

18 October 2023 Our Ref: 1000016.0911.0.0/Rep2

Permeable Concrete NZ Limited 24 Hoteo Avenue Auckland 2025

Attention: Stuart Girvan

Dear Stuart

27 Dawnhaven Dr, Te Atatu Site Report – Benkelman Beam Testing

Customer's Instructions

We were instructed to complete:

Complete Benkelman beam tests at the above mentioned site as directed by Stuart Girvan on behalf of Permeable Concrete NZ Ltd.

Specifications

None issued.

Date of Procedure

17/10/2023

Location

Benkelman beam pavement deflection tests were taken at existing locations as indicated on the site map.

The attached plan provides indicative locations only and is not to scale. All other information we provide regarding location should be referenced to the asset owner.

Method

TNZ T/1 Method 1977 Benkelman Beam Deflection Measurements.

Material Description

Material descriptions are provided in the attached results.

Results

The following is attached:

Test Results.

Test Remarks

The customer requested we test on top of permeable concrete made up of Gap 10 held together with cement.

The Benkelman Beam test results could be affected by the permeable concrete, as the concrete could act like a slab.

Benkelman Beam

- Estimate of uncertainty for rebound deflections is +3.0 %.
- The axle load is recorded at 8.2 tonnes.

General Remarks

GEOTECHNICS LTD

document1

This report has been prepared for the benefit of Permeable Concrete NZ Limited, with respect to the particular brief given to us and it cannot be relied upon in other contexts or for any other purpose without our prior review and agreement.

The inherent uncertainties of site investigation work, mean the nature and continuity of subsoil away from the test location could vary from the data logged.

Please reproduce this report in full when transmitting to others or including in internal reports.

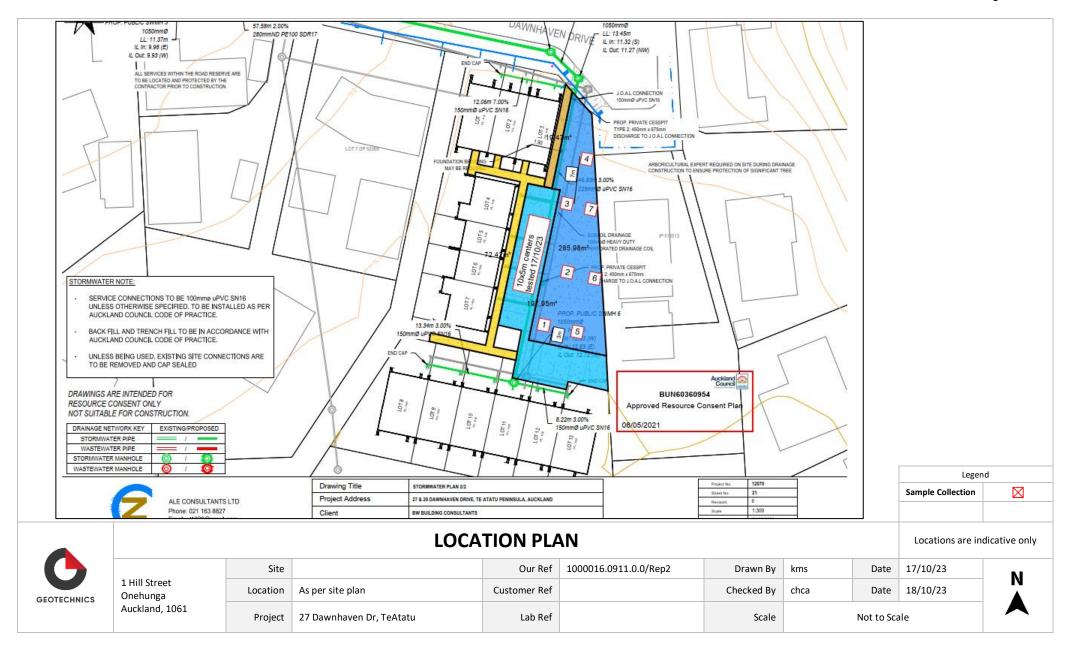
If we can be of any further assistance, feel free to get in touch. Contact details are provided at the bottom of the letterhead page.

Report approved by:	Authorised for Geotechnics by:		
Steven Anderson	Steven Anderson		
Project Director	Project Director		
Toject Director	1 Toject Director		
20-Oct-23			

Geotechnics Ltd 27 Dawnhaven Dr, TeAtatu - Benkelman Beam Testing Permeable Concrete NZ Limited

18 October 2023

Our Ref: 1000016.0911.0.0/Rep2



Test Results – 19th April 2023

			Chainage/ Locations	Wheel Track	Rebound Deflection (mm)	Remarks
Start Time	10.30am		1	L	0.32	Driveway
		_	2	R	0.24	
Conditions	Fine		3	L	0.24	
			4	R	0.26	
Test Surface	Permeable concrete		5	L	0.40	
			6	R	0.28	
Material Condition		7	L	0.20		
	Compacted					
	Dry					
Grid Centres						
Υ	10	(m)				
х	5	(m)				
Temperature	NR	(°C)				
remperature _	1417	(c)				