

# ABSEIL ACCESS LTD

## Reference Project

### Geotechnical – Cliff Stabilisation

Location: Rocks Rd, Nelson

Date: June & July 2009

Client: Downer EDI Works & NZTA

Consultant: Opus Consultants

This site is above SH6, Rocks Road, in Nelson – a busy carriageway with approximately 21,000 vehicles driving by each day. Two-way contraflow traffic was maintained during the project, with a Level 1 temporary traffic management plan in place to suit local requirements.

The 30m high sandstone cliff included loose blocks, open cracks, and an intersection of 40° joint plane & overlying rock wedge. The rock bolts were installed at approx 1.6m centres – some to support loose blocks – and were tested to 231kN.

The workscope on this section of cliff included:

- rock scaling loose blocks & removal of vegetation
- drilling & placing 50mm x 4–6m deep RB25 grouted rock bolts & head plates
- drilling 13 x sub-horizontal drainage holes
- drilling & placing 126 x RB16 rock dowells
- installing 192m<sup>2</sup> Maccaferri rockfall netting
- installing colour-matched shotcrete over 300m<sup>2</sup> of the cliff.

Working to a very tight time schedule, the project was completed in nine weeks, utilising a combination of Rope Access techniques and Elevated Work Platforms to access the site.



Above & below photo copyright B Evans



Glenn Bisdee Photography



#### ABSEIL ACCESS LTD

15 Bute Street  
P.O. Box 10717, Wellington  
Phone and Fax: 04 801 5336  
[www.abseilaccess.co.nz](http://www.abseilaccess.co.nz)  
[info@abseilaccess.co.nz](mailto:info@abseilaccess.co.nz)

DJ Matheson 0274 449 774  
[djmatheson@abseilaccess.co.nz](mailto:djmatheson@abseilaccess.co.nz)

Martin Wilson 0274 495 408  
[mwilson@abseilaccess.co.nz](mailto:mwilson@abseilaccess.co.nz)

