

Tertiary Treatment



Client: Anglian Water
Location: Earls Colne, Essex
Commissioned: 2004
Purpose: Ammonia and solids removal
Effluent Type: Sewage



Scope of Work: ARM Ltd designed and constructed a vertical flow reed bed treatment system to provide tertiary treatment of sewage specifically to remove ammonia and solids.



Design Parameters:

Average Flow 1168m³/d

Consent Requirements

BOD 20 mg/l
SS 40 mg/l
NH₄N 10 mg/l

Pre Treatment
Biological Filters

Design Solution:

Bed Type 2 Vertical Flow beds

Bed Size 1600 m²

Plant Species *Phragmites australis*

Bed Matrix Gravel

