

### Treboeth Cobble Bed Channel



#### KEY DETAILS

<b>PROJECT NAME :</b>	Treboeth Cobble Bed Channel
<b>CLIENT :</b>	Private Developer
<b>LOCATION :</b>	Swansea
<b>PROJECT CATEGORY :</b>	Rivers and Watercourses-High Energy

A new development had slope stability issues due to an adjacent cobble bed watercourse badly eroding the soils and downcutting the bed within the channel. The steep channel gradient had a very flashy, aggressive flow regime. Salix were recommended to the developer by a previous client to provide design& build solution.

A more cost effective, sustainable alternative to blockstone was proposed using a turf reinforcement matting (TRM) called VMax C350 on the re-graded slopes. Vmax C350 is a UV stabilised permanent (TRM) that reinforces the vegetation on the banks allowing the grass to take flows of up to 6m/sec without soil loss.

Rock rolls were installed at the toe to withstand the abrasive action of cobbles and gravels under flood conditions, with a living element of a pre-established coir roll containing native marginal plant species to encourage plant growth through the rock rolls. Rock rolls are a flexible system, pre filled off site with small stone that allows accretion of sediment and roots to grow through and also allow movement of benthic invertebrates within the riparian zone and water.



Treboeth eroding cobble bed channel.



Post Installation.



Two months after completion of works.



One year later.

## CONTACT DETAILS

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