

Castle AFB Results reported in parts per trillion (ppt)							
Laboratory Sample ID	22111211603	22111211602	22111211604	22111211605	22111211607	22111211606	22111211610
Sample Date (YYYYMMDD)	20211117	20211117	20211117	20211117	20211117	20211117	20211117
Analysis Method	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15
Units	ppt	ppt	ppt	ppt	ppt	ppt	ppt
10:2FTS	≤ 0.8 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.8 U	≤ 0.8 U	≤ 1.1 U
11CI-PF3OUdS	≤ 0.4 U	≤ 0.5 U	≤ 0.5 U	≤ 0.5 U	≤ 0.4 U	≤ 0.4 U	≤ 0.6 U
ADONA	≤ 0.4 U	≤ 0.5 U	≤ 0.4 U	≤ 0.5 U	≤ 0.4 U	≤ 0.4 U	≤ 0.5 U
4:2FTS	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.6 U	≤ 1.8 U
6:2FTS	≤ 0.7 U	≤ 0.8 U	41.1	45.6	≤ 0.8 U	≤ 0.7 U	118
8:2FTS	≤ 0.5 U	≤ 0.6 U	4.8	5.8	≤ 0.5 U	≤ 0.5 U	33.9
9CI-PF3ONS	≤ 0.4 U	≤ 0.5 U	≤ 0.5 U	≤ 0.5 U	≤ 0.4 U	≤ 0.4 U	≤ 0.6 U
HFPO-DA	≤ 3.3 U	≤ 3.6 U	≤ 3.5 U	≤ 3.6 U	≤ 3.3 U	≤ 3.3 U	≤ 4.2 U
NEtFOSA	≤ 0.7 U	≤ 0.8 U	≤ 0.7 U	≤ 0.8 U	≤ 0.7 U	≤ 0.7 U	≤ 0.9 U
NEtFOSE	≤ 0.5 U	≤ 0.6 U	≤ 0.5 U	≤ 0.5 U	≤ 0.7 U	≤ 0.5 U	≤ 0.6 U
NEtFOSAA	≤ 0.8 U	≤ 0.9 U	≤ 0.8 U	≤ 0.9 U	≤ 0.8 U	≤ 0.4 U	≤ 1 U
NMeFOSA	≤ 0.8 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.8 U	≤ 0.8 U	≤ 1 U
NMeFOSE	≤ 0.6 U	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 0.6 U	≤ 0.8 U
NMeFOSAA	≤ 0.4 U	≤ 0.5 U	≤ 0.5 U	≤ 0.5 U	≤ 0.4 U	≤ 0.4 U	≤ 0.6 U
NFDHA	≤ 0.7 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.7 U	≤ 0.9 U
PFEESA	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 1 U
PFMPA	≤ 0.7 U	≤ 0.8 U	≤ 0.7 U	≤ 0.8 U	≤ 0.7 U	≤ 0.7 U	≤ 0.9 U
PFMBA	≤ 0.7 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.7 U	≤ 0.9 U
PFBS	1 J	≤ 0.3 U	9.1	9.9	≤ 0.3 U	≤ 0.3 U	29.1
PFBA	6.8	33.2	8.6	9.7	1.9 J	≤ 0.8 U	23.2
PFDS	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.6 U	≤ 0.8 U
PFDA	≤ 0.7 U	≤ 0.8 U	≤ 0.7 U	≤ 0.8 U	≤ 0.7 U	≤ 0.7 U	≤ 0.9 U
PFDoS	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 1.5 U	≤ 0.7 U	≤ 0.7 UJ
PFDoA	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.7 U	≤ 0.7 U	≤ 0.6 U	≤ 0.8 U
PFHpS	≤ 0.6 U	≤ 0.7 U	3.2	3.7	≤ 0.6 U	≤ 0.6 U	10.1
PFHpA	≤ 0.6 U	≤ 0.6 U	12.7	14.6	≤ 0.6 U	≤ 0.6 U	41.3
PFHxDA	≤ 0.7 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.7 U	≤ 0.9 U
PFHxS	1.1 J	≤ 0.7 U	97.6	112	≤ 0.6 U	≤ 0.6 U	297
PFHxA	5	≤ 0.5 U	30.5	35	≤ 0.5 U	≤ 0.5 U	91.6
PFNS	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 1.1 U
PFNA	≤ 0.5 U	≤ 0.5 U	0.8 J	0.9 J	≤ 0.5 U	≤ 0.5 U	4
PFODA	≤ 0.5 U	≤ 0.6 U	≤ 0.5 U	≤ 0.6 U	≤ 0.5 UJ	≤ 0.5 UJ	≤ 0.6 U
PFOSA	≤ 0.4 U	≤ 0.4 U	20.6	24.9	≤ 0.4 U	≤ 0.4 U	176
PFOS	0.4 J	≤ 0.4 U	125	143	≤ 0.4 U	≤ 0.4 U	535
PFOA	≤ 0.4 U	≤ 0.5 U	17.9	20.9	≤ 0.4 U	≤ 0.4 U	68.2
PFPeS	≤ 0.5 U	≤ 0.6 U	9.2	10	≤ 0.5 U	≤ 0.5 U	28.6
PFPeA	12.1	≤ 0.5 U	27.5	31.5	≤ 0.4 U	≤ 0.4 U	69.4
PFTeDA	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 0.7 U
PFTTrDA	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.6 U	≤ 0.8 U
PFUnA	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.7 U	≤ 0.6 U	≤ 0.6 U	≤ 0.8 U

Notes

Where there was individual or combined levels of PFOS and/or PFOA in drinking water above the 2016 U.S. Environmental Protection Agency's (EPA's) lifetime drinking water health advisories (HAs) resulting from DoD activities, the Department immediately took actions to address the drinking water exposure of 70 ppt.

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Castle AFB Results reported in parts per trillion (ppt)							
Laboratory Sample ID	22111211612	22111211611	22111211613	22201134302	22201134303	22201134304	22201134308
Sample Date (YYYYMMDD)	20211117	20211117	20211117	20220111	20220111	20220111	20220111
Analysis Method	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15
Units	ppt	ppt	ppt	ppt	ppt	ppt	ppt
10:2FTS	≤ 0.8 U	≤ 0.9 U	≤ 0.9 U	≤ 1.7 U	≤ 1.7 U	≤ 1.7 U	≤ 1.7 U
11CI-PF3OUdS	≤ 0.4 U	≤ 0.5 U	≤ 0.5 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U
ADONA	≤ 0.4 U	≤ 0.4 U	≤ 0.4 U	≤ 0.8 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U
4:2FTS	≤ 0.6 U	≤ 0.6 U	1.3 J	≤ 1.2 U	≤ 1.2 U	≤ 1.3 U	≤ 1.2 U
6:2FTS	≤ 0.7 U	≤ 0.8 U	68.1	≤ 1.5 U	≤ 1.5 U	4.5	4.3
8:2FTS	≤ 0.5 U	≤ 0.5 U	4.1	≤ 1 U	≤ 1.1 U	≤ 1.1 U	≤ 1.1 U
9CI-PF3ONS	≤ 0.4 U	≤ 0.5 U	≤ 0.5 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U
HFPO-DA	≤ 3.3 U	≤ 3.4 U	≤ 3.4 U	≤ 6.6 U	≤ 6.7 U	≤ 6.8 U	≤ 6.7 U
NEtFOSA	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U
NEtFOSE	≤ 0.5 U	≤ 0.5 U	≤ 0.5 U	≤ 1 U	≤ 1 U	≤ 1 U	≤ 1 U
NEtFOSAA	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 1.6 U	≤ 1.6 U	≤ 1.6 U	≤ 1.6 U
NMeFOSA	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 1.6 U	≤ 1.7 U	≤ 1.7 U	≤ 1.7 U
NMeFOSE	≤ 0.6 U	≤ 0.7 U	≤ 0.7 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U
NMeFOSAA	≤ 0.8 U	≤ 0.5 U	≤ 0.5 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U
NFDHA	≤ 0.7 U	≤ 0.8 U	≤ 0.8 U	≤ 1.5 U	≤ 1.5 U	≤ 1.5 U	≤ 1.5 U
PFEESA	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 1.5 U	≤ 1.6 U	≤ 1.6 U	≤ 1.6 U
PFMPA	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U
PFMBA	≤ 0.7 U	≤ 0.8 U	≤ 0.8 U	≤ 1.5 U	≤ 1.5 U	≤ 1.5 U	≤ 1.5 U
PFBS	≤ 0.3 U	≤ 0.3 U	29.5	≤ 0.6 U	1.6 J	1.7 J	1.8 J
PFBA	1.5 J	≤ 0.8 U	20.5	17.1	9	≤ 1.6 U	≤ 1.5 U
PFDS	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U
PFDA	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 1.4 U	≤ 1.4 U	≤ 1.5 U	≤ 1.4 U
PFDoS	≤ 0.7 U	≤ 0.7 U	≤ 0.7 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U
PFDoA	≤ 0.6 U	≤ 0.7 U	≤ 0.7 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U
PFHpS	≤ 0.6 U	≤ 0.6 U	9.2	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U
PFHpA	≤ 0.6 U	≤ 0.6 U	39.1	≤ 1.1 U	≤ 1.2 U	2.1 J	2.1 J
PFHxDA	≤ 0.7 U	≤ 0.8 U	≤ 0.8 U	≤ 1.5 U	≤ 1.5 U	≤ 1.5 U	≤ 1.5 U
PFHxS	≤ 0.6 U	≤ 0.6 U	242	≤ 1.2 U	1.9 J	18.3	18.1
PFHxA	≤ 0.5 U	≤ 0.5 U	76.6	≤ 0.9 U	7	5	5.1
PFNS	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 1.7 U	≤ 1.8 U	≤ 1.8 U	≤ 1.7 U
PFNA	≤ 0.5 U	≤ 0.5 U	7.8	≤ 1 U	≤ 1 U	≤ 1 U	≤ 1 U
PFODA	≤ 0.5 UJ	≤ 0.5 UJ	≤ 0.5 UJ	≤ 1 U	≤ 1 U	3.7 J	3.7 J
PFOSA	≤ 0.4 U	≤ 0.4 U	≤ 0.4 U	≤ 0.7 U	≤ 0.7 U	5.3	5.2
PFOS	≤ 0.4 U	≤ 0.4 U	180	≤ 0.7 U	≤ 0.8 U	20.9	21.7
PFOA	≤ 0.4 U	≤ 0.4 U	65.6	≤ 0.8 U	≤ 0.8 U	3.7 J	3.7 J
PFPeS	≤ 0.5 U	≤ 0.5 U	32.2	≤ 1 U	≤ 1 U	≤ 1.8 U	1.7 J
PFPeA	≤ 0.4 U	≤ 0.4 U	71.6	≤ 0.9 U	17.4	4.6	4.4
PFTeDA	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 1.1 U	≤ 1.1 U	≤ 1.2 U	≤ 1.1 U
PFTTrDA	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 1.2 U	≤ 1.2 U	≤ 1.3 U	≤ 1.2 U
PFUnA	≤ 0.6 U	≤ 0.6 U	≤ 0.6 U	≤ 1.2 U	≤ 1.2 U	≤ 1.3 U	≤ 1.2 U

Notes

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Castle AFB Results reported in parts per trillion (ppt)						
Laboratory Sample ID	22201134305	22201134306	22201134307	22201134309	22201134310	22201134313
Sample Date (YYYYMMDD)	20220111	20220111	20220111	20220111	20220111	20220111
Analysis Method	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15	QSM B-15
Units	ppt	ppt	ppt	ppt	ppt	ppt
10:2FTS	≤ 1.7 U	≤ 1.6 U	≤ 1.7 U	≤ 1.7 U	≤ 0.8 U	≤ 0.8 U
11CI-PF3OUdS	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.4 U	≤ 0.4 U
ADONA	≤ 0.8 U	≤ 0.8 U	≤ 0.8 U	≤ 0.9 U	≤ 0.4 U	≤ 0.4 U
4:2FTS	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 1.3 U	≤ 0.6 U	1.7 J
6:2FTS	≤ 1.5 U	≤ 1.4 U	29.9	≤ 1.5 U	≤ 0.8 U	96.1
8:2FTS	≤ 1 U	≤ 1 U	8.1	≤ 1.1 U	≤ 0.5 U	5.6
9CI-PF3ONS	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.4 U	≤ 0.4 U
HFPO-DA	≤ 6.6 U	≤ 6.5 U	≤ 6.5 U	≤ 6.8 U	≤ 3.3 U	≤ 3.3 U
NEtFOSA	≤ 1.4 UJ	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U	≤ 0.7 U	≤ 0.7 U
NEtFOSE	≤ 1 U	≤ 1 U	≤ 1 U	≤ 1 U	≤ 0.5 U	≤ 0.5 U
NEtFOSAA	≤ 1.6 U	≤ 1.5 U	≤ 1.5 U	≤ 1.6 U	≤ 0.8 U	≤ 0.8 U
NMeFOSA	≤ 1.6 UJ	≤ 1.6 U	≤ 1.6 U	≤ 1.7 U	≤ 0.8 U	≤ 0.8 U
NMeFOSE	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 0.7 U	≤ 0.7 U
NMeFOSAA	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.9 U	≤ 0.4 U	≤ 0.4 U
NFDHA	≤ 1.5 U	≤ 1.4 U	≤ 1.5 U	≤ 1.5 U	≤ 0.8 U	≤ 0.8 U
PFEESA	≤ 1.5 U	≤ 1.5 U	≤ 1.5 U	≤ 1.6 U	≤ 0.8 U	≤ 0.8 U
PFMPA	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U	≤ 0.7 U	≤ 0.7 U
PFMBA	≤ 1.5 U	≤ 1.4 U	≤ 1.5 U	≤ 1.5 U	≤ 0.8 U	≤ 0.8 U
PFBS	≤ 1.5 U	≤ 1.5 U	8.2	≤ 0.6 U	≤ 0.3 U	41.2
PFBA	≤ 1.5 U	≤ 1.5 U	6.3	≤ 1.5 U	2.5	28.8
PFDS	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 0.6 U	≤ 0.6 U
PFDA	≤ 1.4 U	≤ 1.4 U	≤ 1.4 U	≤ 1.5 U	≤ 0.7 U	≤ 0.7 U
PFDoS	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 0.7 U	≤ 0.7 U
PFDoA	≤ 1 U	≤ 1.3 U	≤ 1.3 U	≤ 1.3 U	≤ 0.7 U	≤ 0.7 U
PFHpS	≤ 1.2 U	≤ 1.2 U	2.7 J	≤ 1.2 U	≤ 0.6 U	13.1
PFHpA	≤ 1.1 U	≤ 1.1 U	10.4	≤ 1.2 U	≤ 0.6 U	53.7
PFHxDA	≤ 1.5 U	≤ 1.4 U	≤ 1.5 U	≤ 1.5 U	≤ 0.8 U	≤ 0.8 U
PFHxS	≤ 1.2 U	≤ 1.2 U	82.7	≤ 1.3 U	≤ 0.6 U	333
PFHxA	≤ 1.2 U	≤ 0.9 U	25.2	≤ 1 U	≤ 0.5 U	105
PFNS	≤ 1.7 U	≤ 1.7 U	≤ 1.7 U	≤ 1.8 U	≤ 0.9 U	≤ 0.9 U
PFNA	≤ 1 U	≤ 0.9 U	1 J	≤ 1 U	≤ 0.5 U	10.6
PFODA	≤ 1 U	≤ 1 U	≤ 1 U	≤ 1 U	≤ 0.5 U	≤ 0.5 U
PFOSA	≤ 0.7 U	≤ 0.7 U	64.5	≤ 0.8 U	≤ 0.4 U	≤ 0.4 U
PFOS	≤ 0.7 U	0.9 J	139	≤ 0.8 U	≤ 0.4 U	251
PFOA	≤ 0.8 U	≤ 0.8 U	20.3	≤ 0.9 U	≤ 0.4 U	88.7
PFPeS	≤ 1 U	≤ 1 U	8.2	≤ 1 U	≤ 0.5 U	45.9
PFPeA	≤ 0.9 U	≤ 0.9 U	18.1	≤ 0.9 U	≤ 0.4 U	102
PFTeDA	≤ 1.1 U	≤ 1.1 U	≤ 1.1 U	≤ 1.2 U	≤ 0.6 U	≤ 0.6 U
PFTTrDA	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 0.6 U	≤ 0.6 U
PFUnA	≤ 1.2 U	≤ 1.2 U	≤ 1.2 U	≤ 1.3 U	≤ 0.6 U	≤ 0.6 U

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