

Wastewater Treatment

DAF System



H2Flow DAF ALPHA20 Unit

Case Study Details

H2Flow was retained by OCWA (the consultant/operator) on behalf of the Belwood Poultry, who required a pre-treatment system to reduce the loadings of its processing plant. H2Flow provided a Dissolved Air Flotation (DAF) unit to meet their treatment needs and protect downstream membrane equipment.

Wastewater from the plant was screened by an existing, internally-fed rotary screen. The screened water flows then traversed to an existing equalization tank, where it was mixed and homogenized; then pumped to the DAF system provided by H2Flow. Based on a design flow rate of 17 m³/hour, a DAF unit with hydraulic capacity of 20 m³/hour was provided to meet its maximum flow requirements. The system also included a pipe flocculator (of 20 m³/hour nominal capacity), a pH control system, dry polymer makedown and dosing system, coagulant metering pump, as well as an electric control panel.

The DAF system produced significant reductions (of 90-95%) in TSS as well as Fats, Oils and Greases (FOGs). The project was delivered on schedule, meeting the needs of the client.

Consultant: OCWA

Client: Belwood Poultry Ltd.

Start-Up: November 2017