

## Case Study: Bank Stabilisation, Glascoed Fish Pass, Nr Oswestry Wales Products: PP5 Heavy Duty Parament TRM & Greenfix Anchor System



The free passage of migratory fish is a key requirement of the Water Framework Directive, and is being used as an indicator for assessing whether water bodies are meeting Good Ecological Potential or Status.

This project comprises the construction of a bypass channel to allow fish passage to the upper reaches of the Afon Cynllaith. The bypass channel is approximately 140m in length, has a gradient of 2.5% and contains 15 traverse bars spaced at a minimum distance of 9.6m.

Greenfix PP5 Heavy Duty was selected as the most suitable material. This is a fully synthetic, UV stabilised Turf Reinforcement Mat (TRM) manufactured using an innovative continuous thread weaving process. The finished product has a three dimensional pattern that is resistant to environmental and climatic conditions providing high strength, durability and reinforcing. The expected design life of the PP5 Heavy Duty is 25 years in most applications. The PP5-Heavy Duty material was installed by securing within an anchor trench at the head of the slope and securing at the toe of the embankment. To achieve an effective finished surface it was seeded prior to and post rolling out of the material. The mat was secured using the Greenfix Anchor System which works effectively in the fast flowing water conditions of the fish pass. The completed PP5-Heavy Duty slope provides a secure surface once fully established and the permanent nature of the matting coupled with the Greenfix Anchor System ensures long term turf reinforcement and the immediate erosion control required by the constantly flowing water of the fish pass.



### Contractor



### Client

