

### Dan Y Lan Landfill Slip



#### KEY DETAILS

<b>PROJECT NAME :</b>	Dan Y Lan Landfill Slip
<b>CLIENT :</b>	Dawnus Construction for Rhondda Cynon Taf
<b>LOCATION :</b>	Pontypridd, South Wales
<b>PROJECT CATEGORY :</b>	Slope soil erosion control

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

Salix then protected the 4000m<sup>2</sup> face with HydraCX, a hydraulically applied erosion control solution that allows rapid establishment of vegetation.

"In facing the engineering challenges of the reinstatement of a Land slip of over 8,000 Tonnes, which required the re-use of the land slipped 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 HydraCX2 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 rigors of the welsh weather!". Andrew Stone, BSc(Hons). IEng. MICE, RMaPS, Land Reclamation & Engineering Manager, Rhondda Cynon Taf



Installation of willow faggots



HydraCX applied over finished surface



Day after installation of HydraCX



24 days later after severe rain events



70 days later



Legume rich reclamation mix

## CONTACT DETAILS

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