

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

20th January 2021

Our Reference: 20155:NB871

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING TRIJENA – STAGE 8 (MICKLEHAM)

Please find attached our Report No's 20155/R001 and 2155/R002 which relate to the field density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing was performed in March 2020.

The inspections and testing of the earthworks was undertaken in general accordance with the Level 1 requirements of AS 3798 - Guidelines on Earthworks for Commercial and Residential Developments.

The site inspection and testing was performed by experienced geotechnicians from this office. Any areas that were deemed unsatisfactory were reworked and retested under their supervision. The testing was performed to the relevant Australian Standards and the accompanying test reports carry NATA endorsement. The attached compaction results, which were located randomly throughout the fill profile, are considered to be representative of the bulk fill materials that were placed across the reported allotments by Winslow Constructors during the aforementioned period. The approximate locations of the field density tests can be seen on the attached plan (Figure 1).

We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1







Approximate field density test location



С	ADDED SPLAY AT BOTANICAL, PSMS, ROAD HUMPS & AMENDED NOTES, DRAINAGE	M.T-S	04/03/20
В	AMENDED ANNOTATIONS, LEVELS, HOUSE DRAINS, DRAINAGE & FP CROSSINGS	M.T-S	06/01/20
Α	ISSUED TO COUNCIL	M.T-S	01/11/19
Rev	Amendments	Approved	Date







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Designed W.MAY

M.TOOMER-SMITH

ΞÈ	TRIJENA
	Checked
	JKOEHLER

01/11/19

TRIJENA STAGE 8
 ROAD AND DRAINAGE ROAD LAYOUT PLANS - DETA HUME CITY COUNCIL PGG (MICKLEHAM) PTY LTD
DDEL IMMALA DY

AIL PLAN SHEET 1 PRELIMINARY 307022CR200



COMPACTION ASSESSMENT

Job No 20155 CIVIL GEOTECHNICAL SERVICES Report No 20155/R001 Date Issued 08/07/2020 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by AC Project TRIJENA - STAGE 8 Date tested 23/03/20 Location **MICKLEHAM** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	4	5	6
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.92	1.85	1.84	1.82	1.81	1.86
Field moisture content	%	20.6	24.8	22.2	23.2	22.0	20.0

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6	
Compactive effort	Standard							
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0	
Percent of oversize material	wet	0	0	0	0	0	0	
Peak Converted Wet Density	t/m³	1.94	1.84	1.85	1.81	1.84	1.89	
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-	
Optimum Moisture Content	%	22.5	27.0	24.5	24.0	24.0	22.5	

Moisture Variation From	2.0%	2.0%	2.5%	2.0%	2.0%	2.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	dry

	-						
Density Ratio (R _{HD})	%	99.0	100.5	99.5	100.5	98.5	98.5

Material description

No 1 - 6 Clay Fill

NATA The

AVRLOT HILF V1.10 MAR 13

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Sig

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 20155 **CIVIL GEOTECHNICAL SERVICES** Report No 20155/R002 Date Issued 30/06/2020 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by AC Project TRIJENA - STAGE 8 Date tested 25/03/20 Location **MICKLEHAM** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:27

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		7	8	9	10	11	12
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	ТО	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.91	1.86	1.87	1.89	1.94	1.97
Field moisture content	%	15.2	22.8	15.0	16.8	11.8	15.1

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	11	12
Compactive effort				Star	dard		
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m³	1.99	1.92	1.97	1.98	1.98	1.98
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	17.5	25.0	17.5	19.0	14.5	17.5

Moisture Variation From	2.5%	2.0%	2.5%	2.0%	2.5%	2.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	dry

Density Ratio (R _{HD})	%	96.0	97.5	95.0	95.5	98.0	99.5

Material description

No 7 - 12 Clay Fill

NATA

AVRLOT HILF V1.10 MAR 13

Approved Signatory: Justin Fry