PFAS Activities Update

Laurence Libelo, Ph.D., P.G.
Chief, Science Policy Branch
Office of Superfund Remediation and Innovative Technology
U.S. Environmental Protection Agency
• EPA will initiate steps to evaluate the need for a maximum contaminant level (MCL) for PFOA and PFOS. We will convene our federal partners and examine everything we know about PFOA and PFOS in drinking water.

• EPA is beginning the necessary steps to propose designating PFOA and PFOS as “hazardous substances” through one of the available statutory mechanisms, including potentially CERCLA Section 102.

• EPA is currently developing groundwater cleanup recommendations for PFOA and PFOS at contaminated sites and will complete this task by fall of this year.

• EPA is taking action in close collaboration with our federal and state partners to develop toxicity values for HFPO-Dimer Acid (GenX) and PFBS by this summer.
By visiting impacted communities, EPA intends to hear directly from the public on how to best help states and communities facing this issue. Using information from the National Leadership Summit, community engagements, and public input provided by the docket, EPA plans to develop a PFAS Management Plan for release later this year.

**Exeter, New Hampshire** (June 25-26, 2018)
**Horsham, Pennsylvania** (July 25, 2018)
**Colorado Springs, Colorado** (August 7-8, 2018)
**Fayetteville, North Carolina** (August 14, 2018)

https://www.epa.gov/pfas/pfas-community-engagement
Additional PFAS Efforts

Developing Analytic Methods for Regulation

• Draft SW-846 Method 8327 Direct Inject (DI) LC/MS/MS for non-potable waters (surface water, groundwater, waste water)
  • Currently in external validation

• Draft SW-846 Method 8328 Solid Phase Extraction (SPE) isotopic Dilution Method for non-potable waters and solid matrices (soils, sediments, waste)
  • Currently being drafted
  • R3 and ORD/NRML performing single lab validation
  • DoD has offered to help with external validation
Additional PFAS activities

- Groundwater Sampling Standard Operation Procedures guideline
  - In final technical review
- Updating list of uses and industries and manufacturing and use sites
- Evaluating Draft Toxicity Assessments from ATSDR, ORD, OW and others
- Working with science community, states, other agencies, etc. to understand PFAS science
- Providing Technical Support
How many PFAS chemicals are there?

- Probably 5000-10,000s
- 1230+ chemical with CF$_2$-CF$_2$ reviewed as new chemicals in EPA/OPPT PMN program since about 1980
- Chemical Abstract Service lists 33,469,312 fluoro compound
  - 4730 Perfluoro-related CAS numbers
- TSCA Inventory - 10,619 fluoroethers
- Several hundred being found in environmental samples