

LITTLE MARLOW WWTW – Buckinghamshire, UK

Client: Thames Water Utilities Ltd

Value: £15million



Description:

Set in a picturesque part of Buckinghamshire, south of High Wycombe, and numbering some famous residents in the nearby village, Little Marlow is seen as a key project for Thames Water. As part of an Alliance team with Thames Water Utilities Ltd, Interserve Projects Ltd and Halcrow Group, Earth Tech have been contracted to provide specialist engineering services for the Alliance. The total contract value for the Design and Build is targeted at \$29million (£15million).

Scope of work

- The de-commissioning of the High Wycombe Works and the transfer of the sewage flows via a tunnel constructed under a separate contract, to Little Marlow
- The construction of a new Works serving a PE of 178,000 persons, utilising advanced technology for biological nutrient removal, on the site of the existing Little Marlow Works and comprising of:
 - coarse screening.
 - grit removal and washing.
 - primary settlement.
 - biological nutrient removal. (West Bank configuration)
 - final settlement.
 - tertiary sand filtration.
 - sludge dewatering and composting.
 - associated works.
- Return of compensation water via a pumping main set in the sewage transfer tunnel, to the river Wye at High Wycombe.

The project is executed under a single project Alliancing Agreement with Thames Water and was won by the integrated team against stiff competition.

Earth Tech's major involvement as lead process designer, involves the design and specification of the BNR plant (Biological Nutrient Removal) and the relevant specialist engineering that goes with the BNR ICA and Odour control systems associated with this technology.