

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.

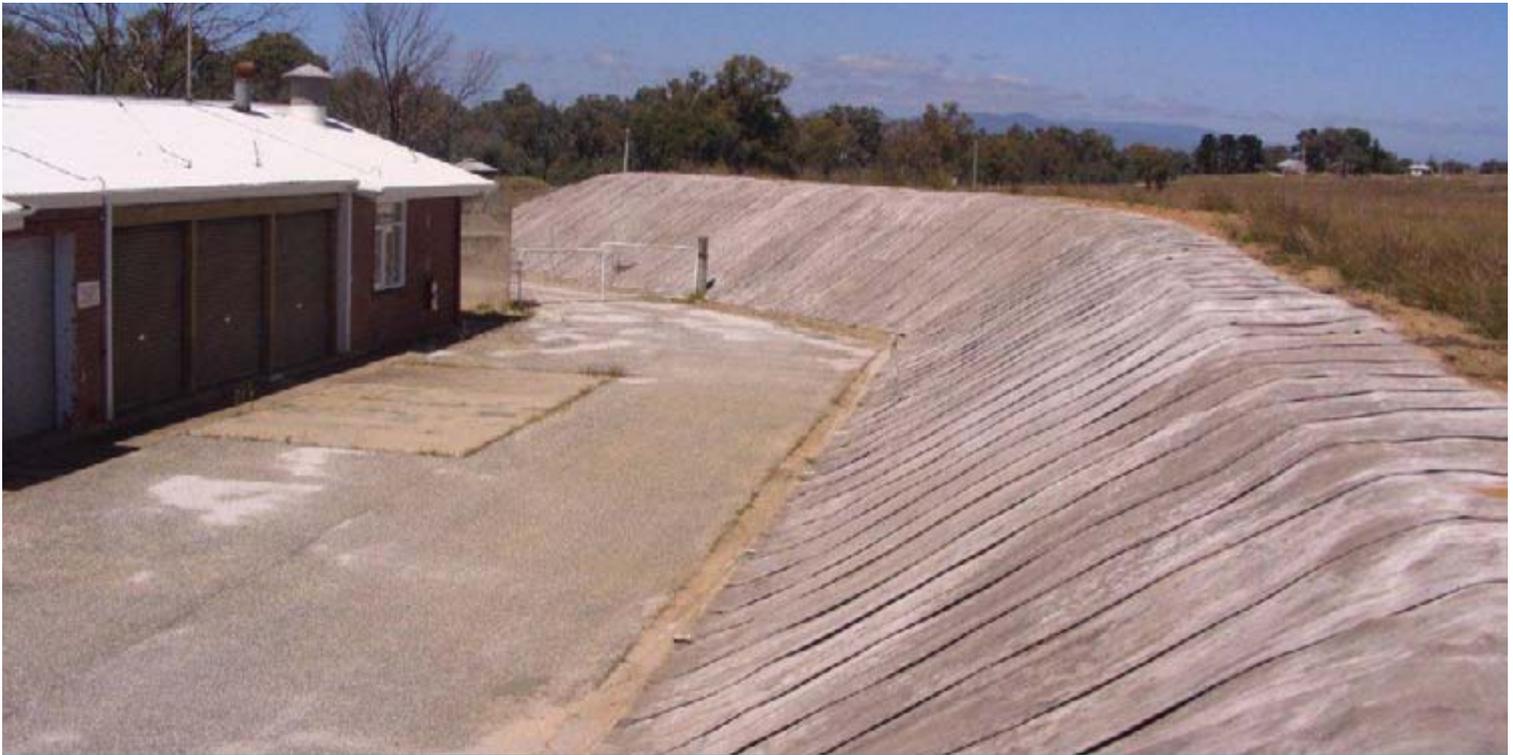
The traverse batters were excavated to a maximum of 30° to the vertical ensuring surface flow was directed into the 600mm wide spoon drains at the base of the bund. A 50mm sand base course was applied to the traverse prior to the installation of the CC to allow free drainage. The CC was supplied as 200sqm 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