

MEADOW FOODS

Project 1

Meadow Foods operated an old effluent treatment plant to process all trade effluent for discharge into an adjacent watercourse. The site was undergoing a significant expansion and there were significant issues operating the existing DAF / activated sludge plant.

CLIENT: MEADOW FOODS LTD
LOCATION: CHESTER
PROJECT VALUE: CONFIDENTIAL
DURATION: 1 YEAR
SERVICES PROVIDED: DESIGN, M&E WORKS AND CIVILS



FLI CAP Technology Role:

CAP Technology undertook the project on a full turnkey basis including all aspects of the design, M&E scope of supply, installation and commissioning. This included all civil works.

The plant was designed to process up to 2,000 m³/day, with a maximum COD load of 5,100 kg/day. The guaranteed treated effluent quality was 5 mg/l BOD, 15 mg/l TSS & 2 mg/l NH₄⁺.

The new plant had to be constructed on the site of the existing ETP whilst receiving flows of 1,000 m³/day. This involved careful planning and liaison with the site operations.

The plant provided by CAP included raw effluent pumping facilities with raw effluent monitoring with divert capability. The raw effluent was balanced in a 2,000 m³ aerated balance tank before being fed to a DAF clarification system. The clarified effluent was then processed through a MBR plant using Alfa-Laval submerged type membranes.

The completed plant was completed ahead of schedule, on budget, fully meeting the agreed performance targets with no incidents of ETP failure during the construction period.