

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

11<sup>th</sup> August 2020

Our Reference: 20220:NB786

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

#### RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ASPIRE – STAGE 24 (PLUMPTON)

Please find attached our Report No's 20220/R001 to 20220//R006 which relate to the field density testing that was conducted within the filled allotments of the above subdivision. The level 1 inspections and associated field density testing commenced in June 2020 and was completed in July 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).

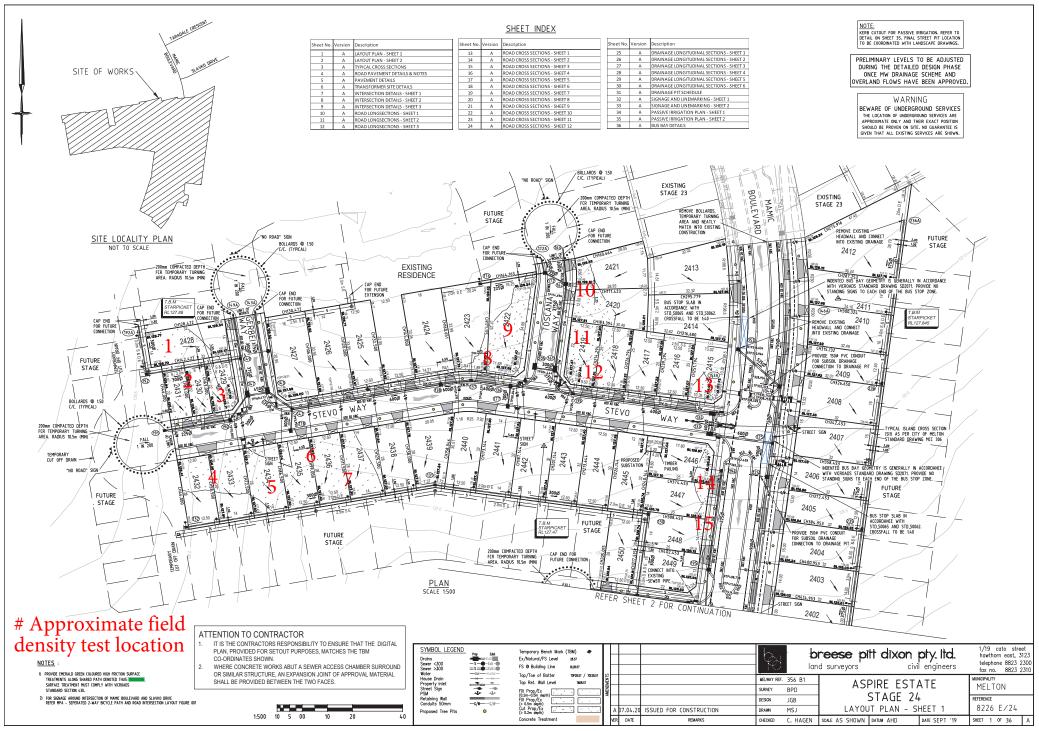
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

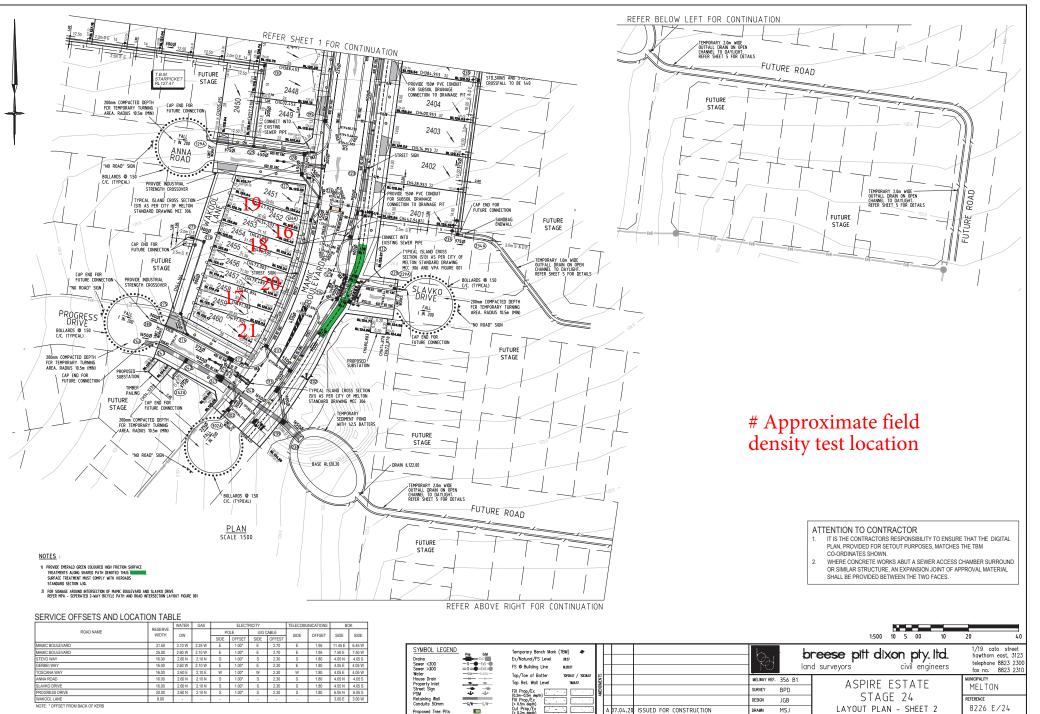
Civil Geotechnical Services

Nick Brock

# FIGURE 1 (1 of 2)



## FIGURE 1 (2 of 2)



Threshold Treatmen

VER. DATE

REMARKS

CHECKED

C. HAGEN SCALE AS SHOWN DATUM AHD

DATE SEPT '19

SHEET 2 OF 36 A



8 Rose Avenue, Croydon 3136	S				Re Da	b No eport No ate Issued	20220 20220/R00 12/05/2020
Client WINSLOW CONS Project ASPIRE - STAGE Location PLUMPTON	>TY LTD (CA	AMPBELLFIE	Da	ested by ate tested necked by	AM 22/04/20 JHF		
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	09:18
Test procedure 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
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density Field moisture content	<u>t/m³</u> %	1.92 36.1	1.94 32.1	1.87 31.0	1.87 34.2	1.92 30.6	1.91 30.3
Test procedure AS 1289.5.7.1 Test No Compactive effort		1	2	3 Stan	4 dard	5	6
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	1.95	2.04	1.90	1.95	1.95	1.94
Adjusted Peak Converted Wet De		-	-	-	-	-	-
Optimum Moisture Content	%	34.0	30.0	28.5	31.5	33.0	33.0
·		2.0%	2.0%	2.5%	2.5%	2.5%	2.5%
Moisture Variation From Optimum Moisture Conten	nt	2.0% wet	2.0% wet	2.5% wet	2.5% wet	2.5% dry	2.5% dry

Jutin 0



Client WINSLOW CONSTRU						Job No Report No Date Issued	
Client WINSLOW CONSTRUCTORS I Project ASPIRE - STAGE 24 Location PLUMPTON		PTY LTD (CA	MPBELLFIE		Tested by Date tested Checked by	AM 23/04/20 JHF	
Feature EARTHWORKS		Lay	er thickness	200	nm	Tim	e: 13:58
Test procedure AS 1289.2.1.1 & 5.	8.1						
Test No		7	8	9	-	-	-
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 Field moisture content	t/m³ %	1.79 29.9	1.80 27.8	1.81 29.0	-	-	
Test procedure AS 1289.5.7.1 Test No Compactive effort		7	8	9 Stano	-	-	-
Oversize rock retained on sieve	mm	19.0	19.0	19.0	-	-	-
Percent of oversize material	wet	0	0	0	-	-	-
Peak Converted Wet Density	t/m³	1.82	1.83	1.84	-	-	-
Adjusted Peak Converted Wet Density		-	-	-	-	-	-
Optimum Moisture Content	%	32.5	30.5	31.5	-	-	-
Moisture Variation From		2.5%	2.5%	2.5%		-	-
		dry	dry	dry			
Optimum Moisture Content							

Jutin 2



IPBELLFIELD) Thickness Thickness TO	200 mm	Dat Che	e tested ecked by Time:	AM 23/04/20 JHF 15:01
11 REFER TO FIGURE 1				•
REFER TO FIGURE 1	-	-	-	-
REFER TO FIGURE 1	<u>.</u>	-	-	-
TO FIGURE 1				
175				
175				
	-	-	-	-
1.79 28.0	-	-	-	-
11	- Standar		-	-
19.0	- 51811081	<u>u</u>	-	-
0	-	-	-	-
1.77	-	-	-	-
-	-	-	-	-
30.5	-	-	-	-
2.5%	_	_		
	-	-	-	_
101.0	-	_		-
101.0	-		-	
2.5% dry 101.0				



8 Rose Avenue, Cro	-					Re Da	b No eport No ate Issued	20220 20220/R004 12/05/2020
ClientWINSLOW CONSTRUCTORS IProjectASPIRE - STAGE 24LocationPLUMPTON			>TY LTD (CA	AMPBELLFIE	Da	sted by ate tested aecked by	AM 24/04/20 JHF	
Feature EA	RTHWORKS		Lay	er thickness	200	mm	Time:	13:35
	AS 1289.2.1.1 & 5.8.	1						
Test No			12	13	14	15	16	17
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 deptl	h below FSL							
Measurement dep	th	mm	175	175	175	175	175	175
Field wet density		t/m³ %	1.71 29.7	1.73	1.69	1.71	1.72	1.64
Test procedure A Test No Compactive effort	AS 1289.5.7.1		12	13	14 Stan	15	16	17
Oversize rock reta	ined on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
Percent of oversize		wet	0	0	0	0	0	0
Peak Converted W		t/m <sup>3</sup>	1.69	1.76	1.72	1.74	1.75	1.67
	nverted Wet Density	t/m³	-	-	-	-	-	-
AUUSIEU FEAK UO		%	31.5	29.0	31.0	29.0	30.5	31.5
Optimum Moisture								
Optimum Moisture Moisture	Variation From		2.0%	2.0%	2.5%	2.0%	2.5%	2.0%
Optimum Moisture Moisture	/ariation From loisture Content		2.0% dry	2.0% dry	2.5% dry	2.0% wet	2.5% dry	2.0% dry

Jutin 5



8 Rose Avenu	<b>HNICAL SERVICES</b> e, Croydon 3136						Job No Report No Date Issued	
Client WINSLOW CONSTRUCTORS F Project ASPIRE - STAGE 24 Location PLUMPTON			PTY LTD (CA	AMPBELLFIE		Tested by Date tested Checked by		
Feature	EARTHWORKS		Lay	er thickness	200 r	nm	Tir	me: 12:30
-	lure AS 1289.2.1.1 & 5.8	.1						
Test No			17	18	19	-	-	-
Location			REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
	depth below FSL							
Measuremen		тт	175	175	175	-	-	-
Field wet den Field moistur		<u>t/m³</u> %	1.85 31.9	1.91 33.8	1.85 31.1	-	-	-
Test proced	luro 1980 5 7 1							
Test No	lure AS 1289.5.7.1		17	18	19 Stand	- dard	-	-
Test No Compactive e		mm	17	18	19 Stanc 19.0		-	
Test No Compactive e Oversize rock	effort	mm wet			Stand			
Test No Compactive e Oversize rock Percent of ov	effort k retained on sieve		19.0	19.0	Stand 19.0	dard -		
Test No Compactive e Oversize rock Percent of ov Peak Conver	effort k retained on sieve versize material	wet	19.0 0	19.0 0	Stand 19.0 0	dard - -		
Test No Compactive e Oversize rock Percent of ov Peak Conver Adjusted Pea	effort k retained on sieve versize material ted Wet Density	wet t/m³	19.0 0	19.0 0	Stand 19.0 0	dard - - -	-	
Test No Compactive e Oversize rock Percent of ov Peak Conver Adjusted Pea Optimum Mo	effort k retained on sieve versize material ted Wet Density ak Converted Wet Density	wet t/m³ t/m³	19.0 0 1.88 -	19.0 0 1.92 -	Stand 19.0 0 1.91 -	dard - - - -	- - - - -	
Test No Compactive e Oversize rock Percent of ov Peak Conver Adjusted Pea Optimum Mo	effort k retained on sieve versize material ted Wet Density ak Converted Wet Density isture Content	wet t/m³ t/m³	19.0 0 1.88 - 30.0	19.0 0 1.92 - 31.0	Stand 19.0 0 1.91 - 28.5	dard - - - -	- - - - -	

F Jutin



	TODO					Job No Report No Date Issued	
Client WINSLOW CONSTRUCT Project ASPIRE - STAGE 24 Location PLUMPTON	STYLID (CA	AMPBELLFIEL		Tested by Date tested Checked by	AM 29/04/20 JHF		
Feature EARTHWORKS		Lay	er thickness	200	mm	Tim	e: 13:00
Test procedure AS 1289.2.1.1 & 5.8.	1						
Test No		20	21	-	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1				
Approximate depth below FSL							
Measurement depth	тт	175	175	-	-	-	-
Field wet density Field moisture content	<u>t/m³</u> %	1.80 27.2	1.78 21.2	-	-	-	-
Test procedure AS 1289.5.7.1 Test No		20	21	- Stano	-	-	-
Compactive effort Oversize rock retained on sieve	mm	19.0	19.0	Stand	Jaiu -	-	
Percent of oversize material	wet	0	0				
Peak Converted Wet Density	t/m <sup>3</sup>	1.81	1.79	-	_	-	-
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	_	_	-	-
Optimum Moisture Content	%	25.0	23.0	-	-	-	-
Moisture Variation From		2.0%	2.0%				<b>T</b> -
Optimum Moisture Content		wet	wet				
			-				
Density Ratio (R <sub>HD</sub> )	%	99.0	99.0	-	-	-	-