

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

17th December 2021

Our Reference: 21374:NB1123

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING CORNERSTONE – STAGE 18 (WYNDHAM VALE)

Please find attached our Report No's 21374/R001 to 21374/R005 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 May 2021 and was completed in August 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).

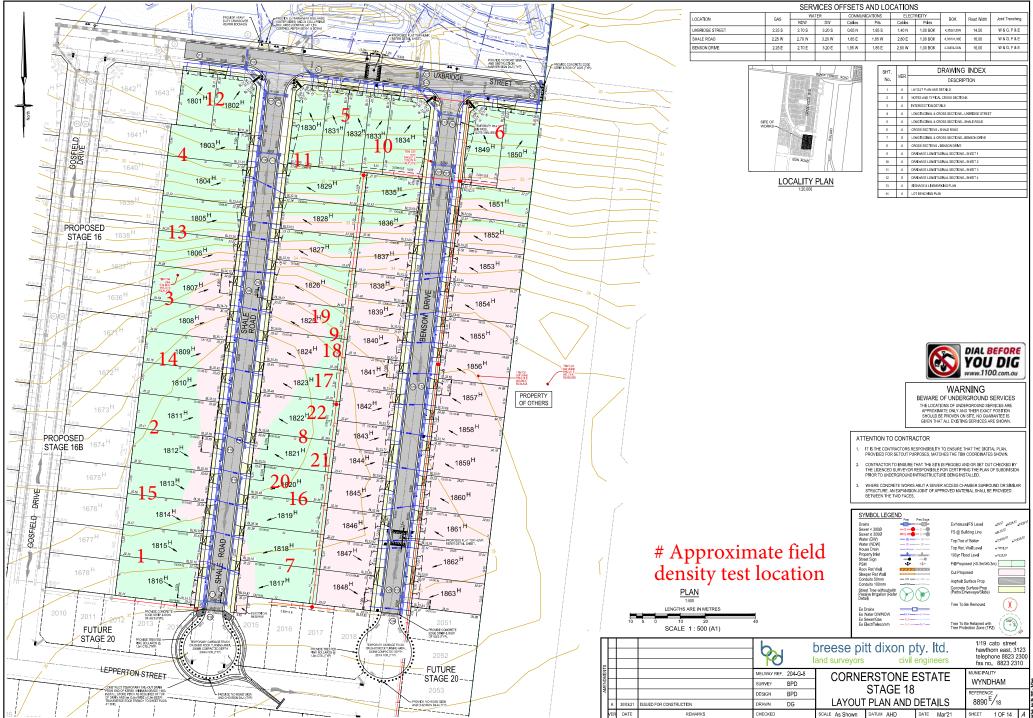
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





	HNICAL SERVICES , Croydon 3136					Da	eport No ate Issued	21374/R00 06/09/2021
Client Project Location	WINSLOW CONSTRUC CORNERSTONE - STAC WERRIBEE	PTY LTD (CA	AMPBELLFIE	Da	ested by ate tested necked by	WS 26/05/21 JHF		
Feature	EARTHWORKS		Lay	er thickness	200	mm	Time:	07:30
-	ıre AS 1289.2.1.1 & 5.8.	.1						
Test No			1	2	3	4	5	6
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
						4	1	4
Measurement	depth	mm	175	175	175	175	175	175
Measurement Field wet dens Field moisture	depth sity content	mm t/m³ %	175 1.67 24.4	175 1.70 22.9	175 1.79 32.1	175 1.96 31.5	175 1.74 27.2	175 1.77 27.7
Approximate of Measurement Field wet dens Field moisture Test procedu Test No Compactive et	depth sity content ire AS 1289.5.7.1	t∕m³	1.67	1.70	1.79	1.96 31.5 4	1.74	1.77
Measurement Field wet dens Field moisture Test procedu Test No Compactive et	depth sity content ire AS 1289.5.7.1	t∕m³	1.67 24.4 1 19.0	1.70 22.9 2 19.0	1.79 32.1 3 Stan 19.0	1.96 31.5 4 dard 19.0	1.74 27.2 5 19.0	1.77 27.7
Measurement Field wet dens Field moisture Test procedu Test No Compactive ei Oversize rock Percent of ove	depth sity content ure AS 1289.5.7.1 ffort retained on sieve ersize material	<u>t/m³</u> %	1.67 24.4 1	1.70 22.9 2	1.79 32.1 3 Stan 19.0 0	1.96 31.5 4 dard	1.74 27.2 5	1.77 27.7 6
Measurement Field wet dens Field moisture Test procedu Test No Compactive ei Oversize rock Percent of ove Peak Converte	depth sity content ure AS 1289.5.7.1 ffort retained on sieve ersize material ed Wet Density	t/m³ % mm wet t/m³	1.67 24.4 1 19.0	1.70 22.9 2 19.0	1.79 32.1 3 Stan 19.0	1.96 31.5 4 dard 19.0	1.74 27.2 5 19.0	1.77 27.7 6 19.0
Measurement Field wet dens Field moisture Test procedu Test No Compactive en Oversize rock Percent of ove Peak Converte Adjusted Peal	depth sity content ure AS 1289.5.7.1 ffort retained on sieve ersize material ed Wet Density k Converted Wet Density	t/m ³ % mm wet t/m ³	1.67 24.4 1 19.0 0 1.75 -	1.70 22.9 2 19.0 0 1.78 -	1.79 32.1 3 Stan 19.0 0 1.84 -	1.96 31.5 4 dard 19.0 0 2.05 -	1.74 27.2 5 19.0 0 1.80 -	1.77 27.7 6 19.0 0 1.81 -
Measurement Field wet dens Field moisture Test procedu Test No Compactive en Oversize rock Percent of ove Peak Converte Adjusted Peal	depth sity content ure AS 1289.5.7.1 ffort retained on sieve ersize material ed Wet Density k Converted Wet Density	t/m³ % mm wet t/m³	1.67 24.4 1 19.0 0	1.70 22.9 2 19.0 0	1.79 32.1 3 Stan 19.0 0	1.96 31.5 4 dard 19.0 0	1.74 27.2 5 19.0 0	1.77 27.7 6 19.0 0
Measurement Field wet dens Field moisture Test procedu Test No Compactive et Oversize rock Percent of ove Peak Converte Adjusted Peah Optimum Mois	depth sity content ure AS 1289.5.7.1 ffort retained on sieve ersize material ed Wet Density k Converted Wet Density	t/m ³ % mm wet t/m ³	1.67 24.4 1 19.0 0 1.75 - 24.0	1.70 22.9 2 19.0 0 1.78 - 21.5	1.79 32.1 3 Stan 19.0 0 1.84 - 34.0	1.96 31.5 4 dard 19.0 0 2.05 - 30.5	1.74 27.2 5 19.0 0 1.80 - 29.5	1.77 27.7 6 19.0 0 1.81 -
Measurement Field wet dens Field moisture Test procedu Test No Compactive en Oversize rock Percent of ove Peak Converte Adjusted Peah Optimum Mois	depth sity content ure AS 1289.5.7.1 ffort retained on sieve ersize material ed Wet Density & Converted Wet Density sture Content	t/m ³ % mm wet t/m ³	1.67 24.4 1 19.0 0 1.75 -	1.70 22.9 2 19.0 0 1.78 -	1.79 32.1 3 Stan 19.0 0 1.84 -	1.96 31.5 4 dard 19.0 0 2.05 -	1.74 27.2 5 19.0 0 1.80 -	1.77 27.7 6 19.0 0 1.81 - 30.0

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Project (WINSLOW CONSTRUCTORS I CORNERSTONE - STAGE 18 WERRIBEE			MPBELLFIE	L	Tested by Date tested Checked by	WS 27/05/21 JHF	
Feature I	EARTHWORKS		Lay	er thickness	200	mm	Time	e: 07:15
Test procedure	e AS 1289.2.1.1 & 5.8.	1						
Test No			7	8	9	10	-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE		
Approximate de								
Measurement d		mm	175	175	175	175	-	-
Field wet densit Field moisture c		t/m³ %	1.80 29.4	1.82 26.6	1.89 25.0	1.81 27.9	-	-
Test No Compactive effo	e AS 1289.5.7.1		7	8	9 Star	10 dard	-	-
	etained on sieve	mm	19.0	19.0	19.0	19.0	-	-
Percent of overs		wet	0	0	0	0	_	-
Peak Converted		t/m³	1.81	1.84	1.89	1.86	-	-
	Converted Wet Density	t/m³	_		-	-	-	-
Adjusted Peak (%	31.5	29.5	26.5	29.5	-	-
							-	
Optimum Moistu			4 50/		4 50/			
Optimum Moistu Moistur	e Variation From		1.5%	2.5%	1.5%	1.5%	-	-
Optimum Moistu Moistur	e Variation From n Moisture Content		1.5% dry	2.5% dry	1.5% dry	1.5% dry	-	-

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NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing



	HNICAL SERVICES e, Croydon 3136					Re Da	b No eport No ate Issued	21374 21374/R00 06/09/2021
Client Project Location	<i>oject</i> CORNERSTONE - STAGE 18			AMPBELLFIE	Da	ested by ate tested necked by	BS 28/05/21 JHF	
Feature	EARTHWORKS		Lay	er thickness	200	mm	Time:	12:15
Test procedı	ıre AS 1289.2.1.1 & 5.8.	1					-	
Test No			11	12	13	14	15	16
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 c	depth below FSL							
Measurement	depth	тт	175	175	175	175	175	175
Field wet dens Field moisture	•	t/m³ %	1.84 25.4	1.84 31.2	1.74 31.6	1.81 27.7	1.81 27.1	1.84 27.3
I Det hronodi	ure AS 1289.5.7.1		11	12	13	14	15	16
Test No	ffort				Stan	dard	-	•
Test No Compactive e		mm			1	dard 19.0	19.0	19.0
Test No Compactive e Oversize rock	retained on sieve	mm wet	19.0	19.0	19.0	19.0	19.0 0	19.0 0
Test No Compactive e Oversize rock Percent of ove					1		19.0 0 1.87	19.0 0 1.87
Test No Compactive e Oversize rock Percent of ove Peak Converte	retained on sieve ersize material	wet	19.0 0	19.0 0	19.0 0	19.0 0	0	0
Test No Compactive e Oversize rock Percent of ove Peak Converte	retained on sieve ersize material ed Wet Density k Converted Wet Density	wet t/m³	19.0 0	19.0 0	19.0 0	19.0 0	0	0
Test No Compactive e Oversize rock Percent of ove Peak Converte Adjusted Peak Optimum Mois Moiste	retained on sieve ersize material ed Wet Density k Converted Wet Density sture Content ure Variation From	wet t/m³ t/m³	19.0 0 1.89 - 27.0 1.5%	19.0 0 1.87 - 34.0 2.5%	19.0 0 1.79 - 34.0 2.5%	19.0 0 1.86 -	0 1.87 -	0 1.87 -
Test No Compactive e Oversize rock Percent of ove Peak Converte Adjusted Peak Optimum Mois Moiste	retained on sieve ersize material ed Wet Density k Converted Wet Density sture Content	wet t/m³ t/m³	19.0 0 1.89 - 27.0	19.0 0 1.87 - 34.0	19.0 0 1.79 - 34.0	19.0 0 1.86 - 27.0	0 1.87 - 25.0	0 1.87 - 25.0







INSLOW CONSTRUC DRNERSTONE - STA YNDHAM VALE			er thickness	נטב		Tested by Date tested Checked by	BGG 30/07/21 JHF
ARTHWORKS		Lay	or thickness				
				200 n	nm	Time	e: 12:05
AS 1289.2.1.1 & 5.8	8.1						
		17	18	19	-	-	-
		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
h below FSL							
vth	mm				-	-	-
					-	-	-
		17	18	19 Stand	- ard	-	-
ained on sieve	mm	19.0	19.0	19.0	-	-	-
e material	wet	0	0	0	-	-	-
Vet Density	t∕m³	2.03	2.10	1.82	-	-	-
	t∕m³	-	-	-	-	-	-
Content	%	20.5	16.0	19.5	-	-	-
Variation From		2.0%	0.5%	2.0%		_	
Moisture Content		dry	dry	dry	-		
<u> </u>	%	95.0	95.5	100.0		-	T -
	h below FSL oth ntent AS 1289.5.7.1 nined on sieve re material Vet Density onverted Wet Density onverted Wet Density onverted Wet Density	mm t/m³ intent % AS 1289.5.7.1 ained on sieve mm re material wet Vet Density t/m³ onverted Wet Density t/m³ e Content %	17REFER TO FIGURE 1h below FSLothmm175t/m³1.92ntent%22.5AS 1289.5.7.117ained on sievemm19.0re materialwet0Vet Densityt/m³-a Content%20.5Variation From Moisture Content2.0% dry	17 18 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 h below FSL	17 18 19 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 h below FSL - - - h th mm 175 175 175 h thent % 22.5 15.8 17.7 AS 1289.5.7.1 - - - - h thent wet 0 0 0 0	17 18 19 - REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 h below FSL - - - $hbelow FSL$ - <td>17 18 19 - - REFER TO FIGURE 1 I h below FSL - - - - th mm 175 175 - - th mm 175 175 - - th mm 175 175 - - thent % 22.5 15.8 17.7 - - AS 1289.5.7.1 17 18 19 - - - wined on sieve mm 19.0 19.0 19.0 - - wet 0 0 0 - - - - wet Density t/m³ - - - - - - o Content % 20.5 16.0 19.5 - - </td>	17 18 19 - - REFER TO FIGURE 1 I h below FSL - - - - th mm 175 175 - - th mm 175 175 - - th mm 175 175 - - thent % 22.5 15.8 17.7 - - AS 1289.5.7.1 17 18 19 - - - wined on sieve mm 19.0 19.0 19.0 - - wet 0 0 0 - - - - wet Density t/m³ - - - - - - o Content % 20.5 16.0 19.5 - -



NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing



Project (Croydon 3136						Job No Report Date Is	No sued	21374 21374/R00 28/08/2021
Location	WINSLOW CONSTRUC CORNERSTONE - STA WYNDHAM VALE		PTY LTD (CA	Tested by Date tested Checked by		BGG 02/08/21 JHF			
Feature	EARTHWORKS		Lay	er thickness	200 m	IM		Time	: 08:55
Test procedure	e AS 1289.2.1.1 & 5.8.	.1							
Test No			20	21	22	-		-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate de									
Measurement d		mm	175	175	175	-		-	-
Field wet densit		<u>t/m³</u> %	1.97 17.8	1.99 18.2	1.95 17.1	-		-	-
Test procedure Test No Compactive effo	e AS 1289.5.7.1		20	21	22 Standa	-		-	-
	etained on sieve	mm	19.0	19.0	19.0	-		_	-
Percent of overs		wet	0	0	0	-		-	-
Peak Converted		t/m ³	2.05	2.06	2.04	-		-	-
	Converted Wet Density	t/m³	-	-	-	-		-	-
Optimum Moist		%	19.0	18.5	18.5	-		-	-
Moistur	e Variation From		1.0%	0.5%	1.5%			_	I -
	Moisture Content		dry	dry	dry				
	(R _{HD})	%	96.0	96.5	95.5	-		-	-

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