

Dan Y Lan Landfill Slip

The finished slope was 36 degrees, 40 metres in height and 60m wide. 250mm depth of topsoil was required, rather than the nominal 50-75mm, as cover for marginally contaminated on site fill material.



The geotechnical issues were solved using our grids. For the surface treatment, Salix installed a series of dead willow fascines at 1.5m spacing down the slope in order to physically retain the 250mm of soil cover. Willow fascines are a more environmentally sustainable alternative to cellular confinement systems and are easier to fill.

Salix then protected the 4000m² face with HydraCX, a hydraulically applied erosion control solution that allows rapid establishment of vegetation.



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"In facing the engineering challenges of the reinstatement of a landslip of over 8,000 tonnes, which required the re-use of the landslipped material into a steep faced reinforced embankment, the project required a system to control short term surface water scour, minimise mechanical disturbance of the newly applied topsoil and promote rapid vegetation growth on the newly constructed embankment face in a sustainable way. The HydraCX system delivered these project requirements providing rapid application, evidence of short term scour protection and substantial vegetation growth within 4 weeks of application using only biodegradable materials. The embankment is now well vegetated and holding its own against the rigours of the Welsh weather!"

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