



# Project: St Germans Pumping Station



**Birse Water** (M&E Contractor)  
**Middle Level Commissioners** (Client)

**6No. 4x4m Penstocks**  
**6No. 4x4m multistage flap valves**  
**12No. Stop-logs**

**Value £1.4m (of £32m total)**

“I have been very impressed with the levels of service given and the professionalism of the ACE management of the project.”

- Senior Construction Manager, Birse Water



The impressive St. Germans Pumping Station is the largest land drainage pumping station in the UK, and second largest in Europe. ACE (Aquatic Control Engineering) were proud to have been awarded the contract for the project management and installation of the KWT penstocks, flap-valves and stop-logs package, on this prestigious pumping station.

The St. Germans pumping station boasts 24 heavy duty custom built control structures, including 6 hydraulic penstocks each measuring 4m x 4m, 6 multi-stage flap-valves again measuring 4m x 4mm with a custom design frame extending to the coping level which was some 11m from invert to coping.

**Birse**  
**Water**



**Aquatic Control Engineering Ltd**

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**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.

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Finally to complete the system at St Germans there are 12 stop-log assemblies for isolating each channel, the largest of these are on the inlet side where each inlet frame measure 11m wide!

These stoplogs stack to an impressive 7m high. Both the inlet and outlet stoplogs can be deployed and removed with the simple ingenious power free lifting system.

David Thomas, Chief Engineer for Middle Level Commissioners remarked on the flow control equipment installed by ACE at St Germans. "In the 6 years since the works have been completed the equipment has always functioned well and has required very little maintenance."



ACE's extensive portfolio is complemented with in-house expertise and services which include installation, commissioning, site liaison, surveys, as well as supplying supplementary items such as actuators and hydraulics. This positions ACE perfectly to manage full M and E schemes, as more recent projects such as the Morpeth Flood elevation scheme, see separate case study available on request.