Mesofluidic Inline Separation for Produced Water Treatment

CRADA 537 (PNNL 77883)

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Abstract

The mesofluidic inline separation developed by PNNL represents an opportunity to remove a key barrier in the treatment of produced water: suspended solids that clog downstream operations to remove dissolved solids. The US alone produces over a trillion gallons of produced water each year, most of which is reinjected as a waste product. The impact from treating and reusing even a fraction of this water is immense as aquifers in the Midwest and elsewhere are drying.