PFAS EPA Draft Method 1633 Laboratory Challenges

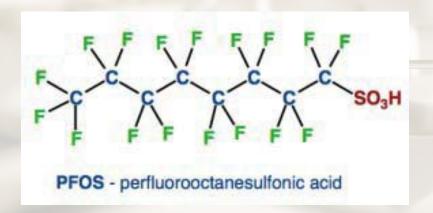
Jannie Shaw-Busby Senior Chemist

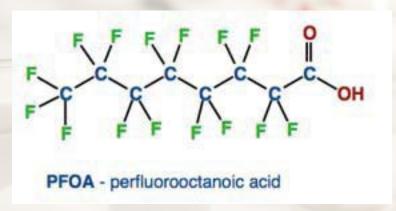
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DOECAP ASP Workshop 2022

Overview

- GEL's PFAS Experience and Capacity
- GEL's Accreditations and Licenses
- EPA Draft 1633 Laboratory Challenges





GEL's Experience and Capacity

- Over 20 years of experience with LC/MS/MS technologies for DOE
- Multiple matrices: drinking water, stormwater, groundwater, wastewater, leachates, biosolids, tissue, soil, AFFF, and consumer products
- Subcontracts with all major DOE sites. Multiple DOE sites have submitted samples for PFAS analysis.
- Dedicated PFAS preparation and instrument laboratories
- Five dedicated LC/MS/MS instruments
- Expanding laboratory space and adding two more LC/MS/MS instruments in Q1 2023





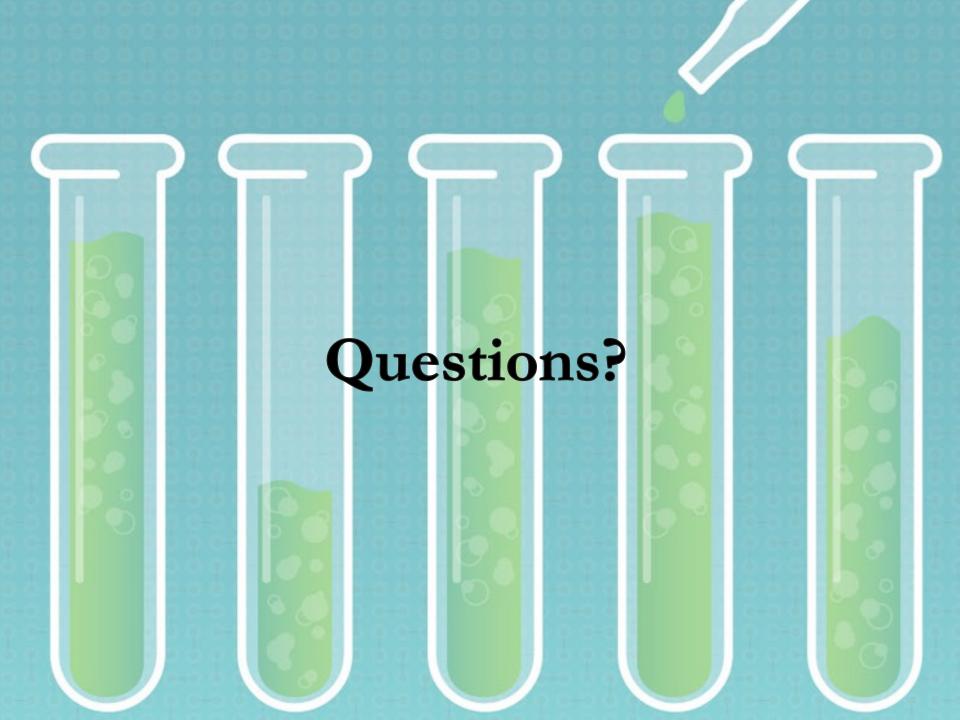


GEL's Accreditations and Licenses

- Extensive state and federal PFAS accreditations
 - o DOE/DoD ELAP ISO 17025:2017 and numerous state certifications for EPA 533, EPA 537.1 and EPA 537.1 Modified
 - o NELAC certification for EPA Draft Method 1633
 - Pending DOE/DoD ELAP ISO 17025:2017 for EPA
 Draft Method 1633
- Radioactive Materials License

EPA Draft 1633 Laboratory Challenges

- Sample storage
- Sample screening to prevent contamination
- Requirement to determine percent solids for water samples
- Maximum allowable sample dilution of 10x
- Dual extraction for solid and tissue samples
- Current method includes 40 compounds, potential for more





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