

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

1<sup>st</sup> September 2022

Our Reference: 21714:NB1339

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

#### RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING SEVENTH BEND – STAGE 17 (MELTON SOUTH)

Please find attached our Report No's 21714/R001 and 21714/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 October 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).

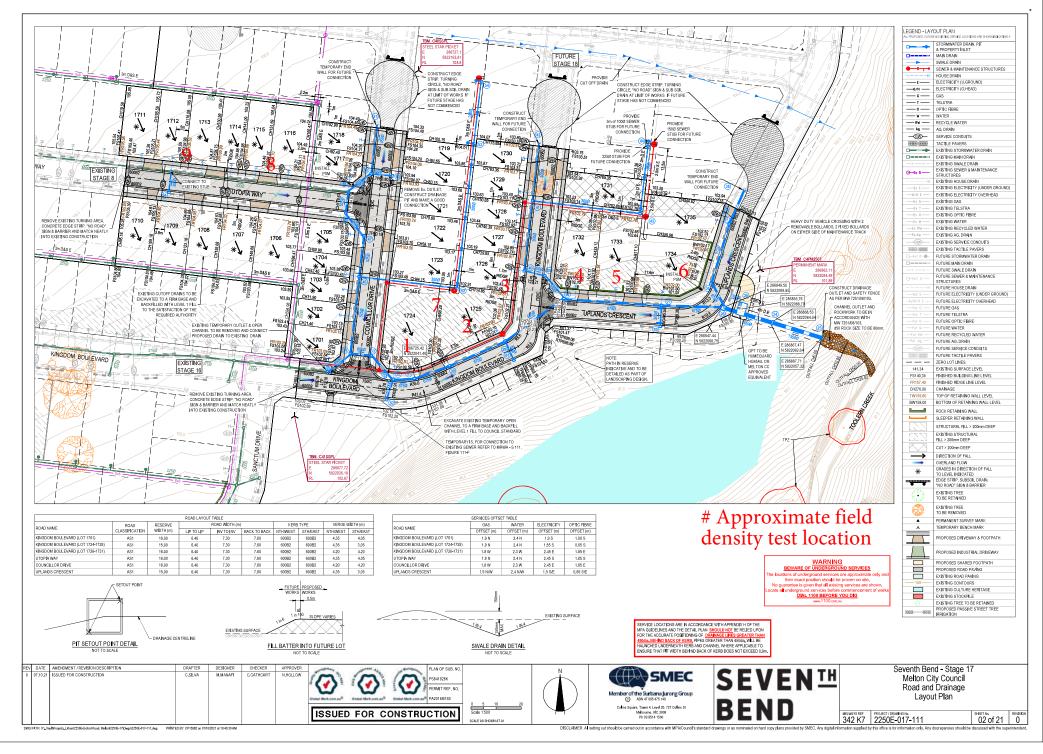
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

# FIGURE 1





### **COMPACTION ASSESSMENT**

VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136	Job No Report No Date Issued	21714 21714/R00 <sup>2</sup> 08/11/2021					
Client WINSLOW CONSTRU Project SEVENTH BEND - ST/ Location MELTON SOUTH		Tested by Date tested Checked by	JB 20/10/21 JHF				
Feature EARTHWORKS	Layer thickness		200 mm		<i>Time:</i> 14:30		
Test procedure AS 1289.2.1.1 & 5.0	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 Field moisture content	<u>t/m³</u> %	1.99 35.2	1.98 27.5	1.84 32.1	-	-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort		1	2	3 Standa	-	-	-
Oversize rock retained on sieve	mm	19.0	19.0	19.0	aiu -	-	-
Percent of oversize material	wet	0	0	0	-	_	
Peak Converted Wet Density	t/m <sup>3</sup>	2.07	2.03	1.87	-	-	-
Adjusted Peak Converted Wet Density			-	-	-	-	-
Optimum Moisture Content	%	34.5	29.5	30.5	-	-	-
Moisture Variation From		0.5%	2.0%	1.5%	-	-	-
Optimum Moisture Content		wet	dry	wet			
Density Ratio(R <sub>HD</sub> )	%	96.5	97.5	98.5	-	-	-
Material description							
No 1 - 3 Clay Fill							

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

Approved Signatory : Justin Fry



### **COMPACTION ASSESSMENT**

Project Location	SEVENTH BEND - STA MELTON SOUTH		nte tested necked by	21/10/21 JHF				
eature EARTHWORKS		Layer thickness		200 mm		<i>Time:</i> 12:00		
Test proced	dure AS 1289.2.1.1 & 5.8	8. 1						
Test No			4	5	6	7	8	9
Location			REFER TO FIGURE 1					
Approximate	depth below FSL							
Measuremer	nt depth	тт	175	175	175	175	175	175
-ield wet dei -ield moistui	-	t∕m³	1.74	1.92	1.93	1.95	1.98	1.87
Test proced Test No	lure AS 1289.5.7.1		4	5	6	7	8	9
Compactive					Stan	dard		
Oversize roc	k retained on sieve	тт	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∕m³	1.83	2.01	1.97	2.02	2.00	1.93
	ak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Mc	bisture Content	%	30.5	25.5	30.0	29.0	26.5	30.5
Mois	sture Variation From		1.0%	2.0%	1.5%	2.5%	0.5%	2.5%
	num Moisture Content		dry	wet	dry	dry	wet	dry
	ty and moisture ratio results	s relate o						
Density Rat	io (R <sub>HD</sub> )	%	95.5	95.5	98.0	96.5	99.0	97.0
Material dese No 4 - 9	·							



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