

MOBILAB™ FOR PFAS

Onsite PFAS Analysis by LC/MS/MS

Cascade offers the **only mobile lab in the industry capable of analyzing PFAS in the field in the single digit, parts-per-trillion range.** We offer fully defensible data from an accredited mobile laboratory, allowing our clients to cost-effectively delineate PFAS plumes and source areas.

Cascade MobiLab Features:

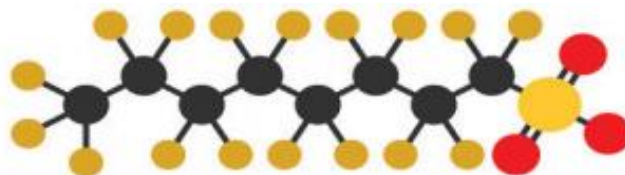
- Procedures follow EPA Method 537 and ASTM Methods D7979 and D7968
- DoD Environmental Laboratory Accreditation Program (ELAP) certification based on DoD QSM 5.1
- Detection limits and data quality equal to, or better than, fixed labs
- Analyses of 24 compounds in soil and water
- Analysis time of typically 25 minutes per sample, 20 to 30 samples per day
- Analytical cost that are typically lower than fast turnaround times at fixed labs
- Daily rates that enable more QA/QC samples
- Sample preparation includes traditional SPE, robotic inline SPE and Direct Aqueous Injection
- Supports Triad Approach and dynamic workplans
- Fast, economical and accurate results



Shimadzu Model 8050 LC/MS/MS

In conjunction with Cascade's high resolution site characterization tools and techniques (such as Waterloo^{APS}, CORE^{DFN}, drilling and direct push), our PFAS MobiLab services provide our clients with the ability to efficiently and effectively characterize PFAS sites in a single mobilization.

The PFAS Mobile Lab is housed in a self-contained trailer for ready mobilization and set up. And because the analyses are conducted onsite, our client's sampling teams do not need to spend valuable field time and money shipping samples.



Perfluorooctane Sulfonate

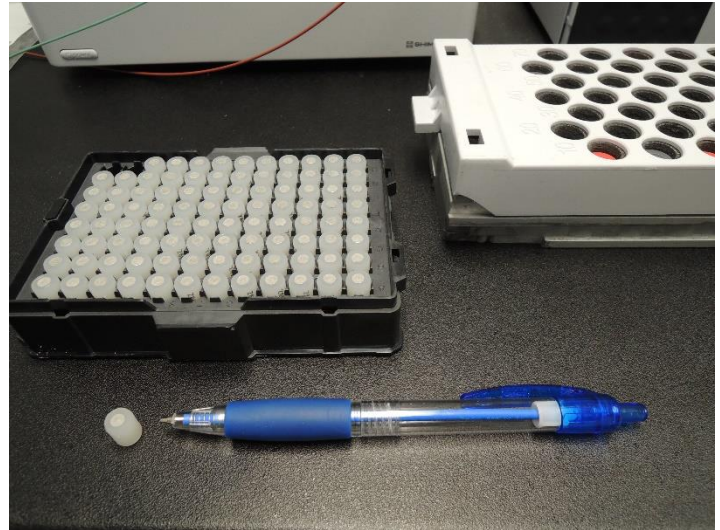
The selection of the specific sample introduction and sample concentration technique is dependent on the detection limit requirements and/or the need for sample cleanup to remove matrix interferences. We use an isotopic dilution internal standard calibration curve using labelled analogues of the target compounds for quantification.

Cascade's analytical instrumentation includes Shimadzu Model 8050 LC/MS/MS and a Gerstel Multi-Purpose Sampling (MPS) unit for the direct injection and in-line SPE techniques.

We can also augment PFAS analyses with NELAP-accredited sample analyses for volatile organic compounds (VOCs) and semi volatile organic compounds (SVOCs) for complex contaminant mixtures such as those found at firefighting training areas at DoD sites.



PFAS Mobile Laboratory in Action



In-line Solid Phase Extraction Cartridge

Results are available several times per day, and we can prioritize samples as needed.

Many PFAS field sampling programs have encountered cross contamination issues which only become evident following demobilization. With the MobiLab onsite, these issues are recognized and rectified while still in the field. In addition, the PFAS MobiLab is well suited to prevent contamination due to its dedicated analysis and controlled access environment.

MobiLab™

DEFENSIBLE REAL-TIME ANALYTICS

IN SUMMARY...

- MobiLab™ PFAS SERVICES PROVIDE GREAT VALUE TO PFAS INVESTIGATIONS
- DATA QUALITY IS AS GOOD AND AS RELIABLE AS A FIXED LAB'S DATA
- ANALYTICAL COSTS ARE TYPICALLY LOWER THAN FAST TAT COSTS FROM FIXED LAB
- FIELD TEAM SITE WORK OPTIMIZED DUE TO REDUCED PACKING AND SHIPPING SAMPLES

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www.cascade-env.com

Nationwide Office Locations • Headquartered in WA