

Project: Somerset Levels Sluice Refurbishments

Location: Somerset



Varied Products

Client: Environment Agency



In 2004, ACE were contacted by WS Atkins with an enquiry regarding the use of tilting weirs, for a project at Oath in Somerset. Following our first meeting, which incorporated a visit to an ACE tilting weir installed at Newbury, we worked closely with WS Atkins, May Gurney and the Environment Agency, assisting with the design of a new tilting weir structure (approx. 4.3m wide by 1.4m high), to act as a bypass to two large vertical sluices.

As part of the pre-release inspection, various representatives from WS Atkins and May Gurney attended a visit to the KWT Factory in the Netherlands, to observe the testing of the tilting weir. During our discussions at the inspection, we were invited to take part in a joint-venture design and build project with WS Atkins for the Greylake sluices, between Glastonbury and Bridgwater, as well as some further structures at Oath Lock.

The original Greylake sluices were two very large vertical sluices with concrete counterweights, which required replacement as they had reached the end of their design life. WS Atkins worked very closely with the designers at KWT to produce a pair of bespoke tilting weirs of 4m wide by 3m high, being the largest tilting weirs supplied to date. These were installed in the summer of 2005, and now fully control the water levels on the King Sedgemoor Drain. Part of this scheme also incorporated a third KWT tilting weir, used as a temporary bypass during the construction works.

Aquatic Control Engineering Ltd

www.aquaticcontrol.co.uk
info@aquaticcontrol.co.uk
01777 249 080
V 2.0.

Aquatic Control Engineering are market leaders of innovative water flow control, maintenance and fish passage equipment. We are proud to supply our customers with high quality, innovative solutions and high standard installation services for over 20 years

Project: Somerset Levels Sluice Refurbishments

Location: Somerset



Varied Products

Client: Environment Agency



We were also invited to manufacture a custom-designed adjustable Larinier Type fish pass, which incorporated a modified KOS-GL weir penstock fitted with a 7m long fish pass by 1m wide, as well as two fully stainless steel isolation penstocks to isolate the fish pass channel.

Following on from works on the above projects, ACE were invited to carry out a number of other refurbishment and sluice replacement projects in the Somerset Area, both directly for the Environment Agency and also for May Gurney, namely the King Sedgemoor Sluice project, Flexbury FDS and an outfall at Creech St. Michael. These projects involved the installation of a wide variety of equipment including Double Leaf Weir Penstocks, Tilting Weirs, Penstocks, Flapvalves and Stoplogs. Some of the equipment also included bespoke elver passes with brush substrate to assist elver migration.

We would like to thank all parties, which include The Environment Agency, WS Atkins, May Gurney and Black and Veatch Consulting, for their assistance during the projects.

Aquatic Control Engineering Ltd

www.aquaticcontrol.co.uk
info@aquaticcontrol.co.uk
01777 249 080
V 2.0.

Aquatic Control Engineering are market leaders of innovative water flow control, maintenance and fish passage equipment. We are proud to supply our customers with high quality, innovative solutions and high standard installation services for over 20 years