

Material Testing and Laboratory Services for the Construction Industry

Mr Paul Kleijn
Drapers Civil Contracting Pty Ltd
PO Box 287
Belmont VIC 3216

16th June 2023
Ref : 7189

Dear Paul

**,RE : SUPERVISION OF FILL PLACEMENT
ESTUARY ESTATE II – STAGE 1
Lot 1645**

I write with reference to your request for Geotest Civil Services to provide Level One supervision of the placement of fill to the above project during reinstatement of an excavation undertaken to in in the adjacent road reserve and which impacted Lot 1645.

I confirm that on the 14th September 2023, Geotest Civil Services performed Level One supervision and surveillance by monitoring the level of compaction achieved during the course of the works for placement of fill to reinstate the excavation.

The supervision involved one of our experienced geotechnicians inspecting the stripped and cleared surface prior to fill placement commencing and then monitoring the placement of the fill within the site on the affected Lot.

Fill material for these works were sourced from within the site.

Verification of compliance of all fill was based on the compaction test results which were undertaken as each layer was completed.

The Level One supervision does not include placement of topsoil used to complete landscaping of the project.

Based on the results of our testing, and as far as we have been able to determine, we conclude that the filling placed within the filled area meets or exceeds the requirements of the specification, that is, 95% relative Standard compaction in accordance with Australian Standard 3798 – 2007 and the project specification.

Test results from the testing program are attached.

We trust that this information meets your requirements. Should you have any further queries in regards to the above, please do not hesitate to contact me on telephone 0418 525775.

Yours Sincerely



Rod Bennett
Geotest Civil Services

REPORT OF COMPACTION CONTROL (HILF RAPID METHOD)

Job No.: 7189/23/898

AS 1289 2.1.1, 5.7.1, 5.8.1 RC 316.00		Using Humboldt: 7819		Date field tested : 14/09/23	
Compaction Report Ref. No. 7189/23/898		K Value : 0		Time : 10:30:00	
Project: Estuary Estate II Stage 1- Lot 1645 / Road Reserve fill					
Client : Drapers Civil Contracting Pty Ltd PO Box 287 Belmont VIC 3216					
Material: Clay ex Site		Compactive effort:		Standard	
Sand used: no		Standard count: DS: 2776.5		MS: 404.3	
Layer depth of 175 mm		Test depth of 150 mm		for 60 secs	
Test Lot Bounds NA		to NA		Client Ref:	
Site No.	1	2	3	4	
Location	Lot 1645 / Road Reserve FSL 16m Nth sewer MH 3	Lot 1645 / Road Reserve 0.3m below FSL 15m Nth sewer MH 3	Lot 1645 / Road Reserve 0.6m below FSL 13m Nth sewer MH 3	Lot 1645 / Road Reserve 0.9m below FSL 12m Nth sewer MH 3	
wet density (t/m ³)	2.02	1.96	1.94	1.94	
field mc%	17.4	18.2	19.4	20.6	
dry density (t/m ³)	1.72	1.66	1.62	1.61	
pcwd (t/m ³)	2.07	2.04	2.02	2.04	
omc (%)	13.0	17.0	18.0	19.0	
Oversize material retained on sieve...(mm)	19.0	19.0	19.0	19.0	
% wet oversize	0	0	0	0	
% dry oversize	0	0	0	0	
adjusted pcwd	2.07	2.04	2.02	2.04	
adjusted omc	12.5	17.2	18.0	19.2	
moisture variation (+ wet / - dry of omc)	5.0	1.0	1.5	1.5	
moisture ratio (%)	139.1	105.8	107.8	107.3	
density ratio (%)	98.0	96.5	96.0	95.5	

Tested over period : 14/09/2023 to 18/09/2023

mean moisture ratio	115.0
mean density ratio	96.5

Sampling Method Used :

AS1289.1.2.1 Clause 6.4 – from layers in pavement or earthworks

Notes:



NATA Accredited Testing Facility : Accreditation Number : No 10664
Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: *R Bennett*

R.Bennett

Date: 18/09/2023

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