CONCRETE CANVAS®

CHANNEL LINING

Project Info

- 01 / 01 / 18
- CC8™ Bulk Rolls
- 375m²
- Transverse layers
- Cowra, New South Wales, Australia
- Cowra Council Construction Team
- CC used to line a failed open drainage channel to prevent further erosion and undercutting

Completed installation in New South Wales, Australia

In January 2018, Concrete Canvas® GCCM* (CC) was used to line an open drainage channel in Cowra, New South Wales, Australia.

The open drain had failed following substantial rainfall, which had led to undercutting and failure of the existing corrugated steel drain. Geofabrics Australia produced a detailed proposal for the client, Cowra Council, who assessed a number of potential solutions and opted to specify CC for the project. The decision to use CC was influenced by the initial and whole-life costs compared to alternatives, as well as the durability of the material, and the ease of installing it. The works were carried out by Cowra Council's construction team.

CC bulk rolls were delivered to the site, mounted onto a spreader beam and excavator and deployed transversely across the drainage channel. Subsequent layers of CC were overlapped by 100mm in the direction of waterflow, and lengths cut as required using a Stanley knife. The material edges were captured in a pre-dug anchor trench using 380mm ground pegs. The council construction teams followed the installation guidelines provided by Concrete Canvas Ltd, folding the overlaps back and hydrating them before jointing using adhesive sealant and stainless-steel screws inserted at 200mm intervals. Once installation was completed, the rest of the material was hydrated from a water truck.

*Geosynthetic Cementitious Composite Mat

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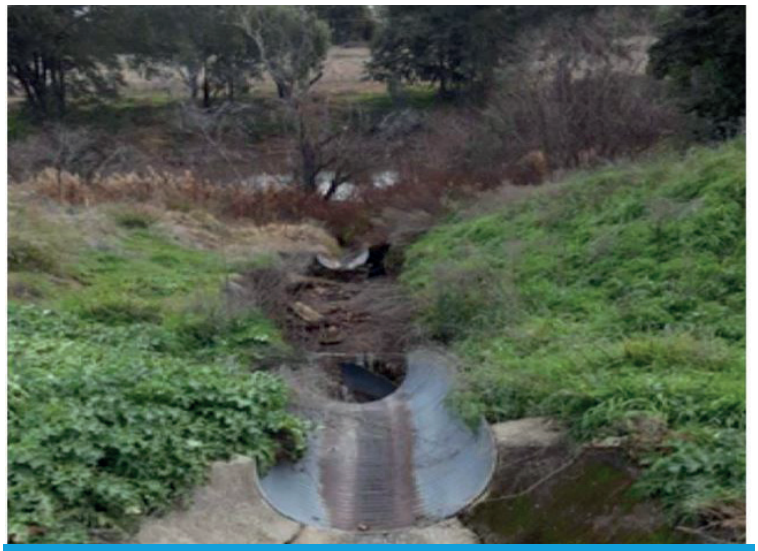

Drian prior to works

Heavy rainfall had resulted in severe undercutting

Completed installation

375m^2 of CC8^{TM} were installed in 3 days by 4 people, in dry weather conditions. However, CC can be installed in inclement weather as the material remains workable for up to 2 hours following hydration. CC was considerably quicker to install compared to traditional concreting methods.

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