

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

13th March 2024

Our Reference: 23445:NB1784 (Rev.1)

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

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

Please find attached our Report No's 23445/R001 to 23445/R003 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 2023 and was completed in June 2023.

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).

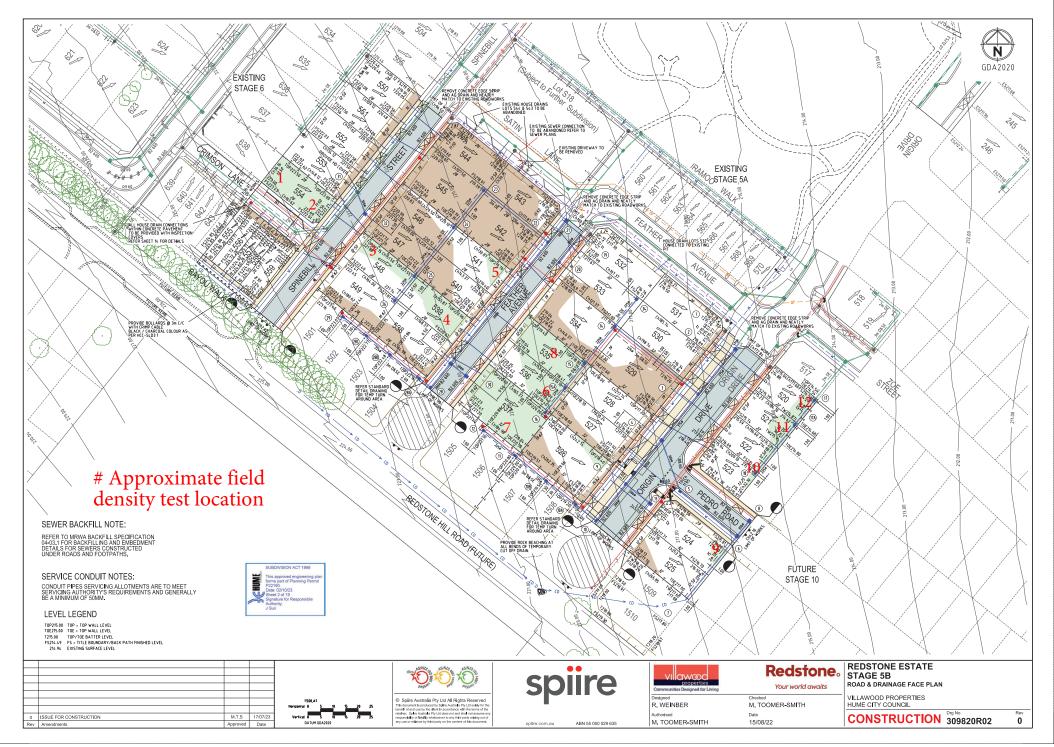
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





COMPACTION ASSESSMENT

8 Rose Avenı Client Project Location	CHNICAL SERVICES Ie, Croydon 3136 WINSLOW CONSTRUC REDSTONE ESTATE - S SUNBURY		,	AMPBELLFIE	ELD)	Da Te Da	eport No ate Issued ested by ate tested hecked by	23445/R00 08/06/2023 AM 29/05/23 JHF
Feature	EARTHWORKS		Lay	er thickness	200	mm	Time:	10:03
Tost prococ	lure AS 1289.2.1.1 & 5.8	1						
Test No	1010 AO 1203.2.1.1 & 0.0	. /	1	2	3	4	5	6
Location				-	5		<u> </u>	<u> </u>
LUCALIUN			REFER	REFER	REFER	REFER	REFER	REFER
			TO	TO	TO	TO	TO	TO
			FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1
			I IGURE I	I GURE I	I GURE I	I GURE I	I IGURE I	I IGURE I
Annrovimeto	depth below FSL							
Measuremer		mm	175	175	175	175	175	175
Field wet der		t/m ³	1.86	1.87	1.84	1.86	1.89	1.90
Field moistur		<u> </u>	24.3	30.9	27.2	26.3	27.0	29.6
	e coment	70	24.0	00.0	21.2	20.0	21.0	20.0
Test proced	lure AS 1289.5.7.1							
Test No			1	2	3	4	5	6
Compactive	effort		•	_	Stan		0	Ű
	k retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	19.0
	versize material	wet	0	0	0	0	0	0
	rted Wet Density	t/m ³	1.91	1.90	1.89	1.90	1.91	1.91
	ak Converted Wet Density	t/m³	-	-	-	-	-	-
,	isture Content	%	24.0	34.0	30.0	29.0	27.5	32.0
		70	27.0	J - 1.0	50.0	20.0	21.5	52.0
Mois	ture Variation From		0.0%	2.5%	2.5%	2.5%	0.5%	2.5%
Optim	num Moisture Content			dry	dry	dry	dry	dry
•	y and moisture ratio results	relate o	only to the so					
			-	-			-	-
Density Rat		%	97.5	98.5	97.5	97.5	99.0	99.0



Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Feature E			5B	AMPBELLFI	ELD)		Tested by Date tested Checked by	AM 31/05/23 JHF
	ARTHWORKS		Lay	er thickness	200	mm	Time	: 10:06
•	e 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 de	oth below FSL							
Measurement de		mm	175	175	175	-	-	-
Field wet densit		t/m³	1.85	1.86	1.89	-	-	-
Field moisture c		%	29.3	29.9	27.2	-	-	-
Test procedure Test No	AS 1289.5.7.1		7	8	9			
Compactive effo	t		,	0	9 Stand	- dord		
Oversize rock re		mm	19.0	19.0	19.0	-	-	-
Percent of overs		wet	0	0	0			
Peak Converted		t/m ³	1.92	1.93	1.93			
	Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moistu		%	32.0	31.5	29.0	-	-	-
<u>.</u>					R		I	
110:01	Variation From		2 E0/	1.5%	2.0%			
	e Variation From Moisture Content		2.5% dry			-		-
	id moisture ratio results	relate r		dry il to the dept	dry h of test and r	not to the	 a full denth of th	
-			-	-	98.0			
Density Ratio	(R _{HD})	%	96.5	96.0	98.0	-	-	<u> </u>
Material descrip No 7 - 9	tion Clay Fill							



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COMPACTION ASSESSMENT

	CHNICAL SERVICES nue, Croydon 3136			Job No Report No Date Issued	23445 23445/R003 15/06/2023
Client	WINSLOW CONSTRUCTOR	RS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	REDSTONE ESTATE - STA	GE 5B		Date tested	01/06/23
Location	SUNBURY			Checked by	JHF
Feature	EARTHWORKS	Layer thickness	200 mm	Time	e: 12:50

Test procedure 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			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t∕m³	1.89	1.84	1.91	-	-	-
Field moisture content	%	26.2	27.9	28.0	-	-	-

Test procedure AS 1289.5.7.1

Test No		10	11	12	-	-	-
Compactive effort	Standard						
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	1.95	1.88	1.99	-	-	-
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	27.5	30.0	29.0	-	-	-

Moisture Variation From Optimum Moisture Content		1.5% dry	2.0% dry	1.0% dry					
density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer									
density and moisture ratio resu Density Ratio (R _{HD})	ults relate or %	nly to the so 97.0	il to the dept 98.0	h of test and 96.0	not to the ful	ll depth of the	e layer		

Material description

No 10 - 12 Clay Fill



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

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