

Per-and Polyfluoroalkyl Substances (PFAS) Capability Statement



- **HSW Engineering, Inc. (HSW)** has developed peer-reviewed comprehensive PFAS sampling guidelines for sites throughout the U.S.
- HSW experts have experience evaluating PFAS data and site-specific water conditions at large industrial sites.
- HSW has designed and installed effective treatment systems for source treatment.
- Development and execution of a statewide PFAS investigation to evaluate potential impacts at dry cleaning/laundry facilities.
- HSW serves on the national ITRC and ASTM PFAS committees, responsible for writing and reviewing guidance on PFAS regulation, sampling and analysis techniques, and treatment/remediation technologies.



HSW's PFAS Detection and Remediation Capabilities

Our experienced team develops reliable and cost-effective approaches to identify and resolve PFAS challenges, including:

Surveying PFAS Sources

- Identify major/secondary sources and potential impacts
 - Major and minor manufacturing and industries
 - AFFF-related sites (fire training facilities, airports, flammable liquid fire sites)
 - Waste management facilities (landfills, wastewater treatment, biosolid application)
- Predict fate and transport/transformation processes and distribution from point sources
- Differentiate sources and background levels
 - Dominant diagnostics/indicators of PFAS originating from different sources and manufacturing processes
 - Statistical analysis (spatial trends, correlation to geochemical parameters) to differentiate site specific impacts from background or other sources

Site Characterization & Sampling

- Developing target analytes (individual PFAS vs precursors) sampling media and location
- Proactive site planning and phased cost-effective sampling approaches
- Cross contamination handling and quality control following [HSW's PFAS Guidelines](#)



Data Validation

- Data validation per EPA Level IV analytical data packages (EPA Method 537 v1.1) and DoD Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1.1
- Overall assessment of analytical data usability

Treatment Evaluation & Operation

- Technical evaluation and/or feasibility study to select and design cost effective remediation/treatment options based on site characteristics, PFAS constituents and co-contaminant levels and cleanup goals

Toxicity & Risk Assessment

- Comprehensive understanding of federal and state advisories, plus enforceable regulation levels
- Development of site-specific cleanup levels

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