
PFAS Removal Solution

Filtration of highly-contaminated water sources



OVERVIEW

Advanced Mobile Filtration Services LLC (AMFS) provides a highly-efficient and effective solution for removal of per- and polyfluoroalkyl substances (PFAS) from a contaminated water sources that are derived from aqueous film forming foams (AFFF).

Relative to PFAS, the platform's nano filtration, 0.001um, extracts contaminants using low-pressure to obtain high-volume flow rates (175+ gpm) with no flocculant, coagulant or other chemicals required to prepare the waste stream prior to filtration. Depending on the type of fluids filtered, flow rates can vary.

The two-phase separation rejects > 0.001um particles from the water phase, resulting in a concentrated overflow discharge for disposal/handling and a potable water phase effluent that can be disposed of on location or re-used as needed.

The AMFS patent protected system is one of the most advanced in the world and – by all accounts – the most advanced mobile system in commercial use.

Unlike conventional spiral-wound filters, The AMFS system employs patented membrane separation technology. It is best suited for processing slop water, cross-flow filtration, dead-end filtration and dissolved-air flotation-rejection flows, where maximum fluid recovery is essential to minimize disposal costs.

The waste volume reduction membranes process liquid waste in a small-footprint configuration. The AMFS System treats fluids as high as 50% particle contaminated volume and assists in the maximum recovery of fluids, drastically reducing disposal volumes.

Because vibration keeps the membranes from fouling, flow rates are not as critical to the AMFS process. Its capacity to remove the smallest entrained solids, including virus and bacteria is reflected in routine delivery of comparatively clean permeate.

AMFS Results

Our recent Analytical Laboratory Field Trial results, as validated by SGS labs, reduced a sample contaminated with + – 1,000 ppt PFAS to levels 4 times lower than the current EPA's PFOA and PFOS Lifetime Drinking Water Health Advisory level of 70 ppt.

- The First Run results show a nine (9) times reduction in overall PFAS, or 120 – 170 ppt,
- Second Run results show a marked reduction in PFAS at 20 – 33 ppt.
- Third Run results removed nearly all the PFAS, or ND (non-detectable) – 18 ppt.
- These results were accomplished by using only one of the two filters within AMFS's mobile equipment.

AMFS

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Advanced Mobile Filtration Services (AMFS) provides on-site Filtration Services with our state-of-the-art mobile equipment anywhere in North America with access to a 53' tractor trailer. With our ability to filter up to 420,000 gallons per day of fluid with one of our units, big jobs can be tackled in shorter times without hauling vast amounts of contaminated fluid via tanker trucks to disposal sites, while reducing your carbon footprint and generating near-potable to potable water for re-use or disposal to ground, streams, lakes, rivers, aquifers or sanitary sewer systems.