

CASE STUDY

RETAINING WALL

& EROSION PROTECTION

TWEED RIVER, NSW

PLATIPUS® B4 ANCHOR SYSTEMS



CONTRACTOR	Crosana Pty Ltd
ENGINEER	Sheehy & Partners Consulting Engineers
LOCATION	Tweed River, NSW
PRODUCT USED	Platipus B4 Anchor Systems

**ADVANCED
GEOSYNTHETIC
SOLUTIONS**

The Project

The project involved providing further stability and erosion control to an existing 12m length x 2m high retaining wall adjacent to a private property on the River Tweed in NSW.

Design

The consultant designed a 2m high anchor tie-back shotcrete (Natracliff style finish) retaining wall. Two levels of Platipus B4 anchor systems were installed at 2m centres along the 12m length of wall. Passive ‘Design’ Loads of the anchor systems was 20kN (2t).

Installation

20 off Platipus B4 Anchor Systems were installed to depths of 3m by mechanical means and utilising a hand-held jack hammer. Each anchor system was tensioned, load locked and tested to a ‘30kN’ Proof Load. The vertical wall face was finished with a ‘Natracliff’ style shotcrete.

The Platipus anchoring systems were chosen and deployed for the following main features & benefits:

- Mechanical installation using a hand-held jack hammer for a difficult access project site
- All Platipus B4 anchor systems were installed and instantly load verified in two days
- Environmental disruption was minimised by designing and installing the ‘dry’ mechanical anchor systems, no grouting measures necessary!
- A ‘Natracliff style shotcrete proving a more natural looking wall face

