

REFERENCE PROJECT

Geotechnical Slope Stabilisation Works

Location: Tavistock Road, Melrose, Wellington
Date: September 2018
Client: Home owner
Consultant: Geological Services Ltd. Hokitika

A landslip behind a house in Melrose undermined a bank and walkway leading to a pergola above the house, thereby posing a slip threat to the home. Abseil Access was awarded the project to support the walkway and bank by installing an alternative design of Macmat R rockfall mesh with a geotextile layer (to promote vegetation growth) replacing the shotcrete. The anchor design was based on the EQC report and our previous experience.

The area was cleared of loose debris and undermined trees and vegetation. It was then re-profiled as required to best fit into the garden layout. Trees and plants were left in place wherever possible to assist with making the area as neat as possible.

10 Galvanised 20mm Reid Bar anchors 4m long were installed into 75mm diameter holes for the main rock anchors to retain the erosion control mesh. Air powered hand drills were used to drill the anchor holes. 8 & 10mm diameter galvanized cables hold the mesh down onto the face by connecting it to the rock anchors.

A new timber retaining wall was installed to replace a collapsed retaining wall uncovered during the works in order to hold the lower bank away from the edge of the home. This was held in place with three galvanized R32 anchors 2m deep.

The works were done in accordance with the Engineers proposed specifications and quality requirements.

