

Findings of UV Disinfection Knowledgebase for Reuse Applications

Abstract: Many installed UV systems operate inefficiently over time, which increases operation and maintenance (O&M) costs and can lead to indicator microbe concentrations exceeding required levels. A WateReuse Research Foundation project titled “UV Disinfection Knowledgebase for Reuse Applications” is evaluating these issues. The objectives of this project were to benchmark the performance of UV systems used in reuse applications, develop recommendations for UV implementation for non- and direct potable reuse, and develop troubleshooting tools that utilities can use to quantify and optimize UV system operation. Lessons learned from conversations with operators along with data collected during the UV system performance audits provides good recommendations for better UV implementation.

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Professional Background: Traci Brooks has worked in the UV group at Carollo Engineers for the past 5 years. She has conducted validation testing on more than fifteen UV reactors at Carollo's Portland UV Reactor Validation Facility and assisted in the startup of several UV systems.