

Egg Processing Wastewater Treatment System

20 m³/hr (88 usgpm) capacity



ALPHA 20 DAF



3D Rendering of Burnbrae WWT Room

Case Study Details

Burnbrae Farms is a fifth-generation family owned and operated company that continues to lead the Canadian egg farming market. They required a pre-treatment system to reduce the loadings of processing wastewater to the city sewer system.

H2Flow worked closely with Burnbrae to provide equipment to fit into an existing area and help meet strict effluent criteria, and maintain a low impact on the environment.

Dissolved Air Flotation (DAF) is the main process for this wastewater plant. Combined with chemical treatment the DAF System greatly reduced their effluent contaminant levels to comply with the city's regulations.

H2Flow provided the complete supply and install of the wastewater treatment plant including a Rotary Screen; Alpha 20 DAF with feed pumps, chemical mixing tanks; a sludge pump; a Chemical Feed System complete with pH control; and an operator-friendly PLC control panel.

A clay-based stabilization flocculant was supplied by CETCO Energy Services.

The DAF system produced significant reductions in Biological Oxygen Demand (BOD) as well as Fats, Oils and Greases (FOGs), while maintaining a neutral pH level.

Start-Up & Installation was provided by H2Flow Equipment Inc. in November 2018.