



### Description

This project will investigate the path of silver nanoparticles through a water treatment process. By adding small, known, amounts of silver nanoparticles, the interaction with each treatment step will be analysed in order to understand how this step affects the nanoparticles, for example causing them to sediment. Different types of silver nanoparticles will be used in order to gain understanding on the link between material properties of the particles and their interactions with the treatment plant.

### Goal

To obtain an understanding of how silver nanoparticles behave in a wastewater treatment plant, and how the properties of the particles themselves influence the interaction with different filtration techniques.

### Expected benefit

Improved risk assessment for dispersion of silver nanoparticles to the environment. Better knowledge of how filtration techniques are capable of dealing with nanoparticles, which is important for design of future filtration treatment processes.

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