

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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28th October 2019

Our Reference: 19306:NB590

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING CORNERSTONE – STAGE 15 (WYNDHAM VALE)

Please find attached our Report No's 19306/R001 and 19306/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 May 2019.

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).

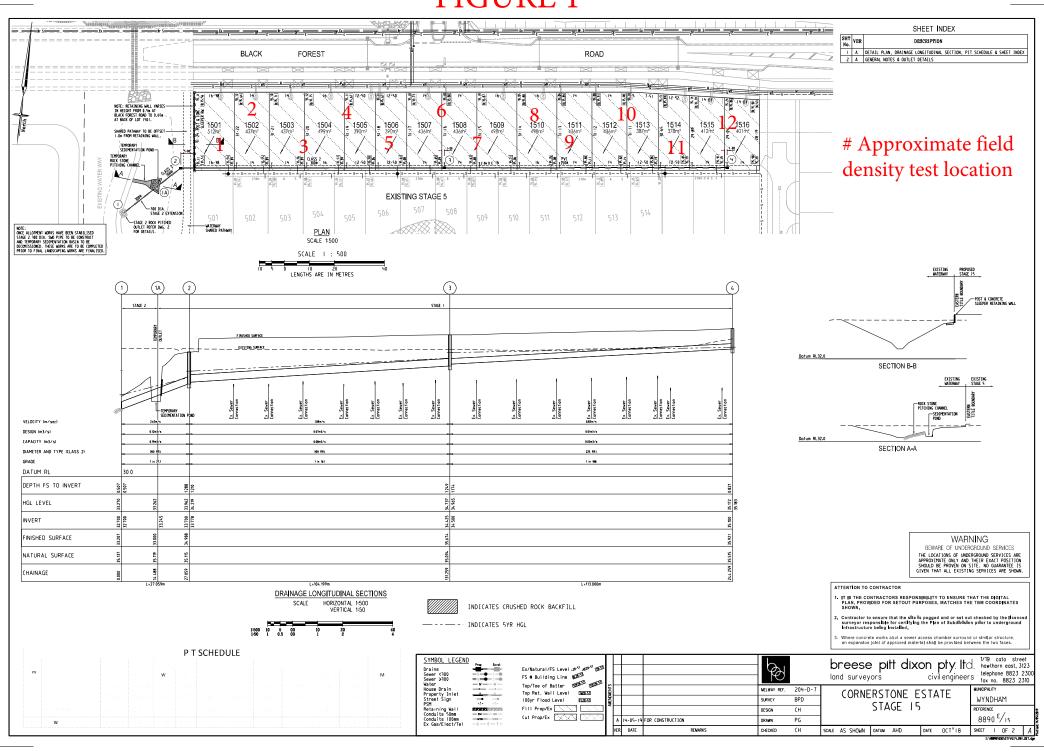
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 19306

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 19306/R001

 Date Issued
 21/05/2019

 Client
 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Tested by
 BGG

 Project
 MAMBOURIN - STAGE 1 (EXTERNAL)
 Date tested
 09/05/19

 Location
 MAMBOURIN
 Checked by
 JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 17:44

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	1.88	1.90	1.87	1.88	1.88	1.88
Field moisture content	%	33.8	30.4	32.6	30.7	34.8	31.4

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
Compactive effort		et 0 0 0 0 0 0					
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	1.90	1.89	1.90	1.91	1.90	1.89
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	34.0	30.5	32.5	30.5	32.5	31.5

Moisture Variation From	0.0%	0.0%	0.0%	0.0%	2.5%	0.0%
Optimum Moisture Content					wet	

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

Material description

No 1 - 6 Clay Fill



Julia J

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 Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 19306 CIVIL GEOTECHNICAL SERVICES Report No 19306/R002 Date Issued 26/10/2019 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by BGG MAMBOURIN - STAGE 1 (EXTERNAL) Date tested 21/05/19 **Project** Location WYNDHAM VALE Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:52

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	1.73	1.71	1.73	1.83	1.83	1.84
Field moisture content	%	29.7	32.5	31.8	30.1	31.2	31.3

Test procedure AS 1289.5.7.1

Test No	·	7	8	9	10	11	12	
Compactive effort		Standard						
Oversize rock retained on sieve	mm	0.0	0.0	0.0	0.0	0.0	0.0	
Percent of oversize material	wet	19	19	19	19	19	19	
Peak Converted Wet Density	t/m³	1.81	1.80	1.81	1.89	1.88	1.91	
Adjusted Peak Converted Wet Density	t/m³	ı	-	-	-	-	-	
Optimum Moisture Content	%	27.5	30.0	30.0	28.5	28.5	29.5	

Moisture Variation From	2.0%	2.5%	2.0%	1.5%	2.5%	2.0%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

	-						
Density Ratio (R _{HD}) %	ó	95.5	95.0	95.5	97.0	97.5	96.5

Material description

No 7 - 12 Clay Fill



AVRLOT HILF V1.10 MAR 13

Julia J

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