

Wastewater Treatment DAF System



Case Study Details

PARAMETER	UNIT	VALUE
Design Flow	gpd (m ³ /day)	43,000 (1635)
Maxium Flow	gpm (m ³ /hour)	68 (15)
Average TSS	mg/L	300-400
Average FOG	mg/L	200-400
pH	--	5-8
Temperature	°C	18 (Winter); 35 (Summer)

Bakkavor Foods required a pre-treatment system to reduce the loadings of its processing plant. H2Flow was acquired to provide a Dissolved Air Flotation (DAF) system to meet their treatment needs. With the parameters provided by the client as the basis of design (summarized above), a full treatment package was installed in January 2019, which included screen feed pumps, an internally-fed rotary screen, a transfer tank with equalization (EQ) feed pumps, EQ tank with mixing, DAF feed pumps, a pipe flocculator and DAF unit (both of 15 m³/hour nominal capacity), sludge pump and tank, air compressor, chemical dosing equipment, as well as PLC controls.

Bakkavor trusted H2Flow to supply a wastewater system within a very tight layout (less than 92 m² (1,000 sq. ft.)). H2Flow was able to deliver and execute the project within the necessary time frame, and has achieved the client's goals. Bakkavor has contracted further with H2Flow for a Maintenance and Service Agreement, to ensure the operators and staff will be fully trained and the system monitored at any time.

Client: Bakkavor Foods
Start-Up: July 2019