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

KOMAN, PFAS RI, AOC 57/43G Supplemental MW Winter 2020

AOC 43G, Army Air Force Exchange Service (AAFES) Gas Station and Historical Gas Station G

Locations:	XGM-20-01A	XGM-20-01A (FD)	XGM-20-02A	XGM-20-03A
Field Sample ID:	XGM-20-01A_FEB20	43GMW-DUP01_FEB20	XGM-20-02A_FEB20	XGM-20-03A_FEB20
Sample Begin Depth:	10.50	10.50	13.00	20.00
Sample End Depth:	20.50	20.50	23.00	30.00
Sample Date:	02/21/2020	02/21/2020	02/21/2020	02/21/2020
PFAS (ng/L)				
6:2 Fluorotelomer sulfonate (6:2 FTS)	19.0 U	18.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.30 U	9.20 U	9.10 U	9.20 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.30 U	9.20 U	9.10 U	9.20 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.30 U	9.20 U	9.10 U	9.20 U
Perfluorobutanesulfonic acid (PFBS)	**6.90**	**7.10**	**4.80**	**5.30**
Perfluorodecanoic acid (PFDA)	**0.780 J**	**0.710 J**	**1.10 J**	0.920 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**15.0**	**16.0**	**7.50**	**12.0**
Perfluorohexanesulfonic acid (PFHxS)	**200**	**200**	**72.0**	**230**
Perfluorohexanoic acid (PFHxA)	**40.0**	**40.0**	**16.0**	**69.0**
Perfluorononanoic acid (PFNA)	**7.50**	**7.30**	**4.50**	**1.10 J**
Perfluorooctanesulfonic acid (PFOS)	**250**	**250**	**140**	**100**
Perfluorooctanoic acid (PFOA)	**93.0**	**95.0**	**39.0**	**67.0**
Perfluorotetradecanoic acid (PFTA)	2.80 U	2.80 U	2.70 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)	2.80 U	2.80 U	2.70 U	2.80 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U

KOMAN, PFAS RI, Existing Monitoring Wells-Area 2

AOC 43G, Army Air Force Exchange Service (AAFES) Gas Station and Historical Gas Station G

Locations:	AAFES-2	AAFES-5	AAFES-6R	AAFES-7	XGM-93-02X
Field Sample ID:	AAFES-2-DEC18	AAFES-5-DEC18	AAFES-6R-JAN19	AAFES-7-JAN19	XGM-93-02X-DEC18
Sample Begin Depth:	16.20	15.50	15.00	4.50	28.00
Sample End Depth:	31.20	30.50	25.00	14.50	38.00
Sample Date:	12/18/2018	12/17/2018	01/15/2019	01/04/2019	12/17/2018
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	17.0 U	18.0 U	18.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	8.70 U	9.10 U	8.90 U	8.80 U	8.90 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	8.70 U	9.10 U	8.90 U	8.80 U	8.90 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	8.70 U	9.10 U	8.90 U	8.80 U	8.90 U
Perfluorobutanesulfonic acid (PFBS)	**60.0**	**53.0**	**2.90**	**7.60**	**3.90**
Perfluorodecanoic acid (PFDA)	0.870 U	0.910 U	0.890 U	0.880 U	**0.540 J**
Perfluorododecanoic acid (PFDoA)	1.30 U	1.40 U	1.30 U	1.30 U	1.30 U
Perfluoroheptanoic acid (PFHpA)	**55.0**	**120**	**9.60**	**22.0**	**11.0**
Perfluorohexanesulfonic acid (PFHxS)	**1000**	**2800**	**21.0**	**350**	**40.0**
Perfluorohexanoic acid (PFHxA)	**750**	**620**	**13.0**	**100**	**21.0**
Perfluorononanoic acid (PFNA)	**1.40 J**	**7.30**	**1.30 J**	**2.00**	**0.760 J**
Perfluorooctanesulfonic acid (PFOS)	**130**	**1300**	**20.0**	**100**	**14.0**
Perfluorooctanoic acid (PFOA)	**190**	**890**	**19.0**	**110**	**23.0**
Perfluorotetradecanoic acid (PFTA)	2.60 U	2.70 U	2.70 U	2.60 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.60 U	2.70 U	2.70 U	2.60 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.30 U	1.40 U	1.30 U	1.30 U	1.30 U

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Locations:	XGM-94-04X	XGM-94-04X (FD)	XGM-94-06X	XGM-94-07X	XGM-94-08X
Field Sample ID:	XGM-94-04X-JAN19	A2-MW-DUP-011519	XGM-94-06X-JAN19	XGM-94-07X-JAN19	XGM-94-08X-DEC18
Sample Begin Depth:	18.20	18.20	0.00	17.00	23.50
Sample End Depth:	28.20	28.20	0.00	27.00	33.50
Sample Date:	01/15/2019	01/15/2019	01/14/2019	01/04/2019	12/18/2018
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	17.0 U	18.0 U	17.0 U	17.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	8.60 U	8.80 U	8.60 U	8.70 U	8.80 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	8.60 U	8.80 U	8.60 U	8.70 U	8.80 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	8.60 U	8.80 U	8.60 U	8.70 U	8.80 U
Perfluorobutanesulfonic acid (PFBS)	**2.60**	**2.90**	**2.90**	**24.0**	**2.40**
Perfluorodecanoic acid (PFDA)	0.860 U	0.880 U	**0.820 J**	**0.580 J**	0.880 U
Perfluorododecanoic acid (PFDoA)	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U
Perfluoroheptanoic acid (PFHpA)	**7.80**	**7.90**	**8.60**	**57.0**	**9.50**
Perfluorohexanesulfonic acid (PFHxS)	**18.0**	**19.0**	**84.0**	**890**	**18.0**
Perfluorohexanoic acid (PFHxA)	**12.0**	**12.0**	**18.0**	**470**	**14.0**
Perfluorononanoic acid (PFNA)	**0.740 J**	**0.770 J**	**1.80**	**2.30**	**1.10 J**
Perfluorooctanesulfonic acid (PFOS)	**14.0**	**15.0**	**130**	**290**	**16.0**
Perfluorooctanoic acid (PFOA)	**17.0**	**18.0**	**31.0**	**210**	**18.0**
Perfluorotetradecanoic acid (PFTA)	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U
Perfluorotridecanoic acid (PFTrDA)	2.60 U	2.60 U	2.60 U	2.60 U	2.60 U
Perfluoroundecanoic acid (PFUnA)	1.30 U	1.30 U	1.30 U	1.30 U	1.30 U

Locations:	XGM-94-10X	XGM-94-10X (FD)	XGM-97-12X
Field Sample ID:	XGM-94-10X-JAN19	A2-MW-DUP09-010419	XGM-97-12X-DEC18
Sample Begin Depth:	21.50	21.50	24.00
Sample End Depth:	31.50	31.50	34.00
Sample Date:	01/04/2019	01/04/2019	12/17/2018
PFAS (ng/L)			
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	8.90 U	8.90 U	8.90 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	8.90 U	8.90 U	8.90 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	8.90 U	8.90 U	8.90 U
Perfluorobutanesulfonic acid (PFBS)	**2.70**	**2.80**	**2.20**
Perfluorodecanoic acid (PFDA)	0.890 U	0.890 U	0.890 U
Perfluorododecanoic acid (PFDoA)	1.30 U	1.30 U	1.30 U
Perfluoroheptanoic acid (PFHpA)	**9.10**	**9.80**	**4.80**
Perfluorohexanesulfonic acid (PFHxS)	**17.0**	**17.0**	**96.0**
Perfluorohexanoic acid (PFHxA)	**14.0**	**15.0**	**9.90**
Perfluorononanoic acid (PFNA)	**1.50 J**	**1.60 J**	**0.730 J**
Perfluorooctanesulfonic acid (PFOS)	**17.0**	**17.0**	**8.40**
Perfluorooctanoic acid (PFOA)	**18.0**	**18.0**	**32.0**
Perfluorotetradecanoic acid (PFTA)	2.70 U	2.70 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.70 U	2.70 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.30 U	**1.60 J**	1.30 U

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KOMAN, PFAS RI, Supplemental Monitoring Wells/Round 2-Spring 2020

AOC 43G, Army Air Force Exchange Service (AAFES) Gas Station and Historical Gas Station G

Locations:	AAFES-5	AAFES-5 (FD)	AAFES-7
Field Sample ID:	AAFES-5_SPR20	43G-DUP_050820	AAFES-7_SPR20
Sample Begin Depth:	15.22	15.22	4.50
Sample End Depth:	30.50	30.50	14.50
Sample Date:	05/08/2020	05/08/2020	05/08/2020
PFAS (ng/L)			
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	8.80 U	9.30 U	9.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	8.80 U	9.30 U	9.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	8.80 U	9.30 U	9.00 U
Perfluorobutanesulfonic acid (PFBS)	**56.0**	**53.0**	**6.20**
Perfluorodecanoic acid (PFDA)	**0.480 J**	0.930 U	0.900 U
Perfluorododecanoic acid (PFDoA)	1.30 U	1.40 U	1.30 U
Perfluoroheptanoic acid (PFHpA)	**180**	**150**	**16.0**
Perfluorohexanesulfonic acid (PFHxS)	**3000**	**2900**	**220**
Perfluorohexanoic acid (PFHxA)	**1100**	**960**	**66.0**
Perfluorononanoic acid (PFNA)	**5.50**	**5.30**	**1.50 J**
Perfluorooctanesulfonic acid (PFOS)	**1200**	**1100**	**110**
Perfluorooctanoic acid (PFOA)	**1200**	**1200**	**85.0**
Perfluorotetradecanoic acid (PFTA)	2.60 U	2.80 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.60 U	2.80 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.30 U	1.40 U	1.30 U

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

KOMAN, PFAS RI, Supplemental Monitoring Wells-Fall 2019

AOC 43G, Army Air Force Exchange Service (AAFES) Gas Station and Historical Gas Station G

Locations:	AAFES-5	AAFES-5 (FD)	AAFES-7
Field Sample ID:	AAFES-5_FAL19	43G-DUP_110119	AAFES-7_FAL19
Sample Begin Depth:	15.22	15.22	4.50
Sample End Depth:	30.50	30.50	14.50
Sample Date:	11/01/2019	11/01/2019	10/14/2019
PFAS (ng/L)			
6:2 Fluorotelomer sulfonate (6:2 FTS)	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.60 U	9.60 U	9.50 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.60 U	9.60 U	9.50 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.60 U	9.60 U	9.50 U
Perfluorobutanesulfonic acid (PFBS)	**47.0**	**52.0**	**6.40**
Perfluorodecanoic acid (PFDA)	**0.500 J**	**0.550 J**	0.950 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**100**	**110**	**16.0**
Perfluorohexanesulfonic acid (PFHxS)	**3800**	**4100**	**260**
Perfluorohexanoic acid (PFHxA)	**270**	**280**	**110**
Perfluorononanoic acid (PFNA)	**8.30**	**8.10**	**1.90**
Perfluorooctanesulfonic acid (PFOS)	**1300**	**1400**	**120**
Perfluorooctanoic acid (PFOA)	**1800**	**1900**	**79.0**
Perfluorotetradecanoic acid (PFTA)	2.90 U	2.90 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)	2.90 U	2.90 U	2.80 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U

KOMAN, PFAS RI, Vertical Profile Samples-Area2

AOC 43G, Army Air Force Exchange Service (AAFES) Gas Station and Historical Gas Station G

Locations:	43GVP-19-01	43GVP-19-02	43GVP-19-03	43GVP-19-03 (FD)	43GVP-19-04
Field Sample ID:	43GVP-19-01-16-20	43GVP-19-02-26-30	43GVP-19-03-22-26	A2-VP-DUP-R1-51419	43GVP-19-04-17-21
Sample Begin Depth:	16.00	26.00	22.00	22.00	17.00
Sample End Depth:	20.00	30.00	26.00	26.00	21.00
Sample Date:	05/14/2019	05/16/2019	05/14/2019	05/14/2019	05/08/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	19.0 U	18.0 U	18.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.30 U	9.20 U	9.10 U	9.10 U	9.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.30 U	9.20 U	9.10 U	9.10 U	9.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.30 U	9.20 U	9.10 U	9.10 U	9.10 U
Perfluorobutanesulfonic acid (PFBS)	**1.70 J**	**3.50**	**2.50**	**2.40**	**2.20**
Perfluorodecanoic acid (PFDA)	0.930 U	0.920 U	0.910 U	0.910 U	0.910 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**7.10**	**5.60**	**7.00**	**7.00**	**5.50**
Perfluorohexanesulfonic acid (PFHxS)	**11.0**	**32.0**	**15.0**	**15.0**	**43.0**
Perfluorohexanoic acid (PFHxA)	**12.0**	**13.0**	**11.0**	**11.0**	**14.0**
Perfluorononanoic acid (PFNA)	**1.10 J**	**0.950 J**	**0.880 J**	**0.940 J**	**0.580 J**
Perfluorooctanesulfonic acid (PFOS)	**12.0**	**29.0**	**23.0**	**24.0**	**29.0**
Perfluorooctanoic acid (PFOA)	**14.0**	**20.0**	**18.0**	**17.0**	**18.0**
Perfluorotetradecanoic acid (PFTA)	2.80 U	2.70 U	2.70 U	2.70 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.80 U	2.70 U	2.70 U	2.70 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

Locations:	43GVP-19-04	43GVP-19-04	43GVP-19-05	43GVP-19-05	43GVP-19-05
Field Sample ID:	43GVP-19-04-22-26	43GVP-19-04-7-11	43GVP-19-05-17-21	43GVP-19-05-27-31	43GVP-19-05-33-37
Sample Begin Depth:	22.00	7.00	17.00	27.00	33.00
Sample End Depth:	26.00	11.00	21.00	31.00	37.00
Sample Date:	05/09/2019	05/08/2019	05/08/2019	05/08/2019	05/08/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	19.0 U	18.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.20 U	9.40 U	9.20 U	9.30 U	9.20 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.20 U	9.40 U	9.20 U	9.30 U	9.20 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.20 U	9.40 U	9.20 U	9.30 U	9.20 U
Perfluorobutanesulfonic acid (PFBS)	**2.30**	**2.20**	**5.30**	**5.10**	**5.70**
Perfluorodecanoic acid (PFDA)	0.920 U	0.940 U	0.920 U	0.930 U	0.920 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**5.40**	**5.60**	**13.0**	**8.90**	**11.0**
Perfluorohexanesulfonic acid (PFHxS)	**18.0**	**55.0**	**170**	**160**	**190**
Perfluorohexanoic acid (PFHxA)	**10.0**	**16.0**	**53.0**	**33.0**	**43.0**
Perfluorononanoic acid (PFNA)	**0.660 J**	1.40 U	**0.780 J**	**0.930 J**	**1.20 J**
Perfluorooctanesulfonic acid (PFOS)	**10.0**	**33.0**	**55.0**	**57.0**	**64.0**
Perfluorooctanoic acid (PFOA)	**14.0**	**22.0**	**54.0**	**51.0**	**59.0**
Perfluorotetradecanoic acid (PFTA)	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)	2.80 U	2.80 U	2.80 U	2.80 U	2.80 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

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Locations:	43GVP-19-05	43GVP-19-06	43GVP-19-06	43GVP-19-06	43GVP-19-06
Field Sample ID:	43GVP-19-05-7-11	43GVP-19-06-12-16	43GVP-19-06-22-26	43GVP-19-06-32-36	43GVP-19-06-42-46
Sample Begin Depth:	7.00	12.00	22.00	32.00	42.00
Sample End Depth:	11.00	16.00	26.00	36.00	46.00
Sample Date:	05/07/2019	05/06/2019	05/06/2019	05/07/2019	05/07/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	18.0 U	19.0 U	19.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.10 U	9.20 U	9.40 U	9.40 U	9.30 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.10 U	9.20 U	9.40 U	9.40 U	9.30 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.10 U	9.20 U	9.40 U	9.40 U	9.30 U
Perfluorobutanesulfonic acid (PFBS)	**2.90**	**3.90**	**3.90**	**6.60**	**7.50**
Perfluorodecanoic acid (PFDA)	0.910 U	0.920 U	**0.550 J**	0.940 U	0.930 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**7.60**	**62.0**	**30.0**	**10.0**	**9.60**
Perfluorohexanesulfonic acid (PFHxS)	**81.0**	**84.0**	**66.0**	**200**	**180**
Perfluorohexanoic acid (PFHxA)	**28.0**	**39.0**	**24.0**	**42.0**	**36.0**
Perfluorononanoic acid (PFNA)	**0.540 J**	**1.50 J**	**1.60 J**	**1.00 J**	**0.690 J**
Perfluorooctanesulfonic acid (PFOS)	**220**	**87.0**	**74.0**	**58.0**	**15.0**
Perfluorooctanoic acid (PFOA)	**31.0**	**44.0**	**25.0**	**69.0**	**76.0**
Perfluorotetradecanoic acid (PFTA)	2.70 U	2.70 U	2.80 U	2.80 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)	2.70 U	2.70 U	2.80 U	2.80 U	2.80 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

Locations:	43GVP-19-06	43GVP-19-06 (FD)	43GVP-19-07	43GVP-19-07	43GVP-19-07
Field Sample ID:	43GVP-19-06-47-51	A2-VP-DUP-R2-050719	43GVP-19-07-12-16	43GVP-19-07-21-25	43GVP-19-07-2-6
Sample Begin Depth:	47.00	32.00	12.00	21.00	2.00
Sample End Depth:	51.00	36.00	16.00	25.00	6.00
Sample Date:	05/07/2019	05/07/2019	05/10/2019	05/10/2019	05/10/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	18.0 U	18.0 U	18.0 U	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.10 U	9.10 U	9.20 U	9.00 U	9.30 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.10 U	9.10 U	9.20 U	9.00 U	9.30 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.10 U	9.10 U	9.20 U	9.00 U	9.30 U
Perfluorobutanesulfonic acid (PFBS)	**9.10**	**6.40**	**2.10**	**2.10**	**2.30**
Perfluorodecanoic acid (PFDA)	0.910 U	**0.490 J**	0.920 U	0.900 U	0.930 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**11.0**	**11.0**	**5.20**	**5.50**	**6.30**
Perfluorohexanesulfonic acid (PFHxS)	**130**	**200**	**13.0**	**12.0**	**23.0**
Perfluorohexanoic acid (PFHxA)	**37.0**	**41.0**	**9.50**	**10.0**	**14.0**
Perfluorononanoic acid (PFNA)	**0.650 J**	**1.10 J**	**1.30 J**	**1.10 J**	**1.20 J**
Perfluorooctanesulfonic acid (PFOS)	**46.0**	**62.0**	**13.0**	**13.0**	**27.0**
Perfluorooctanoic acid (PFOA)	**67.0**	**67.0**	**13.0**	**13.0**	**27.0**
Perfluorotetradecanoic acid (PFTA)	2.70 U	2.70 U	2.80 U	2.70 U	2.80 U
Perfluorotridecanoic acid (PFTrDA)	2.70 U	2.70 U	2.80 U	2.70 U	2.80 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

Locations:	43GVP-19-07 (FD)	43GVP-19-08	43GVP-19-08	43GVP-19-08	43GVP-19-08
Field Sample ID:	A2-VP-DUP-R2-051019	43GVP-19-08-102-106	43GVP-19-08-13-17	43GVP-19-08-23-27	43GVP-19-08-33-37
Sample Begin Depth:	12.00	102.00	13.00	23.00	33.00
Sample End Depth:	16.00	106.00	17.00	27.00	37.00
Sample Date:	05/10/2019	09/13/2019	09/12/2019	09/12/2019	09/12/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	19.0 U	18.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.10 U	9.50 U	9.10 U	9.20 U	9.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.10 U	9.50 U	9.10 U	9.20 U	9.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.10 U	9.50 U	9.10 U	9.20 U	9.10 U
Perfluorobutanesulfonic acid (PFBS)	**2.20**	**7.10**	**18.0**	**1.20 J**	**0.600 J**
Perfluorodecanoic acid (PFDA)	0.910 U	0.950 U	0.910 U	0.920 U	0.910 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**5.40**	**4.70**	**12.0**	**2.20**	1.40 U
Perfluorohexanesulfonic acid (PFHxS)	**13.0**	**41.0**	**24.0**	**14.0**	**6.40**
Perfluorohexanoic acid (PFHxA)	**9.40**	**28.0**	**14.0**	**3.50**	**0.830 J**
Perfluorononanoic acid (PFNA)	**1.20 J**	1.40 U	**1.10 J**	1.40 U	1.40 U
Perfluorooctanesulfonic acid (PFOS)	**13.0**	**3.30 J**	**21.0**	**3.40 J**	**5.30**
Perfluorooctanoic acid (PFOA)	**13.0**	**19.0**	**49.0**	**5.50**	**1.30 J**
Perfluorotetradecanoic acid (PFTA)	2.70 U	2.80 U	2.70 U	2.70 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.70 U	2.80 U	2.70 U	2.70 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

Locations:	43GVP-19-08	43GVP-19-08	43GVP-19-08	43GVP-19-08	43GVP-19-08
Field Sample ID:	43GVP-19-08-3-7	43GVP-19-08-43-47	43GVP-19-08-53-57	43GVP-19-08-63-67	43GVP-19-08-73-77
Sample Begin Depth:	3.00	43.00	53.00	63.00	73.00
Sample End Depth:	7.00	47.00	57.00	67.00	77.00
Sample Date:	09/12/2019	09/12/2019	09/12/2019	09/13/2019	09/13/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	19.0 U	18.0 U	18.0 U	19.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.40 U	9.20 U	9.20 U	9.30 U	9.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.40 U	9.20 U	9.20 U	9.30 U	9.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.40 U	9.20 U	9.20 U	9.30 U	9.10 U
Perfluorobutanesulfonic acid (PFBS)	0.940 U	**15.0**	**13.0**	**18.0**	**31.0**
Perfluorodecanoic acid (PFDA)	0.940 U	0.920 U	0.920 U	0.930 U	0.910 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	1.40 U	**15.0**	**15.0**	**11.0**	**9.90**
Perfluorohexanesulfonic acid (PFHxS)	**1.20 J**	**340**	**290**	**230**	**210**
Perfluorohexanoic acid (PFHxA)	0.940 U	**41.0**	**43.0**	**38.0**	**42.0**
Perfluorononanoic acid (PFNA)	1.40 U	**0.870 J**	**0.510 J**	**0.570 J**	1.40 U
Perfluorooctanesulfonic acid (PFOS)	2.80 U	**580**	**470**	**260**	**170**
Perfluorooctanoic acid (PFOA)	**0.510 J**	**64.0**	**70.0**	**48.0**	**51.0**
Perfluorotetradecanoic acid (PFTA)	2.80 U	2.80 U	2.80 U	2.80 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.80 U	2.80 U	2.80 U	2.80 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

Locations:	43GVP-19-08	43GVP-19-08	43GVP-19-08 (FD)	43GVP-19-09	43GVP-19-09
Field Sample ID:	43GVP-19-08-83-87	43GVP-19-08-93-97	A2-VP-DUP-R2-91319	43GVP-19-09-13-17	43GVP-19-09-23-27
Sample Begin Depth:	83.00	93.00	93.00	13.00	23.00
Sample End Depth:	87.00	97.00	97.00	17.00	27.00
Sample Date:	09/13/2019	09/13/2019	09/13/2019	09/11/2019	09/11/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	18.0 U	18.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.10 U	9.20 U	9.20 U	9.10 U	9.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.10 U	9.20 U	9.20 U	9.10 U	9.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.10 U	9.20 U	9.20 U	9.10 U	9.10 U
Perfluorobutanesulfonic acid (PFBS)	**10.0**	**12.0**	**12.0**	0.910 U	**1.00 J**
Perfluorodecanoic acid (PFDA)	0.910 U	0.920 U	0.920 U	0.910 U	**2.70**
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**6.50**	**3.10**	**3.00**	1.40 U	**2.20**
Perfluorohexanesulfonic acid (PFHxS)	**89.0**	**55.0**	**52.0**	**3.90**	**8.50**
Perfluorohexanoic acid (PFHxA)	**20.0**	**14.0**	**14.0**	0.910 U	**3.30**
Perfluorononanoic acid (PFNA)	1.40 U	1.40 U	1.40 U	1.40 U	**2.70**
Perfluorooctanesulfonic acid (PFOS)	**44.0**	**35.0**	**36.0**	2.70 U	**6.80**
Perfluorooctanoic acid (PFOA)	**27.0**	**14.0**	**14.0**	**0.490 J**	**4.60**
Perfluorotetradecanoic acid (PFTA)	2.70 U	2.80 U	2.80 U	2.70 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.70 U	2.80 U	2.80 U	2.70 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

Locations:	43GVP-19-09	43GVP-19-09	43GVP-19-09	43GVP-19-09 (FD)	43GVP-19-10
Field Sample ID:	43GVP-19-09-33-37	43GVP-19-09-43-47	43GVP-19-09-52-56	A2-VP-DUP-R2-91119	43GVP-19-10-13-17
Sample Begin Depth:	33.00	43.00	52.00	13.00	13.00
Sample End Depth:	37.00	47.00	56.00	17.00	17.00
Sample Date:	09/11/2019	09/11/2019	09/11/2019	09/11/2019	09/11/2019
PFAS (ng/L)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	18.0 U	19.0 U	18.0 U	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.10 U	9.10 U	9.30 U	9.10 U	9.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.10 U	9.10 U	9.30 U	9.10 U	9.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.10 U	9.10 U	9.30 U	9.10 U	9.10 U
Perfluorobutanesulfonic acid (PFBS)	**4.60**	**4.50**	**8.00**	0.910 U	**5.50**
Perfluorodecanoic acid (PFDA)	0.910 U	**0.500 J**	0.930 U	0.910 U	**0.690 J**
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U
Perfluoroheptanoic acid (PFHpA)	**12.0**	**9.40**	**11.0**	1.40 U	**5.90**
Perfluorohexanesulfonic acid (PFHxS)	**74.0**	**60.0**	**98.0**	**4.00**	**19.0**
Perfluorohexanoic acid (PFHxA)	**17.0**	**18.0**	**27.0**	0.910 U	**11.0**
Perfluorononanoic acid (PFNA)	**2.30**	**2.20**	**1.70 J**	1.40 U	**1.30 J**
Perfluorooctanesulfonic acid (PFOS)	**92.0**	**86.0**	**40.0**	2.70 U	**42.0**
Perfluorooctanoic acid (PFOA)	**45.0**	**40.0**	**55.0**	1.40 U	**15.0**
Perfluorotetradecanoic acid (PFTA)	2.70 U	2.70 U	2.80 U	2.70 U	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.70 U	2.70 U	2.80 U	2.70 U	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.40 U	1.40 U	1.40 U

Locations:	43GVP-19-10	43GVP-19-11	43GVP-19-11
Field Sample ID:	43GVP-19-10-21-25	43GVP-19-11-19-23	43GVP-19-11-9-13
Sample Begin Depth:	21.00	19.00	9.00
Sample End Depth:	25.00	23.00	13.00
Sample Date:	09/11/2019	09/12/2019	09/12/2019
PFAS (ng/L)			
6:2 Fluorotelomer sulfonate (6:2 FTS)	19.0 U	18.0 U	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.30 U	9.20 U	10.0 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.30 U	9.20 U	10.0 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.30 U	9.20 U	10.0 U
Perfluorobutanesulfonic acid (PFBS)	**4.60**	**14.0**	**12.0**
Perfluorodecanoic acid (PFDA)	0.930 U	0.920 U	1.00 U
Perfluorododecanoic acid (PFDoA)	1.40 U	1.40 U	1.50 U
Perfluoroheptanoic acid (PFHpA)	**4.80**	**13.0**	**7.80**
Perfluorohexanesulfonic acid (PFHxS)	**27.0**	**200**	**360**
Perfluorohexanoic acid (PFHxA)	**8.90**	**53.0**	**47.0**
Perfluorononanoic acid (PFNA)	**1.10 J**	**1.00 J**	**1.30 J**
Perfluorooctanesulfonic acid (PFOS)	**27.0**	**79.0**	**390**
Perfluorooctanoic acid (PFOA)	**15.0**	**76.0**	**52.0**
Perfluorotetradecanoic acid (PFTA)	2.80 U	2.80 U	3.00 U
Perfluorotridecanoic acid (PFTrDA)	2.80 U	2.80 U	3.00 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	1.40 U	1.50 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