



### **ACE flaps protect Attenborough on River Erewash Diversion**

Jackson Civil Engineering is currently carrying out major works on the River Erewash, at Attenborough near Nottingham, to divert the river through existing lakes into the River Trent. The works incorporate the construction of a number of new embankments and barge channel works for the client Cemex, to protect the area from flooding and improve the water quality within the nature reserve.

The works are adjacent to the Attenborough nature reserve near Long Eaton, so consideration of environmental issues was at the forefront of the design and build contract from the start.

ACE worked with Black and Veatch consulting during the design stages of the works, and have provided 5 large flapvalves measuring 4m x 1.5m to protect the lakes from the Trent in case of flooding.

To allow fish passage, ACE also provided a side-hung mitre flap, which is used in conjunction with the fish pass constructed as part of the works. The flaps are manufactured in HDPE and Stainless Steel, meaning that they operate under very low head differentials, and also require very little maintenance.

The flapvalves were installed by Saviour Engineering Ltd, also based in Nottingham, following previous projects they had installed for ACE, such as the Little Marlow STW, Locks Mill Sluice at Spalding and Worcester Park.

ACE would like to thank Jackson Civil Engineering, Black and Veatch and Saviour Engineering for their assistance during the project, making it run very smoothly for all involved.