

REFERENCE PROJECT

Geotechnical (Slope Stabilisation)

Location: Cressy Tce, Lyttelton, Christchurch
Date: February – March 2016
Client: Fulton Hogan
Consultant: Coffey
Principal: Christchurch City Council (CCC)

The loess slope above the Lyttelton Tennis Club courts on Cressy Terrace partly collapsed after the Canterbury 2011 earthquakes.

Abseil Access Ltd were engaged by Fulton Hogan to carry out the supply and installation of soil nails, slope drainage, and shotcrete application.

The repair to the slope consisted of a staggered grid soil nail design with 28 x 6m deep, 150mm diameter holes, 25mm epoxy coated grouted steel threaded bars. All of the holes were drilled with our drill mast mounted to a 5.5t excavator.

The slope face was profiled to a smooth 70° face before the drilling was carried out.

Once the drilling was completed and soil nails inserted into the holes; an overlay of geocomposite drainage strips and SE82 reinforcing mesh was installed. A 150mm shotcrete cover was applied from an Elevated Work Platform.

All tests and quality assurance requirements were met and the finished work exceeded the design specifications.

