

Water Chemistry Impact on Pipe Corrosion, Antibiotic Resistant Microbes and Lead in Drinking Water



Fig. 1: Corrosion within drinking water pipe

Achievements to Date:

- Determined impact of microbes on copper and lead corrosion products and antibiotic resistant microbes in water
- Demonstrated that different source waters impact corrosion products and antibiotic resistance differently
- Analyzing water microbes using metagenomic sequencing

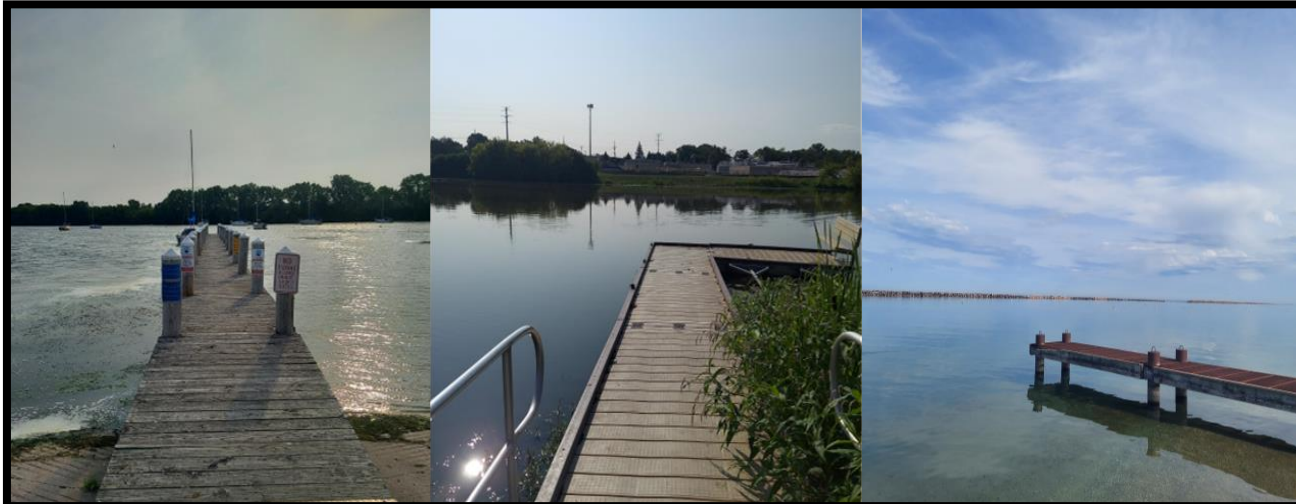


Fig. 2 : Source water sampling locations included Lake Winnebago (left), Fox River (middle), and Lake Michigan (right)

Looking Ahead:

- We will determine how corrosion products impact the microbial community/pathogens
- We will determine the impact of disinfectants and corrosion inhibitors on pipe corrosion, water microbes and lead concentration

Corrosion and Antibiotic Resistance

