

CASE STUDY

Erosion Control | Landfill Slope | New England Road Landfill, Pietermaritzburg

Oct 2012

Client Msunduzi Municipality

Contractor Construction & Plant Building & Civil Engineering

Consultant Envitech Solutions

Product **SoilSaver® 38 900m²**

Rep Paul Lombard

Problem

Topsoil on the slopes of a landfill site alongside New England Road, Pietermaritzburg, was being eroded by rain and strong winds resulting in blockage of surface drains at the base of the slopes. This in turn caused excessive surface water build-up with subsequent damage to site infrastructure while the resultant run-off was polluting the nearby Msunduzi River.



Exposed slope

Solution

Envitech Solutions specified **SoilSaver®** as the single solution to the destructive, costly chain of events. Although an alternative to using **SoilSaver®** in this project might have been hydro seeding directly onto the slopes, the first rainfall would have resulted in seeds being washed down to the base and the slopes left bare of vegetation. Supplied in lightweight bales, **SoilSaver®** was rolled out and pegged down to the slope to hold seeds & soil firmly in place.



*Slope with **SoilSaver®** jute pegged to surface*

Benefits

With minimal erosion occurring due to the stabilization of the slopes' topsoil, the surface run-off is significantly decreased, resulting in far less pollution of the Msunduzi River. The surrounding community benefits from the minimisation of the harsh visual impact of a closed landfill site that was soon covered by green grass.