

River Pipeline Crossing



KEY DETAILS

PROJECT NAME :	River Pipeline Crossing
CLIENT :	NACAP Land & Marine
LOCATION :	Meinciau, Carmarthenshire
PROJECT CATEGORY :	High energy rivers

Salix were invited to submit a bioengineering solution to solve an erosion issue at a pipeline crossing in West Wales. The solution used a combination of locally harvested willow and Rock Rolls to provide a stable revetment in this cobble bed river.

Salix were asked by Main Contractor NACAP Land & Marine to assess the potential for using a bioengineering solution to control the eroding riverbanks. The erosion was an existing issue prior to the pipeline crossing and initially a blockstone revetment was considered. However, consultants from Salix were confident that a bioengineering solution could work in this instance.

The bioengineering design solution used locally harvested willow material used as live stakes and the thinner branches used to form live fascines (faggots). A double Rock Roll was placed at the toe to prevent the willow plantings from being undercut and to protect against abrasion from the mobile gravel/cobble bedload.



Eroded bank prior to works



Bioengineering works during construction



Completed bioengineering revetment



Growth of bioengineering revetment after 1 year

CONTACT DETAILS

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