| Target Reporting Limits1for LC/MS/MS analysis of Per- and Polyfluorinated Alkyl Acids byDepartment of Defense Quality Systems Manual (Version 5.3 or later) | | | | |
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| **Chemical Name/  Abbreviation(s)** | **GeoTracker PARLABEL** | **Chemical Abstracts Service (CAS) No.** | **Aqueous:  Non-Drinking Water (ng/L)** | **Solid**  **(ng/g)** |
| **Perfluoroalkyl carboxylic acids (13)** | | | | |
| Perfluorobutanoic acid (PFBA) | PFBTA | 375-22-4 | 4.0 | 1.0 |
| Perfluoropentanoiic acid (PFPeA) | PFPA | 2706-90-3 | 4.0 | 1.0 |
| Perfluorohexanoic acid (PFHxA) | PFHA | 307-24-4 | 4.0 | 1.0 |
| Perfluoroheptanoic acid (PFHpA) | PFHPA | 375-85-9 | 4.0 | 1.0 |
| Perfluorooctanoic acid (PFOA) | PFOA | 335-67-1 | 4.0 | 1.0 |
| Perfluorononanoic acid (PFNA) | PFNA | 375-95-1 | 4.0 | 1.0 |
| Perfluorodecanoic acid (PFDA) | PFNDCA | 335-76-2 | 4.0 | 1.0 |
| Perfluoroundecanoic acid (PFUnDA, PFUda, PFUnA) | PFUNDCA | 2058-94-8 | 4.0 | 1.0 |
| Perfluorododecanoic acid (PFDoDA, PFDoA) | PFDOA | 307-55-1 | 4.0 | 1.0 |
| Perfluorotridecanoic acid (PFTrDA) | PFTRIDA | 72629-94-8 | 4.0 | 1.0 |
| Perfluorotetradecanoic acid (PFTeDA, PFTA) | PFTEDA | 376-06-7 | 4.0 | 1.0 |
| Perfluorohexadecanoic acid (PFHxDA) | PFHXDA | 67905-19-5 | 4.0 | 1.0 |
| Perfluorooctadecanoic acid (PFODA) | PFODA | 16517-11-6 | 4.0 | 1.0 |
| **Perfluoroalkyl sulfonic acids (8)** | | | | |
| Perfluorobutane sulfonic acid (PFBS) | PFBSA | 375-73-5 | 4.0 | 1.0 |
| Perfluoropentane sulfonoic acid (PFPeS) | PFPES | 2706-91-4 | 4.0 | 1.0 |
| Perfluorohexane sulfonic acid (PFHxS) | PFHXSA | 355-46-4 | 4.0 | 1.0 |
| Perfluoroheptane sulfonic acid (PFHpS) | PFHPSA | 375-92-8 | 4.0 | 1.0 |
| Perfluorooctane sulfonic acid (PFOS) | PFOS | 1763-23-1 | 4.0 | 1.0 |
| Perfluorononane sulfonic acid (PFNS) | PFNS | 68259-12-1 | 4.0 | 1.0 |
| Perfluorodecane sulfonic acid (PFDS) | PFDSA | 335-77-3 | 4.0 | 1.0 |
| Perfluorododecanesulfonic acid (PFDoS) | PFDOS | 79780-39-5 | 4.0 | 1.0 |
| **Fluorotelomer sulfonic acids (4)** | | | | |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTS) | 4:2FTS | 757124-72-4 | 4.0 | 1.0 |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | 6:2FTS | 27619-97-2 | 4.0 | 1.0 |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | 8:2FTS | 39108-34-4 | 4.0 | 1.0 |
| 10:2 Fluorotelomer sulfonic acid (10:2 FTS) | 10:2FTS | 120226-60-0 | 7.0 | 1.0 |
| **Perfluorooctane sulfonamides (3)** | | | | |
| Perfluorooctanesulfonamide (PFOSA, PFOSAm, FOSA) | PFOSA | 754-91-6 | 7.0 | 1.0 |
| N-Methyl perfluorooctane sulfonamide (MeFOSA, MeFOSAm) | MEFOSA | 31506-32-8 | 7.0 | 1.0 |
| N-Ethyl perfluorooctane sulfonamide2 (EtFOSA, EtFOSAm) | ETFOSA | 4151-50-2 | 7.0 | 1.0 |
| **Perfluorooctane sulfonamidoacetic acids (2)** | | | | |
| N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA) | NMEFOSAA | 2355-31-9 | 7.0 | 1.0 |
| N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA) | NETFOSAA | 2991-50-6 | 7.0 | 1.0 |
| **Perfluorooctane sulfonamide ethanols (2)** | | | | |
| N-Methyl perfluorooctane sulfonamide ethanol2 (MeFOSE) | MEFOSE | 24448-09-7 | 7.0 | 1.0 |
| N-Ethyl perfluorooctane sulfonamide ethanol (EtFOSE) | ETFOSE | 1691-99-2 | 7.0 | 1.0 |
| **Per- and Polyfluoroether carboxylic acids (5)** | | | | |
| Hexafluoropropylene Oxide Dimer Acid2 (HFPO-DA) | HFPA-DA | 13252-13-6 | 4.0 | 1.0 |
| 4,8-Dioxa-3H-perfluorononanoic acid2 (ADONA) | ADONA | 919005-14-4 | 4.0 | 1.0 |
| **Per- and Polyfluoroether carboxylic acids (3)** | | | | |
| Perfluoro-3-methoxypropanoic acid2 (PFMPA) | PFMPA | 377-73-1 | 7.0 | 1.0 |
| Perfluoro-4-methoxybutanoic acid2 (PFMBA) | PFMBA | 863090-89-5 | 7.0 | 1.0 |
| Nonafluoro-3,6-dioxaheptanoic acid2 (NFDHA) | NFDHA | 151772-58-6 | 7.0 | 1.0 |
| **Ether sulfonic acids (3)** | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid2 (9-Cl-PF3ONS) | 9ClPF3ONS | 756426-58-1 | 4.0 | 1.0 |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid2 (11-Cl-PF3OUdS) | 11ClPF3OUdS | 763051-92-9 | 4.0 | 1.0 |
| Perfluoro(2-ethoxyethane) sulfonic acid2 (PFEESA) | PFEESA | 113507-82-7 | 7.0 | 1.0 |
| **Fluorotelomer carboxylic acids (3)** | | | | |
| 2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA) | 3:3FTCA | 356-02-5 | 7.0 | 1.0 |
| 2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA) | 5:3FTCA | 914637-49-3 | 7.0 | 1.0 |
| 2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA) | 7:3FTCA | 812-70-4 | 7.0 | 1.0 |

**Abbreviations**:

ng/L = nanogram per liter ng/g = nanogram per gram

**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](https://www.waterboards.ca.gov/ust/electronic_submittal/docs/edf_data_dict_2001.pdf) (<https://www.waterboards.ca.gov/ust/electronic_submittal/docs/edf_data_dict_2001.pdf>) 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](http://geotracker.waterboards.ca.gov/searchvvl.asp) (<https://geotracker.waterboards.ca.gov/searchvvl.asp>).
* Analytical results will be reported down to the laboratory’s method detection limit into GeoTracker. Reporting estimated values (values between the reporting limit and the MDL) is provided in GeoTracker EDF Guidance Letter Number 002 *Reporting of Estimated Results in EDF* (https://geotracker.waterboards.ca.gov/regulators/library/5878544449/EDF\_Letter\_No.\_002\_rev3\_2023-08-11.pdf).

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](https://denix.osd.mil/edqw/documents/) (<https://www.denix.osd.mil/edqw/documents/>). 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.**