



Aqueous Film  
Forming Foam (AFFF)  
Changeout Transition  
& On-site Treatment



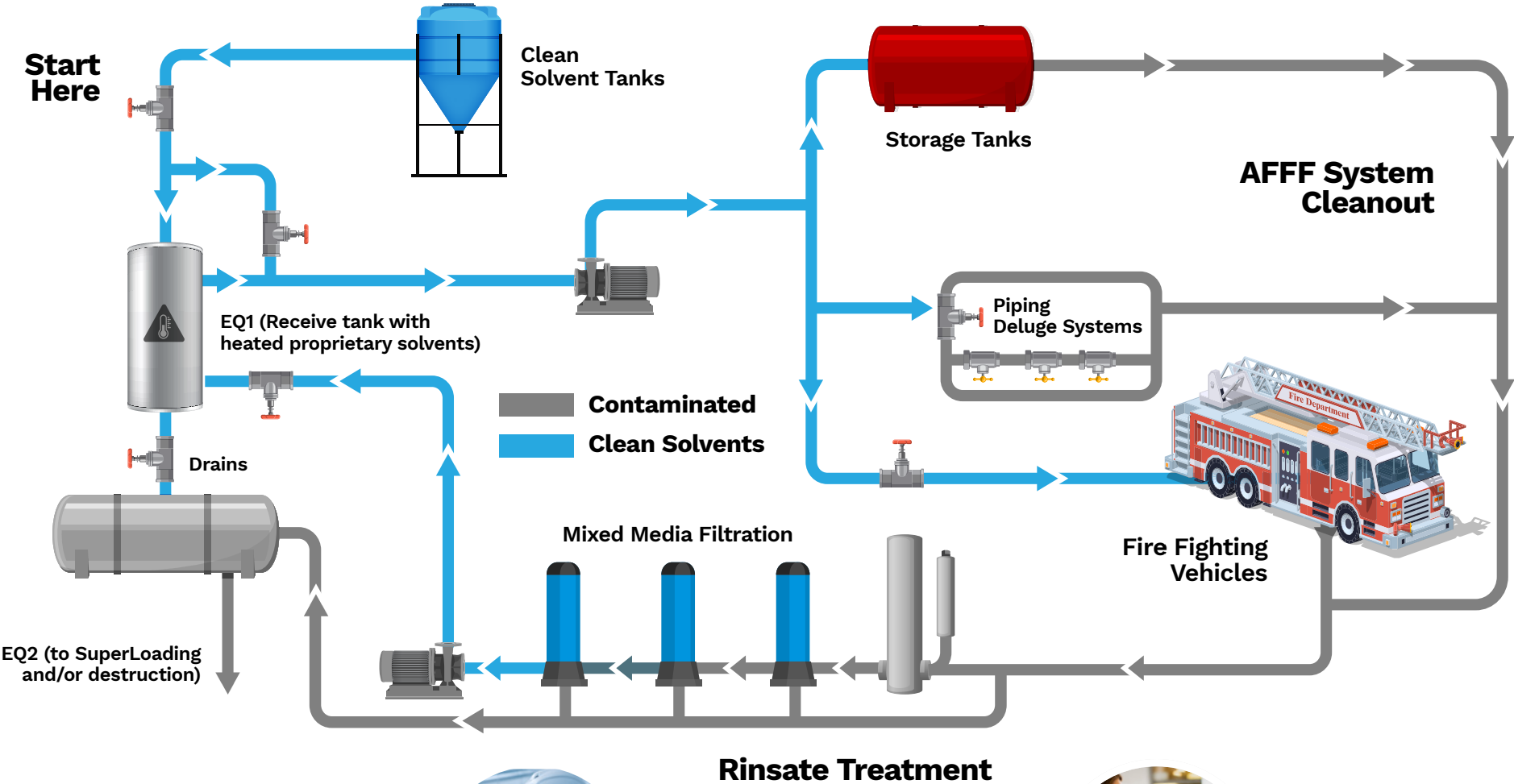
Our Approach

Montrose provides comprehensive lifecycle solutions for the replacement, treatment, and disposal of aqueous film forming foam (AFFF) systems for a diverse clientele including Department of Defense (DOD), government, and industrial sectors. Collaborating closely with our clients, we embark on a strategic partnership to determine the best approach that factors in cost-efficiency, regulatory compliance, and the future utilization of AFFF systems containing per- and polyfluoroalkyl substances (PFAS).

Our operations are rigorously managed and overseen through a combination of in-house expertise and accredited PFAS laboratories, ensuring meticulous control and monitoring at every stage. We are equipped to deliver cutting-edge onsite treatment technologies, including foam fractionation, granulated activated carbon, and ion exchange resin systems. These advanced technologies are geared towards effectively treating liquid waste, achieving non-detect levels and upholding the highest standards of environmental safety.



Providing Integrated AFFF Solutions



Services



Planning and Design

- Assessment of systems, identification of client objectives, and development of best value solution
- Cost benefit analysis
- Fire suppression system modification or redesign
- Workplace exposure, toxicology and management of future liability
- Project quality oversight
- Data management and validation
- Schedule management and minimization of fire suppression system downtime



Field Services

- Technical field services team with demonstrated AFFF experience
- Turnkey design and construction services for removal and replacement of legacy AFFF
- Draining and containerizing waste AFFF concentrate
- Decontamination and flushing of AFFF tanks, hydrants, and piping
- Containerization of rinsate
- Treatment of rinsate and discharging to storm or sanitary sewer
- Management, transportation, and disposal of liquids and solids as regulated waste



Accredited Laboratory Services

- In-house capabilities for quicker turnaround at a lower cost
- Accreditation to analyze for more than 75 PFAS compounds, including EPA/DOD Method 1633
- Experience with over 30,000 environmental samples processed
- Dedicated PFAS labs with state-of-the-art facilities



Water Treatment and Waste Minimization

- Removal of PFAS from water to less than 2 ppt (limit of detection)
- Global treatment network with over 45 sites, 4 billion gallons treated
- Proprietary vehicles and infrastructure cleaning chemistry
- Ability to concentrate waste at >1,000,000:1
- Sole provider of proprietary regenerative resin for PFAS treatment
- Extensive in-house expertise with surfactant chemistry & scale-up





## Our Experience and Know How

Our team has worked for years with airports, aircraft rescue and firefighting groups, DOD, industrial manufacturers, and associated industry to remediate their PFAS-impacted water challenges. Now, we bring our experience and knowledge to rinse, clean and transition your AFFF fire suppression systems to be fluorine-free.

Our team will evaluate your current systems, use our proprietary rinse solution to clean your pipes and systems, and treat the PFAS-impacted rinse water to non-detect levels. This treated water can be disposed of onsite, saving significant money on costly off-site transportation and waste disposal. The minimal solid waste that's generated can be taken off-site for disposal or destruction. Montrose can also support you with our environmental, safety and occupational health services with on-site monitoring and recordkeeping services.



**Scan to Learn More:**

## AvPURE

The term PFAS encompasses thousands of unique compounds with varying degrees of removal efficacy and efficiency. The most challenging group for separation are called precursors, or building blocks. These compounds transform in a water matrix, making them challenging to remove. They're often found in high concentrations in AFFF. Our AvPURE process is able to convert the precursor compounds to terminal species, allowing them to be separated from water and concentrated into a waste product. This industry leading technique is a cost effective and sustainable approach to treating PFAS-impacted water on site.

## Contact Us!



### **Rob Bogert, PE**

Turnkey Design  
& Field Services  
robogert@montrose-env.com  
(407) 247-6598



### **Steve Pepper, MS, CSP**

Replacement Products  
& Suppression System Readiness  
spepper@cteh.com  
(501) 271-6063



### **Patrick McKeown, PE**

Water Treatment  
Technology  
pmckeown@ect2.com  
(207) 318-7817