

# PFAS Removal Solution – Landfill Leachate

## 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 contaminated water which are derived from aqueous film forming foams (AFFF) and other manufacturing sources.

**The AMFS system employs patented permanent membrane separation technology.** The platform's Nano and Reverse Osmosis permanent membrane filters are used when filtering per - and polyfluoroalkyl substances (PFAS) or (PFOA) from contaminated water sources. AMFS Nano and RO filtration membranes can filter > (0.001 $\mu$ m – 30 Daltons) using low-pressure to obtain high-volume flow rates (70 - 125+ gpm) per one AMFS unit. Unlike traditional spiral-wound filter systems, AMFS vibration technology keeps its permanent membranes from fouling, and can remove the smallest entrained solids. Depending on the type of fluids filtered, flow rates can vary.

The two-phase system separation rejects particle sizes from the feed water, resulting in a concentrated discharge for disposal/handling and a potable water effluent that can be re-used as needed or disposed of on location to a municipal wastewater treatment plant.

**AMFS is an eco-friendly company.** Its process does not use any additional chemicals or flocculants. AMFS permanent filter membranes are reusable. Standard mobile filtration systems typically use carbon media filters that are disposed of in landfills or incinerated causing additional environmental issues. The system generates near-potable to potable water for re-use or disposal to sanitary sewer systems. Major projects can be accomplished in shorter times without hauling vast amounts of contaminated fluid via tanker trucks or rail cars to disposal sites. Less truck and rail car traffic further mitigates the risk of accidents on America's highways and rail systems and lessens our carbon footprint.

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.

AMFS has filtered oily water, bilge water, Arsenic, Selenium, Ammonia, Bromide, Groundwater Remediation, Fuel Tank Storage, Landfill Leachate, and Viruses. AMFS filtration system can also create potable water from contaminated waters.

### AMFS per - and polyfluoroalkyl substances third party Results – July 15, 2024

Recent project results analyzed by TEKLAB, INC. (EPA certified laboratory) indicated that PFAS and derivatives were drastically reduced to ND or near ND.

*Near ND results listed as follows:*

Contaminant	Feed (PPT)	RO Permeate (PPT)	RO Concentrate (PPT)	RO % Reduction
PFOA	1,900	8.33	4,620	99.6%
PFOS	279	ND 1.40	622	≥97.2% RL=7.68
PFHxS	550	ND 2.75	1,290	≥98.6% RL=7.68
PFNA	97.6	ND 0.49	243	≥92.1% RL=7.68
GENX	375	ND 1.88	2,270	≥98.0% RL=7.68

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