

A CASE STUDY: FIREFIGHTING FOAM

The Problem with AFFF

The use of aqueous film-forming foam (AFFF) has caused growing concerns related to its impact on water and ecological resources, due to PFAS pollution. **AFFF contains very high PFAS concentrations**, and rising litigation against AFFF manufacturers and users is driving an urgent need for technologies to permanently and cost-effectively treat AFFF waste.

Table 1: Results obtained from the treatment of AFFF wastewater from a military site resulted in over 99% destruction of all PFAS compounds, including fluorotelomers and precursors (C8-C15), in two hours.



PFAS Compound	Initial Concentration	Final Concentration	Percent Destroyed
6:2 FtAoS	~3000 ppb	N/D	>99.9%
6:2 FTS	592 ppb	2.5 ppb	99.6%
PFBA	195.7 ppb	2.3 ppb	>99.9%
PFPeA	78 ppb	0.6 ppb	99.2%
PFHxA	98.9 ppb	2.9 ppb	97.1%

A CASE STUDY: DESTRUCTION OF INDUSTRIAL PFAS CONCENTRATE

Helping Industries manage the PFAS in their wastewater is a first step in reducing the PFAS that get into rivers, watersheds and the environment.

Table 2: Results obtained from industrial PFAS Concentrate produced by ion exchange resins. Result show >99% destruction of the identified PFAS compounds.

PFAS Compound	Initial Concentration	Final Concentration	Percent Destroyed
TFA	18.7 ppb	0.01 ppm	>99.9%
TFPrA	12.1 ppb	0.08 ppm	99.3%
PFBA	72.9 ppb	0.04 ppm	99.95%
PFBS	1.1 ppb	<0.0002 ppm	>99.99%
PFPeA	4.3 ppb	0.0008 ppm	99.98%
HFPO-DA	1.3 ppb	<0.0002 ppm	>99.99%

Let's Work Together

Contact us and we would be excited to test and demonstrate our technology with your wastewater or PFAS concentrate at no cost. All we need is 5 Liters or less of your media, and you will receive a detailed and confidential scientific report of the test.



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