

## River, Isle of Man, UK

Traditionally, riverbank erosion problem on the Island have been solved using “hard” revetments such as gabions and sheet piling. With the need for more sustainable river management techniques to be employed Salix were asked to design and supervise a demonstration project using soft bioengineering methods. A combination of hazel fascines and coir rolls were used to protect the toe of the bank. Local wetland plant species were dug up and planted directly into the coir rolls. The graded river bank was seeded with a local species mix prior to installation of a high performance erosion control geomat (C350). Additionally, a “backwater pond” habitat was designed and created to provide an ecological and landscape enhancement.



Above: Rock Roll installation at the toe of the bank



Above: Salix supervision and on site training of works

Below: The river bank is graded and infilled



Below: Installation of the C350 erosion control geomat



Above : The bioengineering solution after 6 months growth



Above: Creation of the backwater habitat / 6 months after being dug