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Wastewater Treatment in a Food Company - DAF Case Study

Chippindale Foods is an innovative food company and leading supplier of free range eggs to UK retailers and food service companies. When looking to upgrade their wastewater treatment plant, they engaged with ACWA Services to provide a complete solution including a HUBER DAF unit.

Background

Wastewater produced from within the packing plant is screened and balanced before passing through both DAF (Dissolved Air Flotation) and MBR (Membrane Bio Reactor) processes to enable treated wastewater to be discharged from site. The DAF provides high removal rates of FOG, TSS and associated COD, reducing the loading to the biological (MBR) system. The contaminant reduction achieved by the DAF enables the MBR sizing to be as compact as possible and reduces footprint on site. The DAF also ensures that any spikes in loading due to wash downs or product spills aren't passed onto the biological plant. This is important as it allows the MBR designer to consider a lower constant loading compared to the average achieved simply by blending the flow.

Solution

As one of the largest stainless steel plants in Europe, HUBER were well placed to provide a high specification unit capable of dealing





with the wastewater.

The new DAF installation with HUBER Dissolved Air Flotation Plant HDF includes coagulation with PAC, pH correction with caustic and flocculation with a dilute polymer made up by a batching system.

The chemicals are injected and mixed in a pipe flocculator, which prepares the wastewater for separation before entering the DAF unit. Dosing is fully automated and contained within the pipe flocculator, so there are no odours normally associated with open tanks at treatment works. The HUBER Dissolved Air Flotation Plant HDF is also fully enclosed with covers over the top of the machine and optional odour extraction point.

Separated solids are floated to the top of the machine and removed by an automated mechanical scraper system, which moves the sludge into a sludge hopper for forward pumping to the site's sludge storage tank.

HUBER provided the full equipment scope to site, including:

- **HUBER Dissolved Air Flotation Plant HDF size 0.5** unit in stainless steel grade 304
- **Pipe flocculator** to mix wastewater and chemicals within an enclosed, small footprint
- **Pre-programmed control panel** to automate operation of the plant

For more information please contact +44 1249765000 or email Richard.Willishuber.couk

Related Products:

- [HUBER Dissolved Air Flotation Plant HDF](#)

HUBER CS spol. s r.o.

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