



## Case

# STUDY

## TENAX & RIVEL

River Alt  
Reinforced Slope



**MARKET SECTOR:**  
Residential



**LOCATION:**  
Stonebridge Lane, Croxteth  
Liverpool



**CONTRACTOR:**  
William Pye Limited



**CONSULTANT:**  
Nolan Associates

## The BACKGROUND

**In order to facilitate future development on the site it was necessary to divert the existing route of the River Alt around the perimeter of the site.**

To maximise land use the diversion took two very sharp bends which in turn required steep slope angles. To ensure the newly formed river banks were protected from scour and erosion, Geosynthetics Limited proposed a reinforced earth structure.

## Our Client's REQUIREMENTS

A sustainable solution for a reinforced slope to a swale

**Utilising site won soils and introducing geogrids it was possible to construct a 3m high wall at a 70o slope angle.**

By using the Tenax Rivel system it was possible to ensure that a constant reinforced slope angle was achieved. At the face of the structure soil filled bags were placed to provide an environment to promote vegetation growth providing ongoing protection to the structure.





## Our Value Engineered **SOLUTION**

**The solution ensured that land use was minimised and that site won soils were utilised mitigating costs of muckaway and imported materials.**

The structures will be vegetated and blend in with the immediate surrounding area.

