



TILlicOUNTRY GLEN, UNITED KINGDOM

Slope Stability

Tillicoultry Glen

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| Project | Tillicoultry Glen |
| Location | Tillicoultry |
| Country | United Kingdom |
| Year of installation | 2016 |
| Customer | Clackmannanshire Council |
| Engineering Contractor | Key GeoSolutions Ltd. DHRA Geotechnical Ltd. |
| Initial situation | A historic public right of way runs along the Glen, in recent years there has been an increasing number of rockfall striking the right of way. After an incident in 2015 in which the path was badly damaged it was decided to close it and remediate the slopes. |
| Description | The designer approached Geobrugg after deciding that scaling alone would not offer the long term safety the client was looking for. Geobrugg was approached for advice on using TECCO® System on rock slopes. Following a visit to site we identified that just using TECCO® System would not prove to be the most efficient solution. Geobrugg identified areas that would benefit from TECCO® System, others that would be more suitable for DELTAX® and two areas that would benefit from SPIDER® System due to the very angular nature of the rock faces. |
| Protected object | Touristic infrastructure |
| Corrosion protection | GEOBRUGG SUPERCOATING |
| Geology | The southern end of the glen is marked by the Ochil fault line which has Devonian Old Red Sandstone to the north of the fault and Carboniferous coal measures to the south. The glen itself rises steeply as you head north, the predominant geology of the glen comprises volcanoclastic and basaltic through andesitic lavas. Much of the volcanic sequence has been heavily metamorphosed by subsequent intrusions, the most prominent intrusions are visible at the foot of the glen and are quartz dolerite in composition, much of the first set of DELTAX® and SPIDER® is stabilising a metamorphosed zone north of this intrusion. Throughout the glen there are several Devonian diorite dykes that form part of a local radial swarm. The glen itself is recognised as being locally significant in geological terms, with several sections of the glen recognised as a local geopark. |
| Stabilized area | 400 m ² |
| Maximum slope height | 10 m |
| Slope inclination | 40 ° - 90 ° |
| Exposition | East |

For questions please contact our Geobrugg specialist at your side

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