



TILSLEY ENGINEERING LTD

Civil, Geotechnical and Structural Consultants

Retaining Wall and Barrier Review

Job # SM28940

To: Lee Walker-Holt

Date: 19 January 2026

In respect of: Retaining Walls and Barriers on Road Reserve

Address: 105 Laingholm Drive, Laingholm Lot: 862 DP: 35362 BCO #:10084766

Scope: Structural Integrity and general state of repair of the existing retaining walls and barriers.

Site inspection: The retaining wall and barriers were assessed on-site for structural integrity and general state of repair. Level used to check the backslope of the wall, horizontal rails sighted for straightness. Concrete driveway edge against the wall checked for signs of movement. Fixings checked to the barrier. The structure was checked for signs of damage or decay.

Findings: The backslope remains compliant. There is no deviation from the horizontal rails. The concrete edge against the wall remains tight with no signs of movement. The barrier connections remain intact. There were no signs of any damage or decay.

Outcome: Based on the site visit and inspection, with no signs of damage or deviation from the walls. The walls and barriers remain structurally sound. No remedial works required.

I, Alireza Gholamhoseini, CPEng # 1030327 am a member of IPENZ and hold the following qualifications: BSc, MSc, PHD, MIEAust, MIPENZ. Tilsley Engineering holds a current policy of Professional Indemnity Insurance no less than \$200,000. Please read the disclaimer on the following page.

Signed by: Alireza Gholamhoseini, on behalf of Tilsley Engineering Ltd.

Alireza Gholamhoseini

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This is a factual report of field investigations (and laboratory testing). The field investigations have been undertaken at discrete locations and no inferences about the nature and continuity of ground conditions away from the investigation location are made.

Furthermore the logs taken are presenting descriptions of the soils and geology based on field observations of the samples recovered in the fieldwork and may not be truly representative of the actual underlying conditions.

Ground Bearing Pressures

NZS 3604 States the Ultimate Bearing capacity is to be 300kPa. However the Definitions (1 April 2007) state the allowable bearing pressure is 100kPa.

Others use the term 'the site should provide an ultimate unfactored bearing capacity of 300kPa or allowable factored bearing capacity of 100kPa for residential type foundations'.