

Explanation of Laboratory Report

The enclosed data report may use laboratory descriptions with which you are not familiar. The following definitions of those descriptions may assist you in understanding your sample results:

Analyte The chemical or substance of interest.

CAS Number *Chemical Abstracts Service Number*
A universal system to provide a unique, unmistakable identifier for chemical substances.

Result (ng/L) *Concentration in nanogram(s) per liter*
The amount of an analyte determined to be present in the sample analyzed by the laboratory.
1 nanogram per liter (ng/L) = 1 part per trillion (ppt)

ND *Not Detected*
Indicates the analyte was not detected.

DL *Detection Limit*
The lowest level at which the laboratory can reliably “see” that this analyte is present.

LOD *Limit of Detection*
The lowest level at which the laboratory can reliably “see” that this analyte is **not** present.

LOQ *Limit of Quantitation*
The lowest level at which the laboratory can reliably measure this analyte with a known degree of confidence and accuracy.
Amounts detected below the LOQ are qualified as estimated (J).

Qualifiers

“J” *Detect Estimated Value*
The analyte was detected but the concentration is an estimation due to detection sensitivity (result is less than the LOQ) or minor quality control issues.

“UJ” *Non-detect Estimated Value*
The analyte was not detected and there were minor quality control issues.

“J+” *Detect Estimated Value – Biased High*
The analyte was detected and considered an estimation that is possibly biased high due to minor quality control issues.

“J-” *Detect Estimated Value – Biased Low*
The analyte was detected and considered an estimation that is possibly biased low due to minor quality control issues.



Environment Testing

Example Data Report

Project Number: 41023998

Client ID:

Lab Smp ID:

Sample Type:

Collection Date:

% Moisture:

Matrix:

Sample Size:

Size Unit-Basis:

Sample
05/07/2025
NA
Drinking Water
266
mL

FES1211201622VBO

1 ng/L = 1 ppt
nanogram(s)
per liter part(s) per
trillion

The detection limit (DL) is the lowest level at which the laboratory can reliably "see" that this analyte is present.

The limit of detection (LOD) is the lowest level at which the laboratory can reliably "see" that this analyte is **not** present.

The limit of quantitation (LOQ) is the lowest level at which the laboratory can reliably measure this analyte with a known degree of confidence and accuracy.

Analyte	CAS No.	Result (ng/L)	Qualifier	DL	LOD	LOQ
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	ND		0.47	1.4	1.9
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6	ND		0.46	1.4	1.8
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2355-31-9	ND		0.46	1.4	1.8
Perfluorotetradecanoic acid (PFTeA)	376-06-7	ND		0.46	1.4	1.8
Perfluorotridecanoic acid (PFTriA)	72629-94-8	ND		0.46	1.4	1.8
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	ND		0.47	1.4	1.9
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	ND		0.94	1.4	2.8
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	ND		0.47	1.4	1.9
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	ND		0.47	1.4	1.9
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	ND		0.47	1.4	1.9
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	13252-13-6	ND		0.47	1.4	1.9
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	151772-58-6	ND		0.47	1.4	1.9
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	113507-82-7	ND		0.47	1.4	1.9
Perfluorobutanoic acid (PFBA)	375-22-4	ND		0.94	1.4	2.8
Perfluorobutanesulfonic acid (PFBS)	375-73-5	2.1		0.47	1.4	1.9
Perfluorodecanoic acid (PFDA)	335-76-2	ND		0.47	1.4	1.9
Perfluorododecanoic acid (PFDoA)	307-55-1	ND		0.47	1.4	1.9
Perfluoroheptanoic acid (PFHpA)	375-85-9	ND		0.47	1.4	1.9
Perfluoroheptanesulfonic acid (PFHpS)	375-92-8	ND		0.47	1.4	1.9
Perfluorohexanoic acid (PFHxA)	307-24-4	ND		0.47	1.4	1.9
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	ND		0.47	1.4	1.9
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	ND		0.47	1.4	1.9
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	ND		0.47	1.4	1.9
Perfluorononanoic acid (PFNA)	375-95-1	ND		0.47	1.4	1.9
Perfluorooctanoic acid (PFOA)	335-67-1	1.2	J	0.47	1.4	1.9
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	ND		0.47	1.4	1.9
Perfluoropentanoic acid (PFPeA)	2706-90-3	ND		0.47	1.4	1.9
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4	ND		0.47	1.4	1.9
Perfluoroundecanoic acid (PFUnA)	2058-94-8	ND		0.47	1.4	1.9

This column identifies the data qualifiers that apply to a given result. Possible final qualifiers are:

"J" (Detect Estimated Value) – The analyte was detected but the concentration is an estimation due to detection sensitivity (result is less than the LOQ) or minor quality control issues.

"UJ" (Non-detect Estimated Value) – The analyte was not detected and there were minor quality control issues.

"J+" (Detect Estimated Value – Biased High) – The analyte was detected and considered an estimation that is possibly biased high.

"J-" (Detect Estimated Value – Biased Low) – The analyte was detected and considered an estimation that is possibly biased low.

The result for PFOA:

PFOA was detected in the sample at 1.2 ng/L (1.2 ppt).

The "J" qualifier means that the PFOA was detected but the *amount* detected is estimated.

The result for PFBS:

PFBS was detected in the sample at 2.1 ng/L (2.1 ppt).

The result for PFOS:

PFOS was not detected in the sample.
This is reported as "ND" (Not Detected).