

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

9th November 2020

Our Reference: 20185:NB839

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING 85-109 FARM ROAD – STAGE 2A (WERRIBEE)

Please find attached our Report No's 20185/R001 and 20185/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 commenced in March and was completed in April 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).

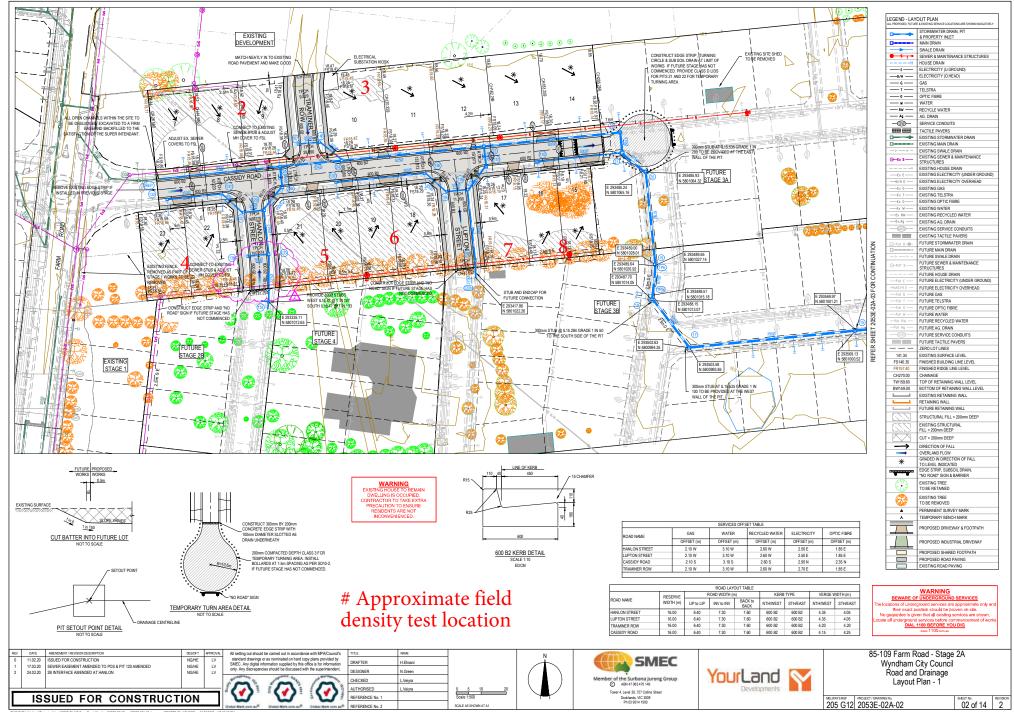
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1



DWG PATH: V:_VaultProjects_Urbani2053E-85-109 Farm Road, Wentbeel2053E-02A/Dwgs/2053E-02A-02.dwg PRINTED BY: NG 12325 on 2403/2020 at 03:05:55 ft



COMPACTION ASSESSMENT

<i>IVIL GEOTECHNICAL SERVICES</i> - 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)								20185 20185/R00 27/04/2020
Client Project Location	WINSLOW CONSTRUC 85-109 FARM ROAD - S WERRIBEE	, , , , , , , , , , , , , , , , , , ,				Tested by Date tested Checked by	BGG 31/03/20 JHF	
Feature	EARTHWORKS		Layer thickness		200 mm		Time	e: 14:11
Test procedu	ıre AS 1289.2.1.1 & 5.8	3. 1						
Test No			1	2	3	4	-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE	1	
	depth below FSL							
Measurement depth mm			175	175	175	175	-	-
Field wet densityt/m³Field moisture content%		2.02 12.2	2.02 11.9	2.02 11.9	2.00 13.4	-	-	
Test No Compactive e	Ire AS 1289.5.7.1		1	2	3 Stan	4 dard	-	-
	retained on sieve	mm	19.0	19.0	19.0	19.0	-	-
Percent of ove	ersize material	wet	0	0	0	0	-	-
Peak Convert	ed Wet Density	t∕m³	2.05	2.05	2.05	2.06	-	-
Adjusted Peal	k Converted Wet Density	t∕m³	-	-	-	-	-	-
	sture Content	%	14.5	14.0	14.0	15.0	-	-
Optimum Moi:				2.00/	2.0%	1.5%	-	
Optimum Mois Moist	ure Variation From		2.0%	2.0%	2.070	1.070		-
Moist	ure Variation From ım Moisture Content		2.0% dry	2.0% dry	dry	dry		

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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES - 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)								20185 20185/R002 27/04/2020
Client Project Location	WINSLOW CONSTRUC 85-109 FARM ROAD - S WERRIBEE					Tested by Date tested Checked by	BGG 01/04/20 JHF	
Feature	EARTHWORKS		Layer thickness		200 mm		Time: 14:33	
Test proced	ure AS 1289.2.1.1 & 5.8.	1						
Test No			5	6	7	8	-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE		
	depth below FSL							
Measurement		mm	175	175	175	175	-	-
Field wet densityt/m³Field moisture content%		2.02 11.8	1.92 12.3	1.92 12.4	1.95 13.2	-	-	
lest procedi	ure AS 1289.5.7.1		5	6	7	8 Idard	-	-
Test No	offort				Stan			
Test No Compactive e		mm	19.0	19.0			-	-
Test No Compactive e Oversize rock	retained on sieve	mm wet	19.0 0	19.0 0	19.0	19.0	-	-
Test No Compactive e Oversize rock Percent of ove	c retained on sieve ersize material	wet	0	0	19.0 0	19.0 0		-
Test No Compactive e Oversize rock Percent of ove Peak Convert	retained on sieve				19.0	19.0	-	-
Test No Compactive e Oversize rock Percent of ove Peak Convert Adjusted Pea	c retained on sieve ersize material ted Wet Density	wet t/m³	0	0	19.0 0	19.0 0	-	-
Test No Compactive e Oversize rock Percent of ove Peak Convert Adjusted Pea Optimum Moi	c retained on sieve ersize material ted Wet Density k Converted Wet Density	wet t/m³ t/m³	0 2.05 -	0 1.95 -	19.0 0 1.95 - 14.5	19.0 0 2.00 -	-	-
Test No Compactive e Oversize rock Percent of ove Peak Convert Adjusted Pea Optimum Moi Moist	c retained on sieve ersize material ted Wet Density k Converted Wet Density isture Content	wet t/m³ t/m³	0 2.05 - 14.0	0 1.95 - 14.5	19.0 0 1.95 -	19.0 0 2.00 - 15.0	-	-

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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

Approved Signatory : Justin Fry