



environmental
engineering

ENVIRONMENTAL PROTECTION

CASE STUDY

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ROCK GABIONS & SOIL ANCHORS

REMEDIAL WORKS - GILLIES HIGHWAY, CAIRNS FNQ

Installed by Groundwork Services

CLIENT: RoadTek Cairns

DATE: 2008

PRODUCTS: Gabions, Soil Anchors and accessories

PROJECT OUTLINE:

Subsidence of the road shoulder due to saturation from continual rainfall, required a quick response to remedy the problem.

Working in challenging conditions and limited space, the use of gabions to reinstate the road shoulder was completed in a day and thereafter, using soil anchors to achieve 20kN loads to reinforce the structure was completed in a similar timeframe.

The need to introduce grouted soil nails was limited to only three lengths where the anchors met refusal. The combination of techniques delivered the solution to the problem in a timely manner over traditional approaches to the work.

The road restrictions were lifted and the structure holds fast to date.

