

**East Bay Municipal Utility District
Walnut Creek Water Treatment Plant
Orinda, California**

I. Respondent:

Jim Smith, Superintendent of Water Treatment

II. Treatment Plant Characteristics:

- In-line Water Treatment
- 1,300,000 people served
- 1,750 employees

III. Innovation:

A. Description

The East Bay Municipal Utility District (EBMUD) is coordinating with the Water Research Foundation to pilot test a low voltage (120v) high efficiency (reflecting over 99 percent of the 254 nm generated) ultraviolet water (UV) disinfection system. The test will occur in late September and early October 2014 at the Walnut Creek Water Treatment Plant's backwash reclaim system.

B. Type of Innovations

- New treatment process

C. Motivation for Innovations

Reduction in power usage and cost to operate a UV system

D. Barriers/Challenges

Plumbing in the pilot UV unit into the plant's wash-water reclaim system and how to ensure any organism's use in the test are not reclaimed to the head of the plant.

E. Effect on Staff Training

Staff will have a better understanding of how UV disinfection systems operate.

IV. Information Sharing:

- Willing to host on-site tour
- Willing to visit another regional water/wastewater facility to provide presentation on innovation
- Willing for staff member from other utility to conduct a follow-up visit to learn more about innovations
- Interested in on-line forum to discuss water/recycling/wastewater treatment issues

Contact: Jim Smith