

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724 PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

28th May 2024

Our Reference: 23841:NB1871

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING RATHDOWNE – STAGE 31 (WOLLERT)

Please find attached our Report No's 23841/R001 to 23841/R003 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 November 2023.

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

VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Project RATHDOWNE - STAGE 31 Location WOLLERT							23841/R00 21/11/23 AC 13/11/23 JHF	
		<i>Layer thickness</i> 200 mm			CI	<i>Time:</i> 13:28		
EARTHWORKS					200 mm		13:28	
e AS 1289.2.1.1 & 5.8.	1							
		1	2	3	4	5	6	
		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	
epth below FSL	mm	175	175	175	175	175	175	
1							2.02	
·							18.8	
e AS 1289.5.7.1								
		1	2		-	5	6	
		10.0	10.0			40.0	40.0	
							19.0	
							0 2.05	
•		2.04	1.90	1.95	1.91	1.90	2.05	
ure Content	%	22.0	22.0	21.5	18.5	20.0	19.5	
e Variation From		1.5%	0.0%	2.0%	0.5%	0.0%	0.5%	
		dry		dry	dry		dry	
n Moisture Content								
	relate c		il to the dept	h of test and	not to the fu	ll depth of the	e layer	
	epth below FSL lepth ty content e AS 1289.5.7.1 ort etained on sieve size material d Wet Density Converted Wet Density	e AS 1289.2.1.1 & 5.8.1 epth below FSL lepth mm ty t/m³ content % e AS 1289.5.7.1 ort etained on sieve mm size material wet d Wet Density t/m³ Converted Wet Density t/m³	e AS 1289.2.1.1 & 5.8.1 Peter below FSL lepth below FSL lepth mm 175 ty t/m³ 2.02 content % 20.7 e AS 1289.5.7.1 1 ort etained on sieve mm 19.0 size material wet 0 d Wet Density t/m³ 2.04 Converted Wet Density t/m³ -	e AS 1289.2.1.1 & 5.8.1 REFER REFER REFER REFER TO FIGURE 1 Pigure 1 FIGURE 1 Pigure 1 FIGURE 1 Pigure 1 Pigure 1 Pigure 1	e AS 1289.2.1.1 & 5.8.1 1 2 3 REFER TO TO FIGURE 1 REFER TO FIGURE 1 FIGURE 1 Popth below FSL lepth mm 175 175 175 175 ty t/m³ 2.02 1.95 1.93 content % 20.7 21.8 19.4 e AS 1289.5.7.1 1 2 3 cont Stan etained on sieve mm 19.0 19.0 19.0 size material wet 0 0 0 d Wet Density t/m³ 2.04 1.98 1.95 Converted Wet Density t/m³	I Z 3 4 REFER TO FIGURE 1 REFER TO REFER TO TO FIGURE 1 REFER TO REFER TO	e AS 1289.2.1.1 & 5.8.1 1 2 3 4 5 REFER REFER REFER REFER REFER REFER REFER TO pth below FSL FIGURE 1 pth below FSL 0 0 175 175 175 175 175 pth below FSL 0 0 1.88 1.94 lepth mm 175 175 175 175 v t/m³ 2.02 1.95 1.93 1.88 1.94 content % 20.7 21.8 19.4 18.0 19.6 e AS 1289.5.7.1 1 2 3 4 5 ort Standard 19.0 19.0 19.0 19.0 19.0 size material wet 0 0 0 0 0 divel Density t/m³ 2.04 1.98 1.95 1.91 1.96	



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

3 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Project RATHDOWNE - STAGE 31 Location WOLLERT						ate Issued ested by ate tested hecked by	21/11/23 AC 15/11/23 JHF
Feature EARTHWORKS		Layer thickness		200 mm		<i>Time:</i> 07:31	
Test procedure AS 1289.2.1.1 & 5.8.	1						
Test No		7	8	9	10	11	12
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t∕m³	1.78	1.86	1.86	1.96	1.96	1.96
Field moisture content	%	21.1	21.5	18.7	18.3	21.0	21.2
Test procedure AS 1289.5.7.1							
Test No		7	8	9	10	11	12
Compactive effort				Stan		1	
Oversize rock retained on sieve	тт	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	1.86	1.89	1.89	2.03	2.00	1.99
Adjusted Peak Converted Wet Density	<i>t/m</i> ³	-	-	-	-	-	-
Optimum Moisture Content	%	23.0	22.0	21.0	20.0	21.5	23.0
Moisture Variation From		2.0%	0.5%	2.5%	1.5%	0.5%	2.0%
		dry	dry	dry	dry	dry	dry
			· · · · · ·				
Optimum Moisture Content	ralata a	ภาพ เบ เทย รบ		in or test and	not to the fu		e layer
	relate c %	95.5	98.5	98.5	96.5	98.0	98.5



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COMPACTION ASSESSMENT

Rose Avenue, Croydon 3136 lient WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) roject RATHDOWNE - STAGE 31 ocation WOLLERT						ate Issued ested by ate tested hecked by	21/11/23 AC 15/11/23 JHF
Feature EARTHWORKS		Layer thickness		200 mm		<i>Time:</i> 08:33	
Test procedure AS 1289.2.1.1 &	5.8.1						
Test No		13	14	15	16	17	18
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.86	1.85	1.84	1.85	1.84	1.85
Field moisture content	%	22.0	22.5	23.0	21.5	19.4	21.7
Test procedure AS 1289.5.7.1		40		45	40	47	40
		13	14	15 Stor	16 dard	17	18
Compactive effort Oversize rock retained on sieve		19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize material	mm wet	0	0	0	0	0	0
Peak Converted Wet Density	t/m ³	1.89	1.90	1.87	1.91	1.91	1.93
Adjusted Peak Converted Wet Density		1.03	-	-	-	1.31	1.35
Optimum Moisture Content	<i>" """</i>	22.5	24.5	23.5	23.0	21.5	21.5
,							
Moisture Variation From		0.5%	2.0%	0.5%	1.5%	2.0%	0.0%
Optimum Moisture Content		dry	dry	dry	dry	dry	
	ults relate o	only to the so	il to the dept	h of test and	not to the fu	ll depth of the	e layer
density and moisture ratio rest		,					



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