

Maitai Water Pipeline, Geotechnical Risk Assessment, Nelson

Client

Nelson City Council.

Project

The Maitai water pipeline was constructed in the early 1960s and is Nelson's principal water supply pipeline. Tonkin & Taylor was engaged by Nelson City Council (NCC) to complete a geotechnical risk assessment of the pipeline from the Maitai Dam to the Brook Street end, a total length of 8840 m.

The assessment was required to assist NCC in determining the risks to the water supply with regard to requirements for pipe upgrades and/or pipeline duplication.

Services provided

- Desk study of existing records, aerial photographs, geological maps and relevant reports
- Walkover survey, mapping surface and bedrock geology and mapping location of past instability
- Identification and assessment seismic hazard, including fault rupture and ground shaking hazard
- Use of Qualitative Risk Assessment methods to prepare geotechnical risk rating for the pipeline route.



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