

PER-AND POLYFLUOROALKYL SUBSTANCES

PFAS STATEMENT



Advanced Environmental Laboratories, Inc.

WHAT IS IT?

PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS) ARE COMPOUNDS CLASSIFIED AS CONTAMINANTS OF EMERGING CONCERN (CEC'S).

They are sometimes referred to as "Forever Chemicals" due to their persistence and bioaccumulative properties. Since their development in the 1950's, PFAS has been widely integrated into an array of manufactured products to reduce friction or as a protective coating. It is also an extremely effective component of fire-fighting foams. Because of the ubiquitous nature of PFAS, it can be found in surface water, groundwater, soil, and air. It is highly mobile in the environment and impacts rural communities as well as highly populated urban areas.

WHO CAN YOU TRUST TO TEST FOR PFAS?

ADVANCED ENVIRONMENTAL LABORATORIES

(AEL) AEL is headquartered in Jacksonville, FL and is the largest laboratory network in the state of Florida. We are also the largest small business environmental testing laboratory in the nation. In addition to PFAS testing, AEL has an expansive portfolio of analytical and data management capabilities. Privately owned, AEL has supported the environmental community with service excellence and technical expertise for more than 25 years.

WHY ARE WE WORRIED?

RESEARCH SUGGESTS THAT THE MOST COMMON ROUTE OF EXPOSURE TO PFAS IS THROUGH DRINKING WATER.

Due to their persistence in the environment and bioaccumulative properties, PFAS have been linked to long term health impacts in humans including effects on the liver, kidney, immune system, and cancer. Thus, federal and state regulators have focused on better understanding the impacts to people and the environment and setting new regulatory guidelines to reduce exposure. There are currently no federal drinking water regulations, however in 2022 the EPA issued updated interim Health Advisory Limits (HAL's) for PFOA and PFOS in the parts per quadrillion levels, suggesting the safe levels in drinking water are near zero. Final HAL's were also established for PFBS and GenX chemicals. It is expected that the EPA will finalize a National Primary Drinking Water Standard for PFAS in 2024 under the Safe Drinking Water Act (SDWA).

WHERE DO WE START?

CONTACT AEL TO DISCUSS YOUR PFAS TESTING OPTIONS

AEL offers several options to support investigation, remediation and PFAS compliance initiatives from coast to coast, providing Level IV data packages and an array of electronic data management configurations. We are certified for drinking water methods EPA 533, EPA 537.1, and approved for EPA's UCMR 5 program. Non-potable water and soils can be analyzed by EPA Draft Method 1633 (version 4) or by LC-MS/MS Compliant with Table B-15 of DoD QSM 5.4. We also understand that our clients have time sensitive projects and need fast reliable results. AEL developed screening methods EPA 8327 and ASTM D8421 to offer faster turn around times so our clients can make critical project decisions. **Call us today** to learn more about your PFAS testing options.

CONTACT

904.363.9350 OR sales@aellab.com

LOCATIONS

FL - JACKSONVILLE, TAMPA, GAINESVILLE, ORLANDO,
MIAMI, FORT MYERS, TALLAHASSEE

CERTIFICATIONS

FD0H/TNI/DoD-ELAP/ISO 17025



PFAS CAPABILITIES



Leaders in Environmental Testing

AEL is a leader in environmental laboratory testing, providing unmatched quality and customer service. We perform PFAS analysis in our state-of-the-art laboratory using Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS). Using the isotope dilution method we can achieve low reporting limits that meet the proposed EPA regulatory guidelines for drinking water. We also test for PFAS in a variety of matrices including drinking water, groundwater, surface water, wastewater, soil/sediment, leachate, and hazardous waste. Our client portfolio includes cities, counties, municipalities, consultants and engineers, Department of Defense (DoD), and other federal agencies and programs.

Certifications and Small Business Enterprise



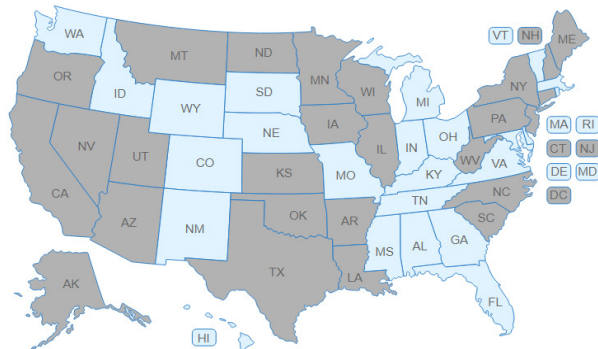
AEL has nationwide coverage with TNI certification in FL, GA, AL, NC, VA, and WA as well as eligibility for reciprocity in 19 other states. Additionally, we are ISO-17025 accredited.



AEL has been performing Department of Defense (DoD) work since 2001 and has held DoD-ELAP accreditation since 2011.



We are the nation's largest small business environmental laboratory therefore we combine the customer service and SBE contract requirements of a small business while still providing the capabilities and qualifications of a large laboratory network.



Puerto Rico & Virgin Islands: Accepts Reciprocity with Florida TNI Certification



PFAS Laboratory in AEL's Jacksonville, FL Corporate Headquarters

Why Use AEL?

- Four week standard turn around time (TAT) with options for expedited results
- A wide range of test methods to fit every project need, including: EPA 533, EPA 537.1, EPA Draft Method 1633, EPA 8327, ASTM 8421, and PFAS by LC-MS/MS Compliant with Table B-15 of QSM 5.4
- Level IV data packages, electronic data deliverables (EDDs), and custom reports available
- Multiple instruments and automated sample prep systems to achieve high throughput
- A team of experienced analysts and project managers to ensure success on every project



PFAS TESTING CAPABILITIES



AEL partners with clients across the United States to help solve their most complex PFAS challenges. We offer several options for PFAS testing including: EPA 533, EPA 537.1, EPA Draft Method 1633, EPA 8327, ASTM D8421, and PFAS by LC-MS/MS Compliant with Table B-15 of QSM 5.4.

DRINKING WATER ANALYSIS

In December 2019, the USEPA published updates to Methods 533 and 537.1 for Drinking Water. EPA Method 537.1 included 18 PFAS compounds and Method 533 added eleven “short chain” compounds (carbon chain lengths between 4 and 12) to encompass a total of 29 PFAS in drinking water. Both methods specify isotope dilution quantitation with solid phase extraction (SPE) followed by LC-MS/MS analysis.

AEL is certified to perform both Method 533 and 537.1 in drinking water as well as certified by the EPA to perform UMCR 5 PFAS analysis. AEL has expanded our PFAS lab by adding new instruments and staff in anticipation of a new National Primary Drinking Water Standard for six PFAS (expected in 2024).



NON-POTABLE WATER AND SOIL

Until 2021 there was not an EPA validated test method for non-drinking water matrices. AEL developed an in-house method for analysis of non-potable water and solids samples by LC/MS/MS as SOP-041. We also developed a method for PFAS by LC/MS/MS Compliant with Table B-15 of the DoD QSM 5.4. As the need for EPA methods in non-drinking water grew, the EPA developed Draft Method 1633 which covers 40 PFAS compounds in wastewater, groundwater, surface water, landfill leachate, and solid matrices. AEL began running Draft method 1633 in 2022 and is currently using the latest draft (Draft 4) for all 1633 analysis.

Any customers seeking analysis for non-potable water or solids should contact AEL to discuss the method options. One of the main challenges to Draft Method 1633 is the costly and time-consuming sample extraction process. In many cases, AEL can offer solutions to reduce cost and expedite turn-around-time by running these samples by an alternative method. For projects that dictate Draft Method 1633, results can be available as soon as 4 weeks.

To set up testing, please contact your local AEL representative, email us at sales@aellab.com, or call us at 904-363-9350.

