



October 14, 2020

**Target Reporting Limits<sup>1</sup>**  
**for LC/MS/MS analysis of Per- and Polyfluorinated Alkyl Acids by**  
**Department of Defense Quality Systems Manual (Version 5.1 or later)**

<b>Chemical Name/ Abbreviation(s)</b>	<b>Geotracker PARLABEL</b>	<b>Chemical Abstracts Service (CAS) No.</b>	<b>Aqueous: Landfill Leachate, Landfill Gas Condensate, Wastewater (ng/L)</b>	<b>Aqueous: Groundwater (ng/L)</b>	<b>Solid: Soil (ng/g)</b>	<b>Solid: Biosolids (ng/g)</b>
Perfluorobutanoic acid (PFBA)	PFBTA	375-22-4	80.0	8.0	1.0	10.0
Perfluoropentanoic acid (PFPeA)	PFPA	2706-90-3	50.0	5.0	1.0	10.0
Perfluorohexanoic acid (PFHxA)	PFHA	307-24-4	50.0	5.0	1.0	10.0
Perfluoroheptanoic acid (PFHpA)	PFHPA	375-85-9	50.0	5.0	1.0	10.0
Perfluorooctanoic acid (PFOA)	PFOA	335-67-1	50.0	5.0	1.0	10.0
Perfluorononanoic acid (PFNA)	PFNA	375-95-1	50.0	5.0	1.0	10.0
Perfluorodecanoic acid (PFDA)	PFNDCA	335-76-2	50.0	5.0	1.0	10.0
Perfluoroundecanoic acid (PFUnDA, PFUda, PFUnA)	PFUNDCA	2058-94-8	50.0	5.0	1.0	10.0
Perfluorododecanoic acid (PFDoDA, PFDoA)	PFDOA	307-55-1	50.0	5.0	1.0	10.0
Perfluorotridecanoic acid (PFTrDA)	PFTRIDA	72629-94-8	50.0	5.0	1.0	10.0
Perfluorotetradecanoic acid (PFTeDA, PFTA)	PFTEDA	376-06-7	80.0	8.0	2.0	20.0
Perfluorohexadecanoic acid (PFHxDA)	PFHXDA	67905-19-5	80.0	8.0	2.0	20.0
Perfluorooctadecanoic acid (PFODA)	PFODA	16517-11-6	80.0	8.0	2.0	20.0
Perfluorobutane sulfonic acid (PFBS)	PFBSA	375-73-5	50.0	5.0	1.0	10.0
Perfluoropentane sulfonic acid (PFPeS)	PFPEs	2706-91-4	50.0	5.0	1.0	20.0
Perfluorohexane sulfonic acid (PFHxS)	PFHXSA	355-46-4	50.0	5.0	1.0	20.0
Perfluoroheptane sulfonic acid (PFHpS)	PFHPSA	375-92-8	50.0	5.0	1.0	20.0
Perfluorooctane sulfonic acid (PFOS)	PFOS	1763-23-1	50.0	5.0	1.0	20.0

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Perfluorononane sulfonic acid (PFNS)	PFNS	474511-07-4	80.0	8.0	5.0	50.0
Perfluorodecane sulfonic acid (PFDS)	PFDSA	335-77-3	50.0	5.0	1.0	20.0
Perfluorooctanesulfonamide (PFOSA, PFOSAm, FOSA)	PFOSA	754-91-6	80.0	8.0	1.0	10.0
N-Ethyl perfluorooctane sulfonamide ethanol (EtFOSE)	ETFOSE	1691-99-2	80.0	8.0	2.0	20.0
N-Methyl perfluorooctane sulfonamide ethanol <sup>2</sup> (MeFOSE)	MEFOSE	24448-09-7	80.0	8.0	2.0	20.0
N-Ethyl perfluorooctane sulfonamide <sup>2</sup> (EtFOSA, EtFOSAm)	ETFOSA	4151-50-2	80.0	8.0	2.0	20.0
N-Methyl perfluorooctane sulfonamide (MeFOSA, MeFOSAm)	MEFOSA	31506-32-8	80.0	8.0	2.0	20.0
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	NMEFOSAA	2355-31-9	80.0	8.0	2.0	20.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEFOSAA)	NETFOSAA	2991-50-6	80.0	8.0	2.0	20.0
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4:2FTS	757124-72-4	80.0	8.0	2.0	20.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	6:2FTS	27619-97-2	80.0	8.0	2.0	20.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	8:2FTS	39108-34-4	80.0	8.0	2.0	20.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	10:2FTS	120226-60-0	80.0	8.0	2.0	20.0
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	3:3FTCA	356-02-5	80.0	8.0	5.0	50.0

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2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	5:3FTCA	914637-49-3	80.0	8.0	5.0	50.0
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	7:3FTCA	812-70-4	80.0	8.0	5.0	50.0
Hexafluoropropylene Oxide Dimer Acid <sup>2</sup> (HFPO-DA)	HFPA-DA	13252-13-6	80.0	8.0	5.0	50.0
4,8-Dioxa-3H-perfluorononanoic acid <sup>2</sup> (ADONA)	ADONA	919005-14-4	80.0	8.0	5.0	50.0
9-Chlorohexadecafluoro-3-oxanonane-1- sulfonic acid <sup>2</sup> (9-Cl-PF3ONS)	9CIPF3ONS	756426-58-1	80.0	8.0	5.0	50.0
11-Chloroeicosafluoro-3-oxaundecane-1- sulfonic acid <sup>2</sup> (11-Cl-PF3OUdS)	11CIPF3OUdS	763051-92-9	80.0	8.0	5.0	50.0
Nonafluoro-3,6-dioxaheptanoic acid <sup>2</sup> (NFDHA)	NFDHA	151772-58-6	80.0	8.0	5.0	50.0
Perfluoro(2-ethoxyethane) sulfonic acid <sup>2</sup> (PFEESA)	PFEESA	113507-82-7	80.0	8.0	5.0	50.0
Perfluoro-3-methoxypropanoic acid <sup>2</sup> (PFMPA)	PFMPA	377-73-1	80.0	8.0	5.0	50.0
Perfluoro-4-methoxybutanoic acid <sup>2</sup> (PFMBA)	PFMBA	863090-89-5	80.0	8.0	5.0	50.0

**Abbreviations:**

ng/L = nanogram per liter

µg/kg = microgram per kilogram

**Notes:**

- The laboratory must use the minimum standard data qualifiers provided in the DoD QSM. These data qualifiers must be included in the analytical electronic data format (EDF) submittal into GeoTracker. Refer to GeoTracker's [data dictionary](#) for the valid values for data qualifiers. A quick search option for data qualifiers (EDF/LNOTE), and other fields within the EDF submittal is available [here](#).
- 1. These are the target reporting limits for the California Water Board Investigatory Orders and represent the highest reporting limits acceptable for reporting purposes. If a laboratory's reporting limit is lower than the target reporting limits listed, then the laboratory should report data using the laboratory's reporting limit.
- 2. The acceptable quality control limits for these analytes are not listed in Table C-44 Method PFAS by LCMSMS Compliant with QSM Table B-15 Aqueous Matrix or Table C-45 Method PFAS by LCMSMS Compliant with QSM Table B-15 Solid Matrix of the [DoD Quality Systems Manual \(QSM\), Version 5.3](#). If a Water Board regulatory directive requires the analysis of these analytes, the laboratory must use in-house acceptance criteria for control samples for these analytes per the DoD QSM.

**The list of PFAS analytes on this table is a compilation of all compounds that could be included in a California Water Board Investigatory Order or another Water Board regulatory directive. Please refer to the specific order or directive for the required list of PFAS analytes.**