

Project Information:

Consultant	JBA Consulting
Blackwell Role	Main Contractor
Form of Contract	NEC3 Option B
Contract Value	£987K

Blackwell Site Management:

Contracts Manager:	Adam Lane
Project Manager:	Phil Holden
Quantity Surveyor:	Rob Tacey



Services Include:

Civil Engineering **Earthworks** **Geotechnical** **Remediation**



Contract Summary:

Oakenshaw Beck, a stream located in close proximity to a large residential area in Agbrigg, presented a flood risk to nearby properties - both in isolation and in combination with the River Calder. In June 2007, severe flooding in Agbrigg was reported to have affected 400 properties and also flooded the A638 Doncaster Road, causing severe disruption. A number of nearby culverts, including those located at Agbrigg Farm and under Doncaster Road, were found to be under capacity, which further increased the risk of flooding.

Constructed on the site of a former landfill, the flood alleviation scheme was designed to provide protection to a 1 in 200-year standard by isolating the area at risk from high levels in Oakenshaw Beck. This was achieved by the construction of a flood embankment and other reinforced concrete structures to complete the defence.



Key Processes:

The main elements of the scheme included:

- The excavation of made ground from the main site and disposal on the fill site.
- The formation of a flood embankment.
- The construction of control structures.
- The implementation of a pumping station and control house.
- The installation of a parapet wall, floodwalls and floodgates.
- The construction of a diversion weir, channels and ponds and the installation of low flow culverts.
- Miscellaneous operations, including fencing and the construction of cable pulling chambers.

