

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

5th March 2021

Our Reference: 21055:NB907

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ROTHWELL – STAGE 19 (TARNEIT)

Please find attached our Report No's 21055/R001 to 21055/R004 which relate to the field 5density testing that was conducted within the filled allotments at the above subdivision. The level 1 inspections and associated field density testing was performed in February 2021.

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).

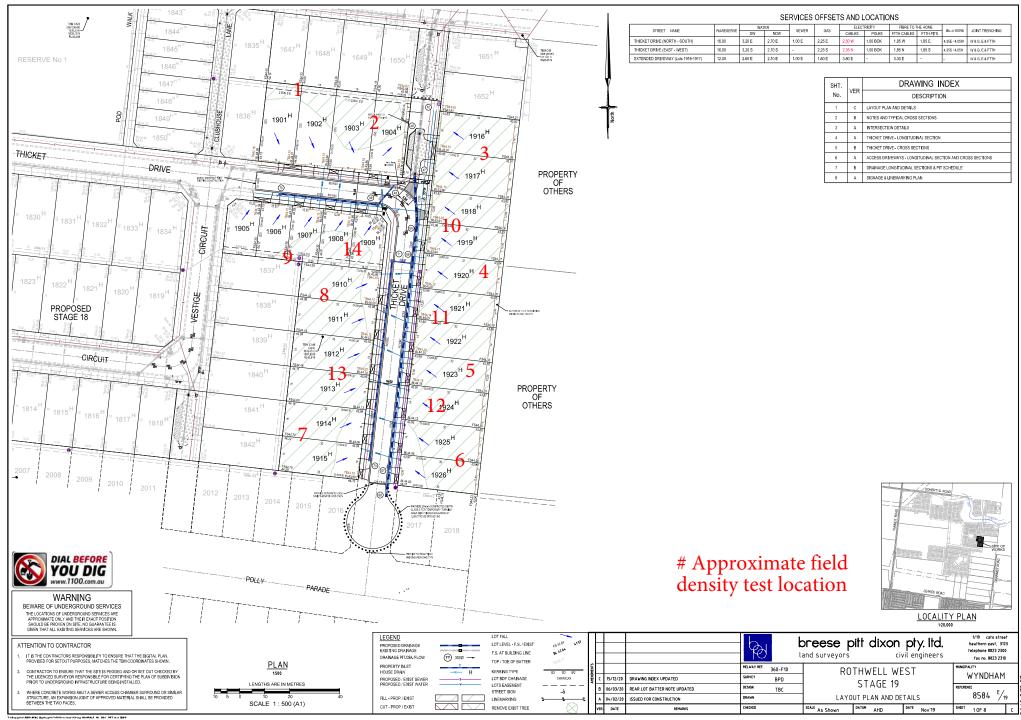
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





IVIL GEOTECHNICAL SERVICES • 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Project ROTHWELL - STAGE 19 Location TARNEIT						Report No Date Issued Tested by Date tested Checked by	21055/R00 11/02/2021 BS 03/02/21 JHF
					Спескей Бу	JHF	
Feature EARTHWORK	S	Layer thickness		200 mr	n	<i>Time:</i> 13:41	
Test procedure AS 1289.2.	1.1 & 5.8.1						
Test No		1	2	3	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL	-						
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.78	1.78	1.75	-	-	-
Test procedure AS 1289.5.7 Test No Compactive effort	/.1	1	2	3 Standa	- rd	-	-
Oversize rock retained on siev	ve mm	19.0	19.0	19.0	-	-	
Percent of oversize material	wet	0	0	0	-	_	-
Peak Converted Wet Density	t/m ³	1.81	1.83	1.81	-	_	-
Adjusted Peak Converted Wei		_	-	-	-	-	-
	%	32.0	33.0	33.0	-	-	-
Optimum Moisture Content							
Optimum Moisture Content		26%	0.0%	0.0%	-	-	-
Optimum Moisture Content Moisture Variation Fro Optimum Moisture Cor		2.5% wet					

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

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CIVIL GEOTECHNICAL SERVICES - 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)							21055 21055/R002 09/02/2021	
Client WINSLOW CONSTRI Project ROTHWELL - STAGE Location TARNEIT	PTY LTD (CA	AMPBELLFIE	Da	sted by ate tested aecked by	BS 04/02/21 JHF			
Feature EARTHWORKS		Layer thickness		200 mm		Time:	13:59	
Test procedure AS 1289.2.1.1 & 5	5.8.1							
Test No		4	5	6	7	8	9	
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	
Approximate depth below FSL								
Measurement depth	mm	175	175	175	175	175	175	
Field wet density Field moisture content	<u>t/m³</u> %	1.77 30.4	1.77 32.9	1.80 32.9	1.79 29.6	1.76 28.9	1.77 28.6	
Test procedure AS 1289.5.7.1		4	5	6 Stan	7 Idard	8	9	
Test No Compactive effort Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0	
Compactive effort Oversize rock retained on sieve Percent of oversize material	wet	0	0	0	0	0	0	
Compactive effort Oversize rock retained on sieve Percent of oversize material								
Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Densit	wet t/m³ ty t/m³	0 1.85 -	0 1.80 -	0 1.85 -	0 1.80 -	0 1.80 -	0 1.80 -	
Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Densit	wet t/m³	0	0	0	0	0	0	
Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Densit	wet t/m³ ty t/m³	0 1.85 - 30.5	0 1.80 - 33.0	0 1.85 - 33.0	0 1.80 - 31.5	0 1.80 - 31.0	0 1.80 - 31.0	
Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Densit Optimum Moisture Content	wet t/m³ ty t/m³	0 1.85 -	0 1.80 -	0 1.85 -	0 1.80 -	0 1.80 -	0 1.80 -	



CIVIL GEOTECHNICAL SERVICES - 8 Rose Avenue, Croydon 3136 Cligate WINSLOW CONSTRUCTORS REV LED (CAMPRELLEIELD)								21055 21055/R00 09/02/2021	
Client Project Location	WINSLOW CONSTRUC ROTHWELL - STAGE 19 TARNEIT	ONSTRUCTORS PTY LTD (CAMPBELLFIELD) STAGE 19					Tested by Date tested Checked by	BS 05/02/21 JHF	
Feature	EARTHWORKS		Layer thickness		200 m	200 mm		<i>Time:</i> 13:31	
Test proced	lure AS 1289.2.1.1 & 5.8.	1							
Test No			10	11	12	-	-	-	
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1				
	depth below FSL								
Measuremen		mm	175	175	175	-	-	-	
Field wet der Field moistur		t/m³ %	1.75 29.7	1.72 33.0	1.75 32.4	-	-	-	
Test proced Test No Compactive e	lure AS 1289.5.7.1		10	11	12 Standa	-	-	-	
	k retained on sieve	mm	19.0	19.0	19.0	-	-		
	versize material	wet	0	0	0	-	_	-	
	ted Wet Density	t/m ³	1.83	1.80	1.80	-	_	-	
	ak Converted Wet Density	t/m³	-	-	-	-	_	-	
I WINDLOU I CC		%	31.5	33.0	32.5	-	-	-	
Optimum Mo									
Optimum Mo Mois	ture Variation From hum Moisture Content		2.0% dry	0.0%	0.0%	-	-	-	

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CIVIL GEOTECHNICAL SERVICES - 8 Rose Avenue, Croydon 3136 Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)								21055 21055/R00 05/03/2021
Project R	OTHWELL - STAGE 1 ARNEIT		· · · · · · · · · · · · · · · · · · ·				Tested by Date tested Checked by	BS 08/02/21 JHF
Feature E	ARTHWORKS		Layer thickness		200 mm		<i>Time:</i> 10:09	
Test procedure	AS 1289.2.1.1 & 5.8	3. 1						
Test No			13	14	-	-	-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate dep								
Measurement de	oth	mm	175	175	-	-	-	-
Field wet density Field moisture co		<u>t/m³</u> %	1.80 25.2	1.76 26.4	-	-		
Test procedure Test No Compactive effor			13	14	- Stand	- Jard	-	-
, Oversize rock reta		mm	19.0	19.0	-	-	-	-
Percent of oversize	ze material	wet	0	0	-	-	-	-
Peak Converted	Net Density	t∕m³	1.85	1.82	-	-	-	-
Adjusted Peak Co	onverted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moistur	e Content	%	27.0	29.0	-	-	-	-
	Variation From		2.0%	2.5%	- [-	-	T -
Moisture	Moisture Content		dry	dry				

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