

# **City of Manteca**

## **Water Quality Control Facility**

### **Manteca, California**

#### **I. Respondent:**

Dustin Valiquette, Chief Plant Operator

#### **II. Presenters:**

- Dustin Valiquette
- Gregory Harris, Partner, HERWIT Engineering

#### **III. Treatment Plant Characteristics:**

- Wastewater Treatment, Tertiary Filtration, UV Disinfection
- 30 employees
- 83,000 customers served

#### **IV. Innovation:**

##### **A. Description**

Constructing new anaerobic digesters, a fats, oil, and grease (FOG) receiving facility, and food waste receiving facility. City to receive FOG from local collection companies and food waste from a City processing facility at the Lovelace transfer station. City collects the source separated food waste from commercial

facilities and restaurants. City to be one of the first to comply with AB 1826 and SB 1383 for organics diversion from the landfill.

Constructing new facility to convert the biogas from the wastewater solids and organic wastes and convert it to transportation quality methane to power the City garbage fleet and the water and wastewater heavy trucks.

## **B. Type of Innovations**

- New Treatment Process
- Inter-Agency Agreements or Other Administration Changes
- Optimization of Existing Resources

## **C. Motivation for Innovations**

Biosolids and Biogas master plan identified pending state regulations for dealing with organic waste such as FOG and food waste. Plan identified an integrated approach between the needs of Solid Waste Department and Wastewater Department was the most cost-effective method of compliance and created the best resources recovery options and benefits.

## **D. Barriers/Challenges**

Working out how the different departments will work together. Identifying funding sources for the program and reimbursements between departments.

## **E. Benefits**

City will make transportation fuel sufficient to power the entire City solid waste collection fleet. City will receive renewable Energy credits for production of the fuel.

City has received over \$5 million in state grants for the project.

## **F. Effect on Staff Training**

Staff is currently training on the new facilities

## **V. Lessons Learned**

Still in construction, so still learning

## **VI. DROUGHT-RESPONSE**

Water conservation measures were put in place for residential irrigation and potable water was no longer allowed for construction purposes. Construction was to use Recycled water only. Rebates were given to residents putting in drought tolerant landscaping and low flow appliances.