

Northumberlandia slope stabilisation

Location: Northumberlandia

Client: Banks Group

*The world's largest human form
sculpted into the landscape*



Project Overview

Banks Group required the specialist soil nail services of Pennine Geotechnical to help complete this iconic landscape structure. Northumberlandia is a landmark feature designed by world renowned artist Charles Jencks, which celebrates the earth's natural power and the human ability to reshape landscape into a dramatic form.

Lying at the entrance to south east Northumberland, near the town of Cramlington, she will be up to 34 metres high and 400 metres in length. Most importantly Northumberlandia will be the centrepiece for a 19 hectare public park in the urban fringe between the rolling countryside of mid Northumberland and the urban areas of south east Northumberland and Newcastle to the south.

Work commenced on constructing the landform since 2010 and Northumberlandia has gradually risen from the ground. In total 1.5 million tonnes of soil and clay from Shotton Surface Mine will be used to create this ambitious piece of public art. The construction has been privately funded by the Banks Group and Blagdon Estate.

Result

80 Soil Nails were installed at depths of up to 9metres using a Marini MA100 & Ripamonti feedbeam combination. This configuration was selected in order to deal with challenging topography of the site, in particular the angle of slopes in which Soil Nails were installed.

Technical Information

Soil Nails – Dywidag R32N nails

Mesh – Geosynthetics Landlock

Drilling equipment - Marini MA100 & Ripamonti