



Project: Greylake

Location: Somerset

Tilting Weirs

Client: Environment Agency, South West Region



As part of a continuing programme of water level structure improvements in Somerset, ACE have recently been heavily involved in the design and manufacture of two large tilting weirs for the Greylake structure improvements.

The South West region of the Environment Agency are currently carrying out a number of water-level improvements on the King Sedgemoor Drain, to the east of Bridgwater. Originally, the drain was controlled using two large vertical lift gates at Greylake, however as these reached the end of their design life, ACE were approached to produce new tilting weirs for the scheme.



The KWT tilting weir is a fairly unique concept which incorporates a weir plate which can be moved from vertical to horizontal via two quadrant shaped rack and pinion drives. They can be manufactured in a range of sizes and types, and can be made suitable for land drainage and flood alleviation purposes.

Following ACE's success with previous projects for the Agency in the area, the design contractor, WS Atkins, worked with KWT group, ACE's manufacturer in the Netherlands, on a high specification, bespoke design, based around ACE's popular tilting weir range. The benefit of using this type of weir is that the water level can be constantly regulated, and the visual impact on the horizon is greatly reduced due to low build height of the structures.



Earlier in 2005 ACE installed a smaller tilting weir on the bypass channel, to allow the water levels to be maintained during the works. ACE then carried out the installation of the two main structures in the autumn of 2005 and would like to thank May Gurney (the main contractor for the works), as well as WS Atkins and the Environment Agency for their assistance during the project.

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