

COLTHOUSE BECK



South
Cumbria
Rivers
Trust

SCRT were the lead partner for a collaborative Natural Flood Management (NFM) project aimed at protecting properties in the small village of Colthouse, near Hawkshead, after repeated flood events.

The science led interventions, appraised by R.G. Parkins and Partners Ltd assessed flow and rainfall in the catchment ensuring the NFM interventions would target specific rainfall events. The works will help reduce the risk of flooding to residential properties as well as providing habitat and biodiversity benefits after the de-culvert of a watercourse at the site.

The interventions were supported by landowners National Trust Ltd and funded by Cumbria County Council with the Environment Agency funding initial walkover assessments through the DEFRA NFM programme.



NFM Interventions

- De-culvert of the existing stone-walled culvert at the top of the site.
- The creation of a re-profiled open watercourse channel through the site.
- The creation of x2 bunds and x3 leaky dams using natural materials (earth and timber), designed to temporarily store and attenuate peak flows from the watercourse during storm events
- The construction of x2 formal headwalls and adjustable orifice plates enable optimal storage in target flood events.

