

PROJECT EXPERIENCE

CLIENT

Foster Farms

LOCATION

Livingston, California

APPLICATION

Poultry Wastewater

CAPACITY

5.7 MGD

YEAR COMMISSIONED

2017



Foster Farms is a leading west coast poultry processing company. The company's vertically integrated operations encompass the entire process of hatching, growing, and processing poultry products. Wastewater at its Livingston, CA facility is generally characterized as being high in Fats, Oils and Grease (FOG), Ammonia, and Biological Oxygen Demand (BOD) with large daily swings in flow and concentration. The wastewater is treated with rotary screens, Equalization, Dissolved Air Flootation, followed by a large Biological Nitrogen Removal (BNR) process for BOD and Nitrogen removal.

This purpose of this project was to retrofit the existing system to add a 1.5 Million Gallon Equalization Basin to allow for more consistent downstream treatment. This required the addition of various process equipment, Instrumentation, Controls, and Integration all of which were provided by TPS:

- Supply and Integration of a 1,900 GPM, 60 HP Gorman Rupp Sump Pump
- Supply and Integration of (3) 150 HP, 2,000 SCFM Blowers with PID control for Dissolved Oxygen control
- Supply and Integration of (3) 75 HP Floating Aerators installed inside the new EQ basin for D.O. and Odor Control
- Various online process instruments: D.O., TSS, pH, Level, Temperature
- Process Integration and Automation System with ControlLogix PLC and Wonderware HMI

