

PAN PAC CHANNEL LINING HAWKES BAY

EROSION CONTROL

Product: Enkamat

Problem

The stormwater pond upgrade at the Pan Pac mill site north of Napier required the construction of an overflow bypass channel. This channel had to be grassed and be able to withstand high water flows during peak rainfall events.

Solution

Enkamat 7018 was chosen to provide erosion protection and increase the stability of the steep sided slopes. Enkamat, a three dimensional turf reinforcement matting functions by reinforcing the grass root zone which in turn improves the ability of the grass to withstand high water flows and prevent erosion.

The channel was excavated to a depth of 2.5m with sides shaped to a 70 degree batter. Enkamat was then laid down the slopes and across the invert with overlaps of 100-200mm facing downstream. Due to the steepness of the slopes and the loose gravelly soil, pining was specified using a minimum of 230mm long pins at a 0.5m grid.

Seed was mixed with the soil and spread into the matting with an extra hand scattering of seed on the surface. A special low maintenance grass seed mix (Duraturf Park Blend) comprising of Joust perennial ryegrass and chewing fescue was used to limit the requirement for cutting. This mix is used in low maintenance parkland areas and contains no clover which would normally boost grass growth. Despite sowing at the start of winter good grass strike was achieved.

Enkamat has been used successfully in many applications including grassed spillways, drainage swales, pond edge treatments and combined with rockfall netting for steep batter stabilisation.

Client name:

PAN PAC FOREST INDUSTRIES

Main contractor name:

FULTON HOGAN NAPIER

Consultant:

MWH HASTINGS

Product used:

ENKAMAT 7018

Construction date:

JUNE 2003



Channel prior to construction

Date: June 2003



Enkamat placement

Date: June 2003



Revegetation of Enkamat lined slopes

Date: August 2003

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Quality System AS/NZS ISO 9001:2000

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