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## Package Plant Operations Webinar Description

Package Plants account for more than half of all NPDES permitted facilities in Ohio; however their frequency of noncompliance is much worse than municipal and industrial facilities. Package plants are often underfunded and neglected making the task of the certified operator even more difficult. Typically working as the only operator at the facility, operators need help in improving process control and operational troubleshooting.

Package plants can be a nightmare to run, but it does not have to be this way. One of the biggest problems that operators face is wasting. Through the certification process we learn many ways to waste, often so many that we become paralyzed with indecision. The key to wasting is being consistent and finding the right mixed liquor concentration. We will explore the best tests to determine the wasting rate: the MLSS, the 5 & 30 minute settleabilities, respirometry, and microscopic analysis. Besides wasting, we will look at additional reasons for solids loss problems, including poor equalization. Foaming & bulking, usually caused by filamentous bacteria, are common at plants and often times ignored until it is too late. Although chlorinating or adding polymer will help weather the storm of a filamentous attack, it will not prevent them from coming back. We will show how to keep the filaments away forever. Operators will also learn how to fix ammonia removal problems whether by installing fine pore diffusers, adding alkalinity or covering the plant in the winter. Package plants can be a dream to run if you take control and take out the guesswork.