National Atmospheric Deposition Program
PFAS-NTN SubNetwork (PFN)

PFN Data Fields

Field	Data Type	Description
siteID	Text	Site Identifier – 2 letter state or province designator followed by 2 digit number
NTNSampleID	Text	The NTN sample identifiers from which the PFAS sample orginiated.
DateON	Date/Time	Date and time the sample was installed on the collector, reported in Greenwich Mean Time (GMT)YYYY-MM-DD hh:mm format
DateOff	Date/Time	Date and time the sample was removed from the collector, reported in Greenwich Mean Time (GMT)YYYY-MM-DD hh:mm format
Duration	Decimal	The duration, in unit of Days, between the DateOn and DateOff.
CompoundClass	Text	The abbreviation of the chemical classification for which the analyte belongs. See end of metadata for full name.
Analyte	Text	The abbreviation of the analyte measured. See end of metadata for full name.
Flag	Text	Special indicator for the concentration: "<" indicates a value below the limit of detection. The sample LOD is displayed. "F" indicates a value between the limit of detection and the limit of quantitation. The sample value is displayed. (See end of metadata for LOD and LOQ values.)
Concentration	Decimal	The concentration of the specific analyte in units of ng/L. In cases where the concentration falls below the LOD, the LOD value is displayed. A value of -9.99 reflects either a missing value or an invalid value. See Analyte Notes and Sample Notes for additional details.
PFASSum	Decimal	The sum of concentrations, in units of ng/L, for analytes with valid values above the LOD.
PctDetTotal	Decimal	The percent of concentration for a specific analyte out of the total concentration for all valid analytes above the LOD.
Ppt	Decimal	The precipitation measured by the electronic rain gauge, in mm, for the NTN sample from which the PFN sample was collected.
Subppt	Decimal	The official measure of precipitation, in mm, for the NTN sample from which the PFN sample was collected. This measure uses the electronic rain gauge, or an estimate based on the NTN sample volume for cases where the rain gauge data is not available.
Svol	Decimal	The NTN sample volume in ml based on sample weight from field measurements.
Flux	Decimal	The daily analyte flux in units ng/m^2/day. This value is only calculated for valid analytes above the LOD.
FluxSum	Decimal	The sum of fluxes, in units of ng/m^2/day, for analytes with valid values above the LOD.

Field	Data Type	Description
DetLim	Decimal	The detection limit, in units of ng/L, for the specific sample. This varies based on sample volume that was extracted.
QuantLim	Decimal	The quantitation limit, in units of ng/L, for the specific sample. This varies based on sample volume that was extracted.
AnalyteNotes	Text	Laboratory notes on specific analyte measurements. Multiple notes are delimited by a pipe (|) symbol.
SampleNotes	Text	NTN and PFN notes for the overall sample. Multiple notes are delimited by a pipe (|) symbol. PFAS samples are not automatically invalidated by the NTN invalidating notes.
SampleType	Text	M (Missing) – No NTN paperwork and sample was received. D (Dry) – There was no precipitation during the collection period. No physical sample was available. T (Trace) – There was insufficient precipitation during the collection period. The physical sample is insufficient for NTN or PFAS analysis. W (Wet) – There was sufficient precipitation during the collection period to expect a sample and for NTN analysis. All M, D, and T PFAS samples are automatically coded as invalid PFAS samples. W samples may be invalid if no physical sample is received, or there is insufficient volume for PFAS analysis. (see SampleNotes)
ValidSample	Text	The validity of the PFAS sample overall. Y=Valid, N=Invalid
ModifiedOn	Text	The date of the last update made after PFN data has been published on the web. A blank date indicates no updates have been made since the sample has been published to the web.

Sample Note Codes

Code	Description	Invalidates NTN	Invalidates PFN
b (Bulk)	The collector was open for the entire collection period.	X	X
c (Contamination)	Debris is observed in the NTN sample, and multiple NTN analyte values exceed the 95th percentile values for that site.	X	
e (Extended)	Sample was not collected within the NTN protocol time limit of 194 hours (8 days + 2 hours).	X	X
f (Field Error)	Field handling problems occurred which compromised the NTN sample, or the NTN sample was received > 30 days beyond the sampleend date.	X	X

Code	Description	Invalidates NTN	Invalidates PFN
l (Lab Error)	Lab handling problems occurred which compromised the NTN sample.	X	
n (No Sample)	No NTN sample was received by the lab.	X	X
p (Precipitation)	The precipitation amount for the NTN sample could not be determined.	X	
u (Undefined)	The collector was open to dry precipitation during at least 6 hours over the sampling period.	X	X
v (Volume)	The sample volume collected is insufficient for NTN analysis despite indications of sufficient precipitation.	X	X
*INSF	The sample volume is insufficient for PFAS analysis.		X

NTN Invaliding notes do not automatically invalidate PFAS samples or analytes. Check the Validity column for sample validity.

PFN Analyte Note Codes

NOTE	DESCRIPTION
*SRU	IS Recovery is high
*CCVU	Continuing Calibration Check accuracy is high
*CCVL	Continuing Calibration Check accuracy is low
*QCSL	Laboratory Control Spike accuracy is low
*QCSU	Laboratory Control Spike accuracy is high
*DUP	Duplicate Relative Percent Difference Failure.
*SRL	IS Recovery is low. This automatically invalidates the analyte measurement.
*TIR	Transition Ion Ratio Failure. This automatically invalidates the analyte measurement.
*B	The analyte was detected in a blank at the level of 2x LOD or greater. This automatically invalidates the analyte measurement above the LOD.
*A	Lab accident - no results reported.
*INV	The analyte measurement is invalid. This is used in conjunction with the notes above.

All potentially invaliding PFN analyte notes are reviewed by lab staff. If the measurement is invalidated, the "*INV" note is added to the list of notes.

PFN Compound Classes and Analytes

Compound Class	Analyte	Full Name
(PFCA) Perfluoroalkyl carboxylic acids	PFBA	Perfluoro-n-butanoic acid
	PFPeA	Perfluoro-n-pentanoic acid
	PFHxA	Perfluoro-n-hexanoic acid
	PFHpA	Perfluoro-n-heptanoic acid
	PFOA	Perfluoro-n-octanoic acid
	PFNA	Perfluoro-n-nonanoic acid
	PFDA	Perfluoro-n-decanoic acid
	PFUnA	Perfluoro-n-undecanoic acid
	PFDoA	Perfluoro-n-dodecanoic acid
	PFTrDA	Perfluoro-n-tridecanoic acid
	PFTeDA	Perfluoro-n-tetradecanoic acid
(PFSA) Perfluoroalkyl sulfonic acids	PFBS	Perfluoro-1-butanesulfonate
	PFPeS	Perfluoro-1-pentanesulfonate
	PFHxS	Perflioro-1-hexanesulfonate
	PFHpS	Perfluoro-1-heptanesulfonate
	PFOS	Perfluoro-1-octanesulfonate
	PFNS	Perfluoro-1-nonanesulfonate
	PFDS	Perfluoro-1-decanesulfonate
	PFDoS	Perfluoro-1-dodecanesulfonate
(FTSA) Fluorotelomer sulfonic acids	4:2 FTS	1H,1H,2H,2H-Perfluorohexane sulphonic acid
	6:2 FTS	1H,1H,2H,2H-Tridecafluorooctane-1-sulphonic acid
	8:2 FTS	1H,1H,2H,2H-Perfluorodecanesulphonic acid
(FTCA) Fluorotelomer carboxylic acids	3:3 FTCA	3-Perfluoropropyl propanoic acid
	5:3 FTCA	3-Perfluoropentyl propanoic acid
	7:3 FTCA	3-Perfluoroheptyl propanoic acid
(FASA) Perfluorooctane sulfonamides	PFOSA	Perfluorooctanesulphonamide
	N-MeFOSA	N-Methyl Perfluorooctanesulfonamide
	N-EtFOSA	N-Ethyl Perfluorooctanesulfonamide
(FASAA) Perfluorooctane sulfonamidoacetic acids	N-MeFOSAA	N-methyl perfluorooctanesulfonamidoacetic acid
	N-EtFOSAA	N-ethyl perfluorooctanesulfonamidoacetic acid
(FASE) Perfllluorooctane sulfonamide ethanols	N-MeFOSE	2-(N-methylperfluoro-1-octanesulfonamido)ethanol
	N-EtFOSE	2-(N-ethylperfluoro-1-octanesulfonamido)ethanol

Compound Class	Analyte	Full Name
(PFECA) Per- and Poly-fluoroether carboxylic acids	HFPO-DA	2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3heptafluoropropoxy)-propanoic acid
	ADONA	Dodecafluoro-3H-4,8-dioxanoanoate
	PFMPA	Perfluoro-4-oxapentanoic acid
	PFMBA	Perfluoro-5-oxahexanoic acid
	NFDHA	Perfluoro-3,6-dioxaheptanoic acid
(PFESA) Perfluoroalkyl ether sulfonic acids	9Cl-PF3ONS	Potassium 9-chlorohexadecafluoro-3- oxanonane-1-sulfonate
	11Cl-PF3OUdS	Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate
	PFEESA	Potassium perfluoro(2-ethoxyethane)sulfonate

Reported analytes may change over time. Not all analytes listed here may be included in all reports.