

REFERENCE PROJECT

Geotechnical - Rockfall Protection

Location: Frances Hodgkins Building, Dunedin
Date: August 2015
Client: Ryman Healthcare
Consultant: Geosolve, Dunedin

A disused 35m high quarry face behind the Frances Hodgkins retirement home posed a rock fall risk to the building. The final stages of work to mitigate the risk involved application of shotcrete and drainage works to the weak volcanic ash layer.

Abseil Access was selected to apply the shotcrete and install the drainage that was complicated by the height and the limited ground access.

A flexible rock mesh anchored to the overlying basalt was used as re-enforcing on the undulating face. 90 drainage holes were added to ensure ground water could escape. A 100mm thick layer of shotcrete was applied over the reinforcing mesh on an area more than 500m². The shotcrete was applied as a dry mix (gunite) using rope access or an elevated work platform where possible.

The project was completed within the allocated time frame with minimal inconvenience to the retirement village.

