

Location
Llangefni,
Anglesey,
England

Application
Primary effluent
treatment after
balancing

Equipment
MNC

Year
2007



Case history brief:

Location: Llangefni, Anglesey, England
Application: Primary effluent treatment after balancing
Capacity: 45 m³/hr
Clarification: phosphates and COD removal
Chemicals: Aluminium chloride and flocculant
Installation: 2007

Case history features:

Effluent from customer's sump is pumped over rotary screen installed by KWI UK Ltd and into existing aerated balancing tank. From here it is pumped to constant flow headbox integral with MNC skid and gravity fed to DAF.

Clarified water is discharged directly to sewer with the option to return to balance tank if out of specification. DAF sludge discharges into small transfer tank and from here is pumped on level control to a 25m³ decant tank where further thickening takes place.

Clarification results:

- 90% removal of suspended solids;
- 60% reduction in COD;
- Phosphate levels reduced from 20 –30 mg// to consent of below 5 mg/l.



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