

PFAS Testing at a Sampling of State Public Health/Environmental Laboratories

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Public Health Laboratory

- 2003: Groundwater testing in area east of Twin Cities metro
- 2007: Added biomonitoring, performed 3 rounds of testing on citizens living in affected areas
- Matrices: drinking, ground water; landfill leachate; serum (blood); study on dust/soil & produce
- Impact:
 - Interventions based on lab data: public water system (PWS) filtration and added PWS connections or treatment systems to homes w/ wells
 - 2010, State of Minnesota sued alleged responsible party for “natural resource damages.” In winter 2018, lawsuit settled out of court for >\$800 million.



California EPA

Dep't of Toxic Substances Control Lab - Berkeley

- 2006: California Environmental Contaminant Biomonitoring Program established through legislation.
 - First DTSC Lab PFAS matrix: serum ~ 10 yrs ago
- Matrices: drinking, surface, ground, waste waters & serum (blood)
 - Targeted Analysis
 - Non-Targeted Analysis
- Current Research: Investigating association of tap water and resident exposure
- Future Research: Applying for grant to analyze 1000 maternal serums, correlate with public water system



New Jersey Department of Health Environmental and Chemical Laboratory Services

- 2014: Started PFAS method development
- NJ health-based (MCL) drinking water standards:
 - 2017: PFOA - 14 ng/L
 - 2018: PFNA – 13 ng/L; Proposed and NJDEP review: PFOS 13 ng/L
- Matrices: drinking water (14 analytes) & serum (12 analytes)
- Provides technical help to state and others on PFAS compounds that lab does not have specific analytical methods



General State Public Health/Environmental Laboratory Considerations

- Some PHLs have aged LC/MS/MS system and may not, through certain methods, be able to detect the low levels required
- Demand for test, but no consistency in methods/certifications
- Lack of staff and resources
- Have conversations between PHL and agency early and often

