



# Per- and Polyfluorinated Alkyl Substances (PFAS)

## What are PFAS Compounds?

Per- and Polyfluorinated Alkyl Substances (PFAS) are a large group of manufactured compounds that are used in a wide range of industrial and consumer applications. PFAS are also the principle components in Aqueous Film Forming Foams (AFFF) firefighting products that meet military specifications

PFAS compounds are used to repel oil and water in textile products like clothing, carpeting and furniture as well as in food packaging and in the manufacture of fluoropolymers used in non-stick cookware. Some of the unique chemical characteristics that make PFAS compounds attractive for use in surface coatings also render them resistant to biodegradation in the environment. Therefore, PFAS compounds are persistent and have been shown to bioaccumulate in humans and wildlife. PFAS compounds have been found throughout the environment in groundwater, surface water, soil and sediment. Studies have shown detections of PFAS in air, biota and food.

## Leading the Industry in PFAS Analysis

When dealing with contaminants of emerging concern, it is vital that you work with an experienced laboratory capable of providing defensible data, especially due to the lack of a standard regulatory environment and the difference in reference methodology emerging. Utilizing industry-leading practices, Eurofins not only has dedicated laboratory space and instrumentation for PFAS analysis, but also dedicated teams who provide the highest quality results each and every time. These teams provide an unmatched level of experience, and a capacity to analyze tens of thousands of PFAS samples per month, across our Eurofins laboratories.

PFAS methodologies and regulations are continually evolving and additional compounds are identified and provinces continue to expand their testing requirements for these contaminants. With our dedicated teams, Eurofins is able to offer you the flexibility to develop and adapt to the continually changing analytical needs.





## Eurofins Offers you:

- The ability to test a wide range of matrices for **up to 75 PFAS compounds**. 70 PFAS are supported from a single LCMSMS analysis with 5 FTOH PFAS supported by GC/MS/MS analysis.
- **North America's largest capacity with 40 instruments** dedicated to PFAS analysis and a throughput of 50,000 samples per month.
- The use of **gold-standard methods** including EPA draft method 1633 as well as EPA 527.1 and 533.
- **Dedicated sample preparation and cleanup space** minimizing the chance of cross contamination.
- Laboratories dedicated to drinking water analysis that have been analyzing PFAS for over 12 years as well as additional drinking water testing capacity throughout our network of laboratories.
- Analysis of **GenX and other perfluoro ether carboxylic acids (PFECA)** used as replacement compounds.
- Analytical results that **meet or exceed current regulatory and advisory limits**.
- Multiple accreditations including **CALA, DoD QSM, ISO 17025, NELAC** and various provincial/ state specific programs.

## Capabilities and Capacity:

Eurofins is a global leader in providing innovative and high-quality environmental analytical laboratory services. Our PFAS laboratories are equipped with state-of-the-art technology and instrumentation. With thousands of employees dedicated to environmental testing, Eurofins has the capacity and financial stability to meet your project needs.

We perform PFAS analysis on a variety of environmental matrices including:

- Air
- Sediment
- AFFF
- Drinking Water
- Leachate
- Emulsions and Fluoropolymer Dispersions
- Groundwater
- Tissue
- Wastewater
- Biosolids
- Food, feed and agriculture products
- Soil
- Consumer products
- Blood/serum

We use state-of-the-art LC/MS/MS instrumentation in support of trace-level reporting of PFAS contaminants as well as GC/MS/MS for the analysis of other emerging contaminants. Within our isolated PFAS laboratories, we run numerous dedicated systems over multiple shifts, giving us unmatched capacity for any project size. We have optimized our systems so that the data reported to you meets or exceeds all of the current regulatory or Health Advisory limits. We offer several analytical methods to meet provincial, state, federal and DoD criteria. The isotope dilution method can be utilized when testing potable water, non-potable water, soil/sediment, tissue and nontraditional matrices. To accommodate unique project reporting requirements, data can be provided in a client specific data deliverable format.

Our depth of knowledge, redundancy of systems and state-of-the-art facilities are key to our success in supporting the PFAS market. Eurofin's reinvestment in the business ensures that we continue to offer highly sensitive methods, low reporting limits and compliance with method protocols meeting regulatory guidance over the duration of the client program.

## Eurofins Environment Testing Canada

[www.eurofins.ca](http://www.eurofins.ca)

### Ottawa Laboratory

8-146 Colonnade Road  
Ottawa, ON K2E 7Y1  
Tel | 613-727-5692

### Québec Laboratory

4495 boulevard Wilfrid-Hamel,  
bureau 150  
Québec, QC G1P 2J7  
Tel | 418-977-1220

### Longueuil Laboratory

2325 boulevard Fernand-Lafontaine  
Longueuil, QC J4N 1N7  
Tel | 514-332-6001

### St-Bruno Laboratory

1390 Rue Hocquart  
Saint-Bruno-de-Montarville, QC  
J3V 6E1  
Tel | 450-441-5880

### North York Depot

401 Magnetic Drive, Unit 1  
North York, ON M3J 3H9  
Tel | 416-661-5287  
Mob | 905-301-3385

### St. Catharines Depot

380 Vansickle Road, Unit 630  
St. Catharines, ON L2S 0B5  
Tel | 905-680-8887  
Fax | 905-680-4256

### Kingston Depot

608 Norris Court  
Kingston, ON K7P 2R9  
Tel | 613-634-9307  
Fax | 613-634-9308



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