

# Tertiary Treatment



**Client:** Thames Water  
**Location:** Berkhamsted, Hertfordshire  
**Commissioned:** 2008  
**Purpose:** Foam and ammonia removal  
**Effluent Type:** Sewage



**Scope of Work:** ARM Ltd designed and installed a 16,000m<sup>2</sup> horizontal flow reed bed treatment system to provide tertiary treatment of sewage to remove foam and ammonia.



## Design Parameters:

Average Flow 10,000m<sup>3</sup>/d

### Consent Requirements

BOD: 10 mg/l

SS: 15 mg/l

### Pre-treatment

PST; Biological Filter & Humus Tank

## Design Solutions:

Bed Type 10 Horizontal Flow beds

Bed Size 1600 m<sup>2</sup>

Total surface area 16000m<sup>2</sup>

Plant Species *Phragmites australis*

Bed Matrix Gravel

