



PFAS Testing in Canada

What are Perfluoroalkyl Substances?

Perfluoroalkyl Substances (PFAS) are a family of fluorine containing chemicals used in heat, stain, and water resistant products. Due to their persistence, toxicity and bioaccumulative potential, these compounds are of increased concern to environment and health agencies.

Aqueous film forming foams (AFFF) contain PFAS compounds and are used in fighting hydrocarbon fueled fires. The US military is the largest user of AFFF. The use of AFFF has led to groundwater and surface water contamination. The primary PFAS of interest related to AFFF contamination are perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA). The production of PFOS-based AFFF products stopped in 2002, but huge stockpiles remain at DoD bases throughout the world.

The European Union required the removal of all stockpiles of PFOS-based AFFF from service by June 27, 2011 and Environment Canada required the removal of existing stockpiles by May 29, 2013.

ALS developed LC/MS/MS methods years ago for PFAS analysis and offers analysis of PFOA, PFOS, and other PFAS as listed below.

PFOA/PFOS analysis at ALS

The ALS Method Reporting Limits for PFOS are:

- Water: 0.005 µg/L
- Soil: 0.50 µg/kg
- Tissues: 0.50 µg/kg

The ALS Method Reporting Limits for PFOA are:

- Water: 0.001 µg/L
- Soil: 0.10 µg/kg
- Tissues: 0.10 µg/kg

SERVICE

- On-time data delivery and rapid TAT
- Experienced staff with expertise
- Available after-hours and weekends

VALUE

- Instant access to data with Webtrieve™ and Webtrieve™ Mobile App
- Custom bottle kits with pre-printed labels and COCs

RELIABILITY

- Technical experts that can answer your most difficult questions
- A real focus on quality and process control with a rigorous QA/QC program

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Visit our website for more information about ALS.



Scan the QR Code with your smartphone or search for "ALS Environmental" on YouTube.

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Reporting Limits at the ALS laboratory in Waterloo

Acronym	Matrix	LOR	Unit
PFOS	Water	0.005	µg/L
PFOA	Water	0.001	µg/L
PFBA	Water	2.0	µg/L
PFPeA	Water	0.001	µg/L
PFHxA	Water	0.001	µg/L
PFHpA	Water	0.001	µg/L
PFNA	Water	0.001	µg/L
PFDA	Water	0.005	µg/L
PFUDA	Water	0.001	µg/L
PFDoA	Water	0.005	µg/L
PFTTrDA	Water	0.005	µg/L
PFTeDA	Water	0.005	µg/L
PFBS	Water	0.001	µg/L
PFHxS	Water	0.001	µg/L
PFHpS	Water	0.001	µg/L
PFDS	Water	0.005	µg/L
PFOSA	Water	0.005	µg/L
N-MeFOSA	Water	0.005	µg/L
N-EtFOSA	Water	0.005	µg/L
N-MeFOSE	Water	0.005	µg/L
N-EtFOSE	Water	0.001	µg/L

Matrix	LOR	Unit
Soil	0.50	µg/kg
Soil	0.10	µg/kg
Soil	300	µg/kg
Soil	0.10	µg/kg
Soil	0.10	µg/kg
Soil	0.10	µg/kg
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Soil	0.10	µg/kg

Matrix	LOR	Unit
Tissue	0.50	µg/kg
Tissue	0.10	µg/kg
Tissue	300	µg/kg
Tissue	0.10	µg/kg
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