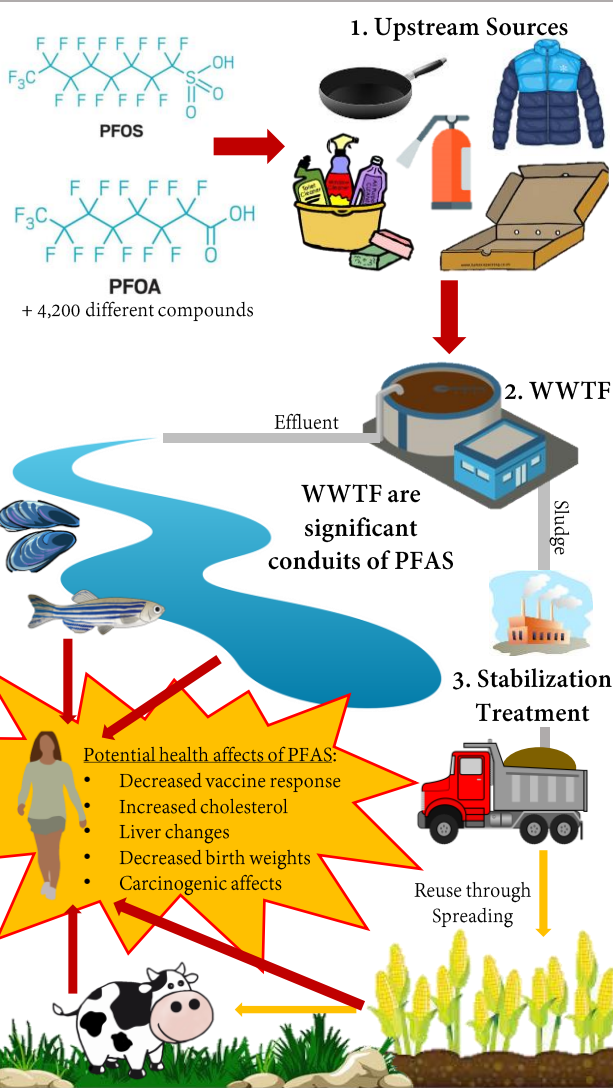
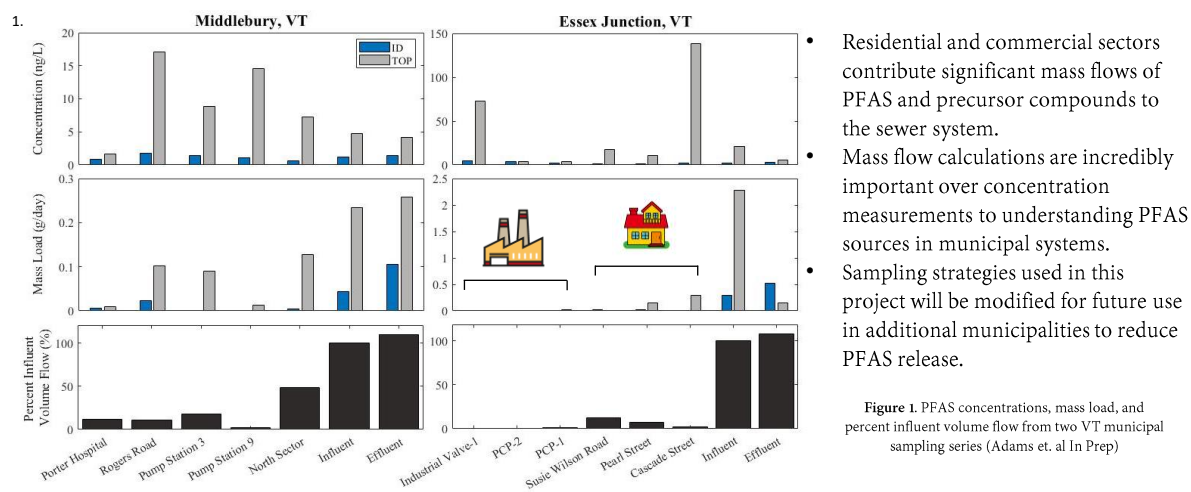




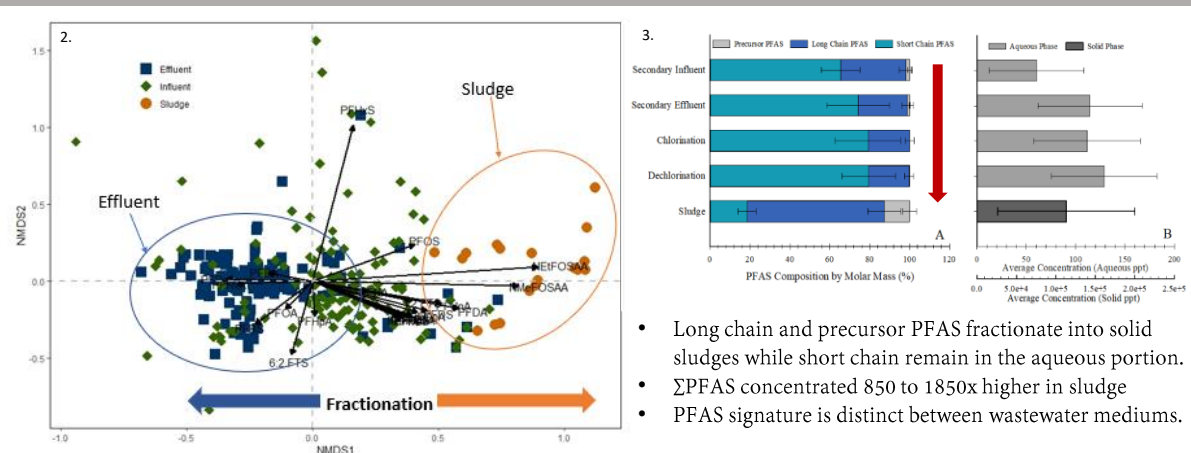
## What are PFAS and why do we care?



## 1. Upstream (Before Wastewater Treatment): Municipal PFAS Source Assessment



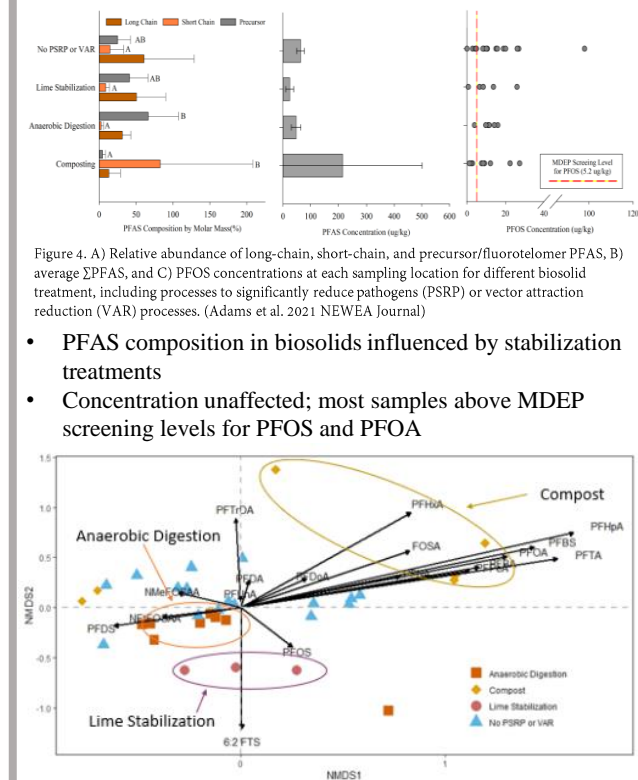
## 2. Wastewater Treatment: Understanding PFAS Sequestration Behavior



**Figure 2.** Non-multidimensional scaling of influent PFAS measurements for 18 Vermont WWTFs (AOSIM, Figure S1,  $p < 0.001$ ,  $R = 0.3234$ ; Pairwise ADONIS, INF & EFF  $p < 0.001$ , INF & Sludge  $p < 0.001$ , EFF & Sludge  $p < 0.001$ ). (Adams et al. In Prep)

**Figure 3.** A) Relative abundance (percentage of total molar mass) of short chain, long-chain, and precursor PFAS through the wastewater treatment process, and B) total PFAS for aqueous and sludge samples. Bars and whiskers represent average and standard deviation for four WWTFs. (Adams et al. 2021 NEWEA Journal)

## 3. Biosolids Processing



**Figure 4.** A) Relative abundance of long-chain, short-chain, and precursor/fluorotelomer PFAS, B) average  $\Sigma$ PFAS, and C) PFOS concentrations at each sampling location for different biosolid treatment, including processes to significantly reduce pathogens (PSRP) or vector attraction reduction (VAR) processes. (Adams et al. 2021 NEWEA Journal)

## Works Cited and Acknowledgments

ASTDR. (2018). *Toxicological Profile for Perfluoroalkyls*, Draft for Public Comment. 852.

