

San Jose Water Company

Distribution Facility

Los Gatos, California

I. Presenter:

Adam Feffer - Manager of Water Quality

II. Treatment Plant Characteristics:

- Water Distribution Facility – 7-mile Automated Residual Boosting System
- ~365 employees
- 1 million+ customers served

III. Innovation:

A. Description

Using this system strategically to impact multiple pressure zones and creating chemlocker systems for manual disinfectant adjustment in the field.

B. Type of Innovations

- Using existing technologies in new venues to overcome common challenges to distribution system water quality

C. Motivation for Innovations

We had poor residuals, coliform positive results from mutual that purchase our water in the mountains.

D. Barriers/Challenges

Ways to make the system scalable and robust.

E. Benefits

Stable residual across pressure zones in this area of the system.

F. Effect on Staff Training

- More training in chemical systems
- More SOPs
- More safety training

G. Lessons Learned:

Dual analyzer redundancy is critical. Zone hydraulics play a big role and have a big impact on the reach of your boosting.