

# Case Study

# Geofabrics

Project: Northern Snuggery Landfill  
 Date: 1998  
 Consultant: Golder Associates  
 Contractor: Teagle Earthmoving



## ELCOSEAL<sup>®</sup> Geosynthetic Clay Liner

Northern Snuggery landfill site is located at Millicent in South Australia's South East, a region renowned not only for wine, but farming, timber and production of paper tissue products. After Amcor effected the sale of their cellulose mill and adjacent landfill site in 1998, they approached South Australia's Environmental Protection Agency, offering to remediate the disused contaminated landfill.

Golder Associates were hired for design of a capping system that would not only prevent ingress of rainfall, but also contain any hazardous gases given off from the decomposing waste timber. The aim was to provide a safe and productive grassed environment for the existing landholders to use.

Golder Associates prepared a closure plan and a capping design incorporating ELCOSEAL X2000 to provide a waterproof cap and a low permeability vapour barrier to contain rising Methane gas. Bidim A14 geotextile encapsulating stone filled trenches, located radially about a central venting point, served as a gas collection system under the ELCOSEAL cap.

Local contractor Teagle Earthmoving constructed the capping system and sand drainage cover layer. Construction was completed by placing a growing medium compost over a silty clay root zone layer. The surface area totalling 19 500 square metres was sown with grass and is now sustaining livestock in a successfully remediate environment.



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