



# CONCRETE CANVAS™

*Concrete Impregnated Fabric...*

## BUND LINING



ROAD



RAIL



AGRO



OTHER



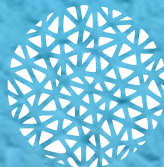
DESIGN



2011 Expert's Choice Winner  
Most Innovative Product



MTP Gold Medal Award  
BUDMA 2011



Material ConneXion  
Material of the Year 2009

Material ConneXion®  
MEDIUM AWARD  
MATERIAL of the YEAR 20



Design to Improve Life Award  
Nominee, 2011

## 07.06.11 Slope Stabilisation Case Study : Classified

In May 2011, Concrete Canvas (CC) was specified as the surfacing material for a 2.3m high bund surrounding a remote storage facility. A total of 2900sqm of CC5 was installed on a sand base in order to protect the slope against the effects of wind, rain and long term environmental degradation.

CC was specified over conventional lining solutions such as shotcrete or reinforced concrete due to the cost and time savings offered as well as additional site specific benefits.

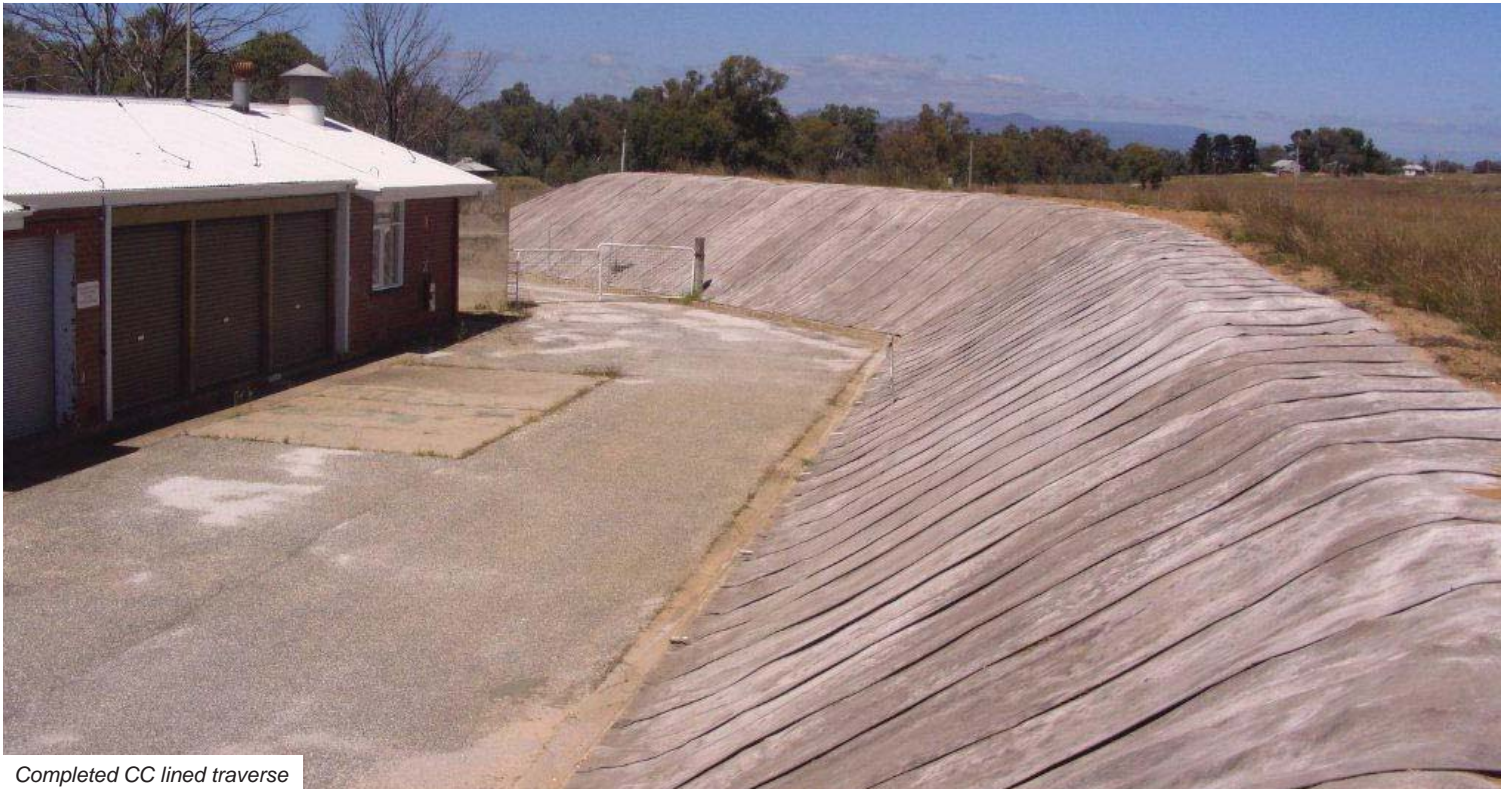
The traverse batters were excavated to a maximum of 30° to the vertical ensuring surface flow was directed into the 600mm wide spoon drains at the base of the bund. A 50mm sand base course was applied to the traverse prior to the installation of the CC to allow free drainage. The CC was supplied as 200sqm bulk rolls and installed on site using plant mounted spreader beams. The material was unrolled into position and fixed into the batters using 500mm soil pins with washers. Each CC layer was anchored top and toe of the batter by a minimum of 300mm and overlapped 100mm between adjacent sheets. Weep holes were drilled into the base of the Canvas at 3m centres once the CC had set.



Traverse prior to CC lining



Corner detail of CC lined traverse



Completed CC lined traverse

## 26.05.11 Case Study : Departamento del Meta, Colombia

A trial bund lining project was carried out on behalf of Pacific Rubiales Energy as part of reinforcement works at the CPF-2 Meta Petroleum Corp oil field facility in Colombia.

The trial demonstrated that CC could be installed onsite without the need for heavy plant equipment, which was critical for a site with limited access and within a hazardous environment. The works were also completed in wet weather conditions which would have halted traditional concreting works.

Meta Petroleum Corp were impressed with the simple and rapid installation method of Concrete Canvas as well as its immediate effectiveness after laying. Topography studies are being completed in preparation for larger CC projects in other areas of the oil field, including drainage works and more extensive bund lining.



Initial ground inspection and preparation



Cutting CC to length from batched rolls using basic hand tools



Layers of CC being fixed into the substrate and to adjacent layers using ground pegs and staples



Hydrating of the fixed CC layers



Completed trial bund lined section



The CC lining was tailored to fit in and around existing pipe work