

## Project Info



04 / 05 / 15



CC5™ Bulk Rolls



1,600m<sup>2</sup>



Transverse layers



Cook, Cooper Basin,  
Queensland, Australia



Aussie Enviro



CC was specified to protect secondary containment bunds located at a remote storage facility that had been affected by erosion.



Layup of CC

In May 2015, Concrete Canvas® GCCM\* (CC) was used to remediate a bund at a remote tank storage facility in Cook, in the Cooper Basin of South West Queensland, Australia, owned and run by Santos. The existing bund had been affected by erosion which compromised its integrity. Clay capping, cement treated fill and shotcrete were all considered as possible solutions. These options were deemed unfavourable as they would either require too much earthwork (impractical due to access restrictions), or would have been too expensive.

Due to the site access issues, hand tools had to be used to complete the majority of the re-profiling required, before anchor trenches were dug at either side. CC5™ was then unrolled on the flat and cut to specific profile length, carried to site by hand and deployed transversely across the bund, with each layer overlapping the previous by 100mm. The overlaps were jointed with screws at 200mm intervals using an autofed screwdriver, and ground pegs were inserted through the overlaps to fix the CC in the anchor trenches. Hydration was achieved using a bowser and pressure hose with spray nozzle attached, after which the anchor trenches were backfilled to prevent water ingress under the CC and provide a neat termination.

In total, 1,600m<sup>2</sup> of CC5™ were installed in just 5 days by 3 people. The use of CC allowed for concrete installation where it would not have otherwise been possible due to the limitations of conventional concreting methods. The client was pleased with the speed and neatness of the install.

\*Geosynthetic Cementitious Composite Mat







*Ground preparation*



*Batching CC to length*



*Unrolling CC*



*CC pegged in anchor trench and jointed with screws*



*Hydrating CC*



*The completed project*