	2.60 U	-	2.50 U	-
Perfluoroundecanoic acid (PFUnA)	-	1.30 U	-	1.20 U	-
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	7.50 U	-	5.40 U	-	5.90 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	3.80 U	-	2.70 U	-	2.90 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	3.80 U	-	2.70 U	-	2.90 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.80 U	-	2.70 U	-	2.90 U
Perfluorobutanesulfonic acid (PFBS)	0.680 U	-	0.480 U	-	0.530 U
Perfluorodecanoic acid (PFDA)	0.750 U	-	0.540 U	-	0.590 U

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	Locations: CSB-20-03 (FD)	CSB-20-04	CSB-20-04	CSB-20-05	CSB-20-05
Field Sample ID:	CSB-SW-FD01	CSB-20-04-SED-MAR20	CSB-20-04-SW-MAR20	CSB-20-05-SED-MAR20	CSB-20-05-SW-MAR20
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:	03/26/2020	03/26/2020	03/26/2020	03/26/2020	03/26/2020
Gen. Chemistry (mg/kg)					
Total Organic Carbon	-	4100	-	120000	-
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	16.0 U	-	16.0 U	-	17.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	8.10 U	-	8.20 U	-	8.30 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	8.10 U	-	8.20 U	-	8.30 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	8.10 U	-	8.20 U	-	8.30 U
Perfluorobutanesulfonic acid (PFBS)	3.40	-	11.0	-	8.90
Perfluorodecanoic acid (PFDA)	0.810 U	-	0.500 J	-	0.830 U
Perfluorododecanoic acid (PFDoA)	1.20 U	-	1.20 U	-	1.20 U
Perfluoroheptanoic acid (PFHpA)	4.30	-	210	-	46.0
Perfluorohexanesulfonic acid (PFHxS)	80.0	-	110 J	-	6.60
Perfluorohexanoic acid (PFHxA)	11.0	-	140 J	-	93.0
Perfluorononanoic acid (PFNA)	1.20 U	-	3.10	-	0.710 J
Perfluorooctanesulfonic acid (PFOS)	31.0	-	35.0	-	2.80 J
Perfluorooctanoic acid (PFOA)	21.0	-	190	-	80.0
Perfluorotetradecanoic acid (PFTA)	2.40 U	-	2.50 U	-	2.50 U
Perfluorotridecanoic acid (PFTrDA)	2.40 U	-	2.50 U	-	2.50 U
Perfluoroundecanoic acid (PFUnA)	1.20 U	-	1.20 U	-	1.20 U
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	2.40 U	-	6.30 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	1.20 U	-	3.20 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	1.20 U	-	3.20 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	1.20 U	-	3.20 U	-
Perfluorobutanesulfonic acid (PFBS)	-	0.210 U	-	0.570 U	-
Perfluorodecanoic acid (PFDA)	-	0.240 U	-	0.630 U	-

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Locations: CSB-20-06	CSB-20-06
Field Sample ID: CSB-20-06-SED-MAR20	CSB-20-06-SW-MAR20
Sample Begin Depth: 0.00	0.00
Sample End Depth: 0.50	0.00
Sample Date: 03/26/2020	03/26/2020

Gen. Chemistry (mg/kg)		
Total Organic Carbon	12000	-

PFAS (ng/L)		
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	16.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	8.20 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	8.20 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	8.20 U
Perfluorobutanesulfonic acid (PFBS)	-	0.800 J
Perfluorodecanoic acid (PFDA)	-	0.400 J
Perfluorododecanoic acid (PFDoA)	-	1.20 U
Perfluoroheptanoic acid (PFHpA)	-	17.0
Perfluorohexanesulfonic acid (PFHxS)	-	2.90
Perfluorohexanoic acid (PFHxA)	-	16.0
Perfluorononanoic acid (PFNA)	-	0.920 J
Perfluorooctanesulfonic acid (PFOS)	-	4.10
Perfluorooctanoic acid (PFOA)	-	26.0
Perfluorotetradecanoic acid (PFTA)	-	2.50 U
Perfluorotridecanoic acid (PFTrDA)	-	2.50 U
Perfluoroundecanoic acid (PFUnA)	-	1.20 U

PFAS (ug/kg)		
6:2 Fluorotelomer sulfonate (6:2 FTS)	3.10 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.60 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.60 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.60 U	-
Perfluorobutanesulfonic acid (PFBS)	0.280 U	-
Perfluorodecanoic acid (PFDA)	0.310 U	-

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	Locations: CSB-20-02	CSB-20-02	CSB-20-03	CSB-20-03	CSB-20-03 (FD)
Field Sample ID:	CSB-20-02-SED-MAR20	CSB-20-02-SW-MAR20	CSB-20-03-SED-MAR20	CSB-20-03-SW-MAR20	CSB-SED-FD01
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:	03/27/2020	03/27/2020	03/26/2020	03/26/2020	03/26/2020
Perfluorododecanoic acid (PFDoA)	0.750 U	-	0.540 U	-	0.590 U
Perfluoroheptanoic acid (PFHpA)	0.750 U	-	0.540 U	-	0.590 U
Perfluorohexanesulfonic acid (PFHxS)	6.30	-	1.80 U	-	1.70 U
Perfluorohexanoic acid (PFHxA)	1.10 U	-	0.540 U	-	0.590 U
Perfluorononanoic acid (PFNA)	0.750 U	-	0.540 U	-	0.590 U
Perfluorooctanesulfonic acid (PFOS)	4.40	-	1.30 U	-	1.50 U
Perfluorooctanoic acid (PFOA)	1.10	-	0.540 U	-	0.590 U
Perfluorotetradecanoic acid (PFTA)	1.10 U	-	0.800 U	-	0.880 U
Perfluorotridecanoic acid (PFTTrDA)	0.750 U	-	0.540 U	-	0.590 U
Perfluoroundecanoic acid (PFUnA)	0.750 U	-	0.540 U	-	0.590 U

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	Locations: CSB-20-03 (FD)	CSB-20-04	CSB-20-04	CSB-20-05	CSB-20-05
	Field Sample ID: CSB-SW-FD01	CSB-20-04-SED-MAR20	CSB-20-04-SW-MAR20	CSB-20-05-SED-MAR20	CSB-20-05-SW-MAR20
	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: 03/26/2020	03/26/2020	03/26/2020	03/26/2020	03/26/2020
Perfluorododecanoic acid (PFDoA)	-	0.240 U	-	0.630 U	-
Perfluoroheptanoic acid (PFHpA)	-	0.960	-	0.630 U	-
Perfluorohexanesulfonic acid (PFHxS)	-	0.360 U	-	0.950 U	-
Perfluorohexanoic acid (PFHxA)	-	0.620	-	0.950 U	-
Perfluorononanoic acid (PFNA)	-	0.240 U	-	0.630 U	-
Perfluorooctanesulfonic acid (PFOS)	-	2.20	-	1.60 U	-
Perfluorooctanoic acid (PFOA)	-	0.940	-	0.460 J	-
Perfluorotetradecanoic acid (PFTA)	-	0.360 U	-	0.950 U	-
Perfluorotridecanoic acid (PFTTrDA)	-	0.240 U	-	0.630 U	-
Perfluoroundecanoic acid (PFUnA)	-	0.240 U	-	0.630 U	-

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Locations:	CSB-20-06	CSB-20-06
Field Sample ID:	CSB-20-06-SED-MAR20	CSB-20-06-SW-MAR20
Sample Begin Depth:	0.00	0.00
Sample End Depth:	0.50	0.00
Sample Date:	03/26/2020	03/26/2020
Perfluorododecanoic acid (PFDoA)	0.310 U	-
Perfluoroheptanoic acid (PFHpA)	0.310 U	-
Perfluorohexanesulfonic acid (PFHxS)	0.310 U	-
Perfluorohexanoic acid (PFHxA)	0.310 U	-
Perfluorononanoic acid (PFNA)	0.310 U	-
Perfluorooctanesulfonic acid (PFOS)	0.530 J	-
Perfluorooctanoic acid (PFOA)	0.310 U	-
Perfluorotetradecanoic acid (PFTA)	0.470 U	-
Perfluorotridecanoic acid (PFTTrDA)	0.310 U	-
Perfluoroundecanoic acid (PFUnA)	0.310 U	-

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S2AVE: EPA Stage 2A electronic review of data as defined in 'Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use', 13 January 2009. Data elements present in the Electronic Data Deliverable (EDD) and included in the project's electronic Quality Assurance Project Plan (eQAPP) were evaluated using automated data review software only.

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.
- R: The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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