

Process Control Technical Assistance for Small Mechanical WWTPs

A four-part video series focused on improving CWA-NPDES permit compliance at Small Mechanical Wastewater Treatment Systems

Video Links:

- [Part 1: Introduction](https://www.youtube.com/watch?v=g2dA4RHYNWc) - provides an introduction and overview of the training material. (https://www.youtube.com/watch?v=g2dA4RHYNWc)
- [Part 2: Wastewater Treatment Plant Walkthrough](https://www.youtube.com/watch?v=1QSSyDsw2WA) - provides background and an overview of WWTP process units such as the equalization basin, aeration tank, clarifier, and more. (https://www.youtube.com/watch?v=1QSSyDsw2WA)
- [Part 3: Tools and Equipment](https://www.youtube.com/watch?v=XveEG4Pn8kg) - focuses on the tools and equipment used to diagnose and troubleshoot WWTP operation issues. (https://www.youtube.com/watch?v=XveEG4Pn8kg)
- [Part 4: Troubleshooting](https://www.youtube.com/watch?v=Gu0NsfthhdQ) - focuses on sampling, measurement, and analysis techniques that can be used to troubleshoot WWTP issues. (https://www.youtube.com/watch?v=Gu0NsfthhdQ)

How is this video series useful?

The four videos above demonstrate the use of process control tools to help small wastewater treatment systems either return to compliance or maintain compliance. Jon VanDommelen from Ohio EPA walks through each treatment unit, identifies tools and equipment that can help operators diagnose operational problems, and then demonstrates how to use the tools in a troubleshooting exercise. These technical assistance videos were developed to support small mechanical WWTP operators across the country and are part of [EPA's Significant-Noncompliance \(SNC\) National Compliance Initiative \(NCI\)](https://www.epa.gov/enforcement/national-compliance-initiative-reducing-significant-non-compliance-national-pollutant) — see, <https://www.epa.gov/enforcement/national-compliance-initiative-reducing-significant-non-compliance-national-pollutant> — which strives to improve surface water quality by assuring that all NPDES permittees are complying with their permits.

Who should watch?

This video series is geared toward plant owners and operators of smaller systems with flow of less than 1 million gallons per day. Others include: WWTP owners and operators, design engineers, municipal leaders, NPDES technical assistance providers, permit writers, compliance staff from state, local, tribal, and federal governments.

About the Presenter:



Jon VanDommelen has worked for the Ohio EPA for over 25 years. He works in the Compliance Assistance Unit troubleshooting noncompliance at wastewater treatment plants ranging from 1500 gallon per day package plants up to 15 million gallon per day municipal systems. In addition, Jon has trained operators of WWTPs in process control of activated sludge, microbiology, biological nutrient removal, among other topics related to wastewater treatment.