



EA Engineering,
Science, and
Technology, Inc., PBC



Chemicals and Contaminants of Emerging Concern

Per- and Polyfluoroalkyl Substances (PFAS)



Risk Assessment/
Communication



Specialized
Analytical
Methods/
Environmental
Forensics



Conceptual
Site Model
Development



High
Resolution Site
Characterization



Regulatory
Support



Drinking Water
Treatment
System Design/
Install/O&M



Waste
Management
Solutions



Fate and
Transport
Modeling



Environmental
Media Sampling

INDUSTRY LEADERSHIP

IMPROVING THE QUALITY OF THE ENVIRONMENT IN WHICH WE LIVE, ONE PROJECT AT A TIME®

EA has leveraged its collective PFAS experience to assemble an in-house Subject Matter Expert Work Group of specialists in toxicology, remediation, chemistry, quality systems, engineering design, forensics, and regulatory policy to assist clients with the challenges of collecting, analyzing and remediating PFAS.



Services



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Project Types



Research and Development

- Toxicology studies
- Wastewater treatment studies
- Sampling technologies
- Treatment technologies



Site Characterization

- Historical records review/
preliminary assessments
- Site investigations
- Remedial investigations



Mitigation and Remediation

- Alternative water supply
- Residential/commercial and
municipal drinking water
treatment systems
- IDW and AFFF treatment
and disposal
- Remedial solutions
evaluations

Industry Leadership. Specialized Expertise.



Fairchild Air Force Base

EA is performing operation and maintenance of approximately 80 residential point-of-entry granular activated carbon (GAC) filtration systems and one 1,200 gpm GAC filtration system to remove PFOS and PFOA from drinking water in the community around Fairchild AFB. The team is also performing a CERCLA RI at Fairchild AFB by collecting environmental samples and performing gamma logging and aquifer testing to delineate the extent, fate, and transport of PFAS impacts in soil and groundwater.



Fort Leavenworth

EA is performing a CERCLA RI to delineate vertical and horizontal extent of PFAS contamination resulting from multiple AFFF releases in a deep, complex alluvial deposition setting. High-resolution site characterization methodologies will be used to refine our understanding of subsurface conditions and to determine if additional actions are needed to mitigate risk to human health and the environment.



Kroll Well Superfund Site

EA designed and oversaw the installation and startup of a 300 gpm granular activated carbon treatment system to remove PFOA from a municipal drinking water supply source.



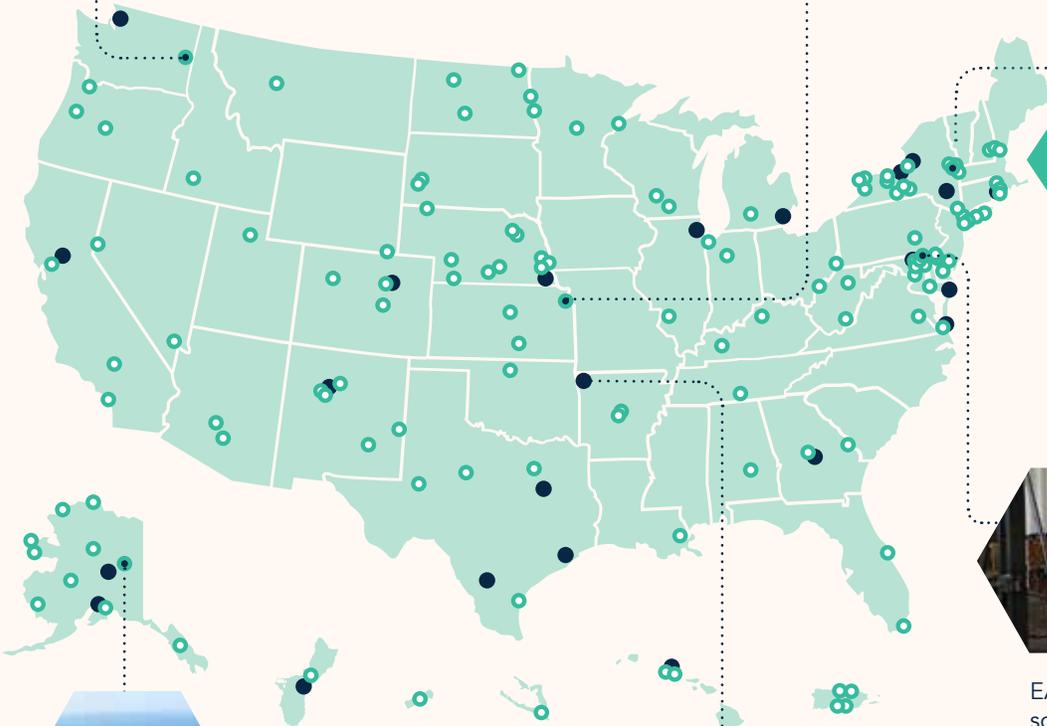
ITD/TO Study

EA Performed a proof-of-concept pilot-scale study evaluating ex situ indirect thermal desorption (ITD) coupled with thermal oxidizer (TO) technology to achieve "complete and irreversible destruction" of PFAS in soil. We are currently preparing to scale up the technology to perform a field scale study in a follow-on project



EnviTreat Laboratory

Our EnviTreat Laboratory performs state-of-the-art bench scale and custom pilot units (to simulate full scale reactors) for industrial/municipal waste streams to optimize treatment processes to remove or transform a variety of contaminants of emerging concern, including PFAS.



Moose Creek

EA inspected 190+ properties affected by PFOA/PFOS impacts to private drinking water wells and provided drinking water treatment system and alternate supply solutions. We are also conducting an expanded CERCLA site investigation to identify the presence or absence of PFOA/PFOS in Moose Creek and in the Chena Flood Channel areas.



National Presence. Local Connections.

● FEATURED PROJECT ● PROJECT LOCATION ● OFFICE LOCATION

Advancing the Science of Emerging Contaminants

Research and Development

For more than decade, our team has been actively engaged in rigorous applied scientific research related to the environmental fate, toxicity, and treatment of contaminants of emerging concern. EA's in-house subject matter expert working group includes specialists in toxicology, remediation, chemistry, quality systems, engineering design, forensics, and regulatory policy. As participants on the Interstate Technology and Regulatory Council's (ITRC) PFAS work group and the American Council of Engineering Companies Water Energy and Environment work group, our technical leaders know in advance of pending state or federal PFAS legislation, initiatives, or regulatory actions.

Mitigation Solutions

EA is also actively researching innovative and alternative treatment technologies for drinking water, groundwater, wastewater influent, spent treatment media, and soil. Technical performance and economic feasibility are evaluated for effectiveness and scalability. Based on our client's long-term liability risk tolerance thresholds, we integrate lessons-learned with the latest technology and innovations to design a site-specific remedial strategy that is cost-effective and regulatory compliant.

Off-Base Drinking Water Site Inspections

EA is performing time-sensitive response actions for residences and private properties adjacent to multiple Air Force installations where drinking water supplies are impacted by PFOA and PFOS, including design/install of residential point of entry treatment systems and 1,000 gpm municipal drinking water treatment systems, bottled water delivery, PFAS sampling and monitoring.



Investigation of Potential Risk to Threatened and Endangered Species from PFAS on DOD Sites

EA determined PFAS exposure potential to wildlife receptors using spatial analysis, developed a framework to prioritize wildlife receptors for PFAS risk concerns, and developed probabilistic PFAS exposure assessment models for avian and reptile taxa to provide the most realistic PFAS risk scenarios



A Proven Approach to Site Characterization

We have conducted investigation activities for PFAS at 100+ sites across 45 states. Our interactive planning and adaptive data-driven site characterization process ensures that data quality objectives are achieved through understanding of nature of PFAS.

Contact Us

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