

Project Information

Stirling Flood Alleviation Scheme GI

Client: Stirling Council

Client's Representative: Mouchel

Site operations: August to October 2017



Trial pitting equipment



Cable Percussion rig working close to the site of the Battle of Stirling Bridge



Work area close to the banks of the River Forth

Causeway Geotech were appointed by Stirling Council to carry out the Ground Investigation for the proposed flood alleviation scheme in Stirling. The works were split into two phases, one covering Raploch and Westhaugh, the second at Queenshaugh and Riverside.

The investigation was scoped to provide assessment of geo-environmental conditions to assist the design and construction of the proposed flood defences along the north and south banks of the River Forth.

The scope of works included:

- 46 Cable Percussion boreholes to a maximum depth of 22m
- 14 Dynamic sampling boreholes to a maximum depth of 10m
- 25 Trial pits with a mechanical excavator to 4.5m depth.
- Variable head permeability tests and BRE365 soakaways
- Geotechnical and environmental sampling.
- VOC monitoring by PID
- Monitoring installations including standpipes, gas monitor wells and piezometers.
- Site monitoring of water levels and gas concentrations.

The works were carried out across a variety of terrain including parkland, agricultural land, river banks, existing structures, car parks, existing road verges. Two of the test holes were carried out on public footpaths under control of Traffic Management.

The investigation was successfully completed under the supervision of a Senior Engineer and two Site Engineers from Causeway Geotech working closely with the Client's Representative and Stirling Council

Several locations were close to the site of the Battle of Stirling Bridge and were carried out under supervision from the appointed Archaeologist.