

Per- and Polyfluoroalkyl Substances (PFAS)

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OFFICE OF GROUND WATER
AND DRINKING WATER

EPA's Current PFAS Activities



- Focused on providing tools to states and local communities
- Four broad priorities:
 - Fill data gaps related to human health toxicity to inform public concerns and risk mitigation
 - Establish validated methods for measuring many PFAS in different media
 - Provide information on effective treatment technologies
 - Assure accurate and timely risk communications

National PFAS Leadership Summit May 22-23



- Engage states, tribes, federal partners, industry and national NGOs on effective strategies to manage and communicate PFAS challenges in the environment
- Following the summit, EPA will travel to states with communities impacted by PFAS to further engage on ways the agency can best support work occurring at state, local and tribal levels
- EPA plans to develop a PFAS Management Plan using information gained from the Summit, community engagements and public input

Current PFAS Research Activities



Human Health/Toxicity

- Understand human health toxicity
- Inform risk mitigation activities
- Chemical library and high throughput toxicity testing

Analytical Methods

- Establish validated laboratory methods for measuring PFAS in different environmental media

Site Characterization/Exposure

- Identify and estimate human exposure to PFAS from different sources

Treatment/Remediation

- Reduce PFAS exposures
- Treat and remediate drinking water and contaminated sites

Current PFAS Activities – Drinking Water



Health Advisories

- EPA published Drinking Water Health Advisories (HA) in 2016 for PFOA and PFOS

Toxicity Values for GenX and PFBS

- Led by EPA's Office of Water and the Office of Research and Development
- EPA is working closely with federal and state partners to develop toxicity values
- EPA anticipates peer review in June – July 2018 followed by a public meeting in September 2018

Current PFAS Activities – Site Cleanup



EPA Federal Facility Superfund Program

- Actively engaged in PFAS activities at 58 Federal Facility NPL Sites
- This number is likely to grow since there are known or suspected contaminations of PFAS at many DoD Federal Facility NPL Sites
 - PFAS detections in groundwater range from non-detect (based on analytical method limitations) or slightly exceeding the Drinking Water Health Advisory of 70 ppt (PFOA and PFOS combined) to 2,000,000 ppt
- Developing groundwater cleanup goals for PFAS at contaminated sites

Current PFAS Activities - TSCA



PFOA Stewardship Program

- Eight companies participated in the program and successfully eliminated production of PFOA
- Resulted in phase-out of PFOA and related PFAS, including potential PFOA precursors, by these companies by the end of 2015

EPA's New Chemicals Program

- Since 2000 EPA has reviewed hundreds of pre-market alternatives for PFOA and related chemicals
- Most were approved with restrictions and data-generation requirements

External Coordination and Collaboration



Collaboration with partners is critical to solving PFAS challenges!