

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

13th April 2022

Our Reference: 22141:NB1209

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING REDSTONE – STAGE 5A (SUNBURY)

Please find attached our Report No's 22141/R001 and 22141/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 was performed in April 2022.

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).

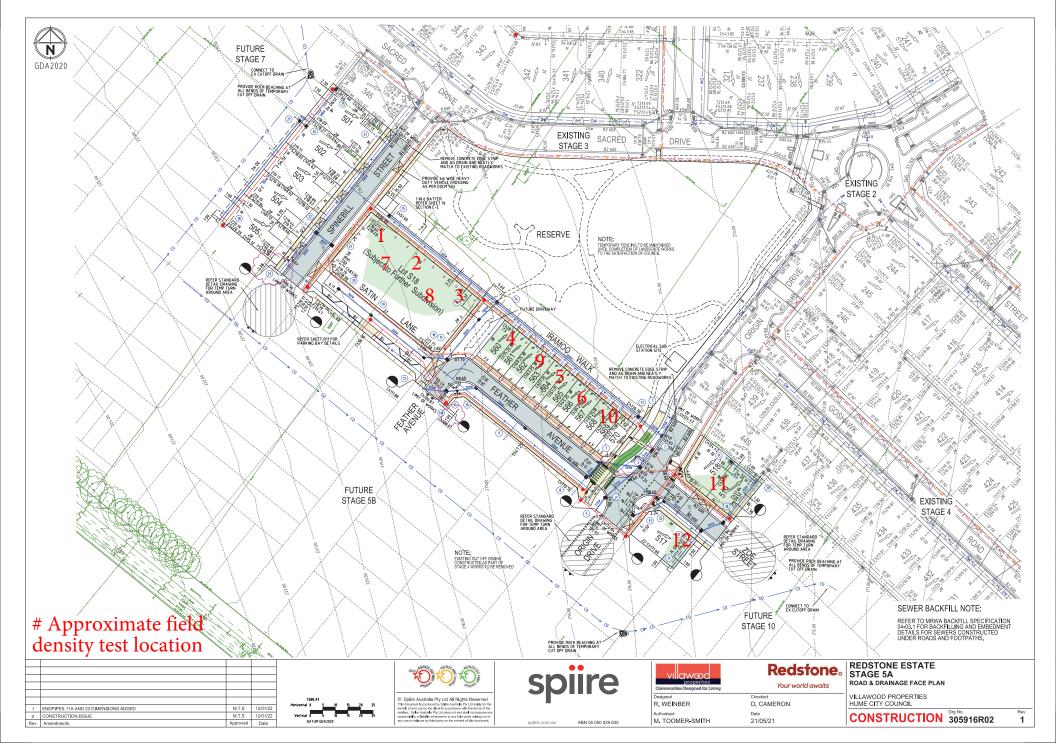
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





COMPACTION ASSESSMENT

/IL GEOTECHNICAL SERVIC 8 Rose Avenue, Croydon 3136 Client WINSLOW CO	Re Da	b No eport No ate Issued sted by	22141 22141/R00 ² 13/04/2022 AM				
Project REDSTONE ES	Da	ate tested aecked by	06/04/22 JHF				
eature EARTHWORKS		Lay	er thickness	200 mm		<i>Time:</i> 09:26	
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> %	1.98 21.1	1.98 27.0	1.96 20.5	1.97 21.9	1.98 25.5	1.97 27.3
Test procedure AS 1289.5.7 Test No Compactive effort	. 1	1	2	3 Star	4 dard	5	6
Oversize rock retained on sieve	e 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	2.03	2.00	2.02	2.00	2.03	2.07
Adjusted Peak Converted Wet Density t/m ³		-	-	-	-	-	-
Optimum Moisture Content	%	23.5	30.0	23.0	24.5	28.0	28.5
Moisture Variation Fro.	m	2.5%	2.5%	2.5%	2.5%	2.5%	1.0%
Optimum Moisture Con		dry	dry	dry	dry	dry	dry
density and moisture rat		, <u>,</u>	, <u>,</u>				
Density Ratio(R _{HD})	%	97.5	99.0	97.0	98.5	97.5	95.0
<i>Material description</i> No 1 - 6 Clay Fill							

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Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

8 Rose Avenue, Croydon 3136								13/04/2022	
Client	WINSLOW CONSTRUC			MPBELLFIE	ELD)		ested by	AM 07/04/22	
Project	REDSTONE ESTATE - S	TAGE	5A			_	ate tested		
Location	SUNBURY				C	Checked by JHF			
Feature	eature EARTHWORKS			Layer thickness		200 mm		<i>Time:</i> 16:30	
Test proce	dure AS 1289.2.1.1 & 5.8.	1							
Test No			7	8	9	10	11	12	
Location									
			REFER	REFER	REFER	REFER	REFER	REFER	
			то	то	то	то	то	то	
			FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE	
	e depth below FSL								
Measureme	•	mm	175	175	175	175	175	175	
Field wet de		t∕m³	1.78	1.77	1.78	1.78	1.71	1.73	
Field moistu	ire content	%	17.7	19.8	19.4	24.0	17.0	19.8	
Test proce	dure AS 1289.5.7.1	_							
Test No			7	8	9	10	11	12	
Compactive	effort	• <u> </u>	Standard						
Oversize roo	ck retained on sieve	тт	19.0	19.0	19.0	19.0	19.0	19.0	
	oversize material	wet	0	0	0	0	0	0	
	erted Wet Density	t∕m³	1.78	1.83	1.97	1.78	1.77	1.79	
-	eak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Me	oisture Content	%	20.0	22.0	22.0	25.0	19.0	21.0	
Moi	isture Variation From		2.5%	2.0%	2.5%	1.5%	2.5%	1.5%	
Optimum Moisture Content		dry	dry	dry	dry	dry	dry		
densi	ty and moisture ratio results I	relate c	only to the so	il to the deptl	n of test and	not to the fu	II depth of the	e layer	
	tio (R _{HD})	%	100.0	97.0	90.5	100.0	96.5	96.5	

No 7 - 12 Clay Fill



NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry