

## CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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5<sup>th</sup> October 2021

Our Reference: 21365:NB1081

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING SHERWOOD GRANGE – STAGE 1 (SUNBURY)

Please find attached our Report No's 21365/R001 to 21365/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 commenced in May 2021 and was completed in July 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).

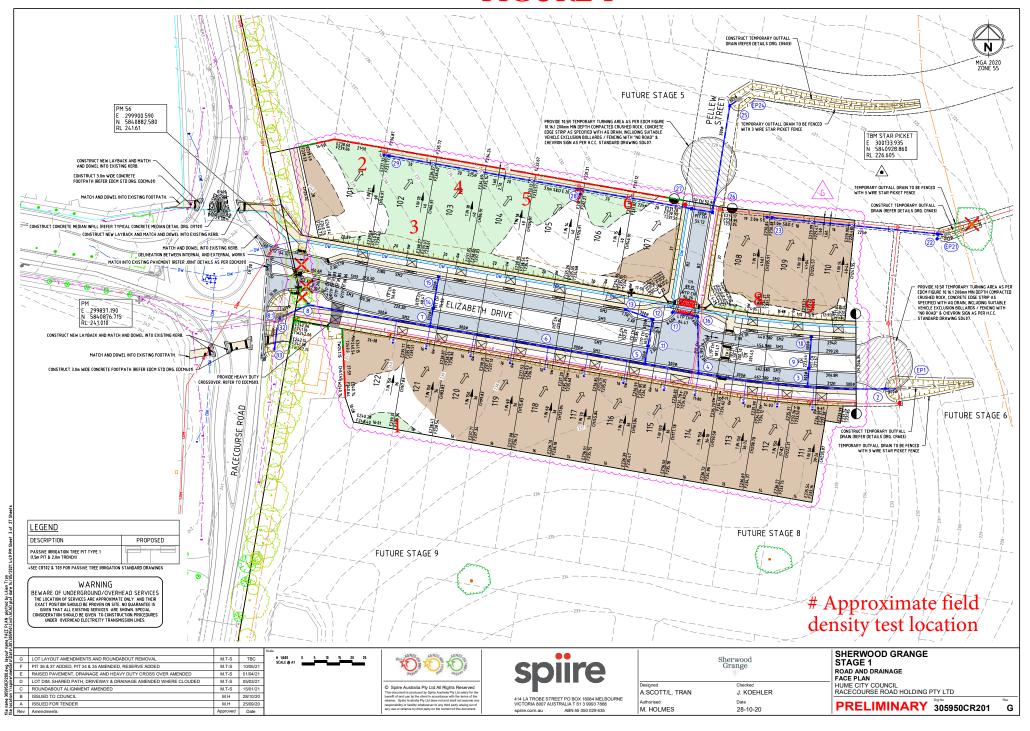
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

# FIGURE 1





Location

#### **COMPACTION ASSESSMENT**

Job No 21365 CIVIL GEOTECHNICAL SERVICES Report No 21365/R001 Date Issued 23/09/2021 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by AM Project SHERWOOD GRANGE - STAGE 1 Date tested 27/05/21

Feature EARTHWORKS Layer thickness 200 mm Time: 13:29

Test procedure AS 1289.2.1.1 & 5.8.1

**SUNBURY** 

Test No		1	2	3	4	5	6
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.82	1.83	1.82	1.87	1.89	1.98
Field moisture content	%	18.8	23.8	24.1	10.5	20.8	21.8

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
Compactive effort				Star	ndard		
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	1.89	1.91	1.89	1.97	1.96	2.03
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	24.5	26.0	13.0	23.0	24.5

Moisture Variation From	0.5%	0.5%	2.0%	2.5%	2.0%	2.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	dry

Density Ratio (R <sub>HD</sub> )	%	96.5	96.0	96.0	95.0	96.5	97.5

#### Material description

No 1 - 6 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

Checked by

JHF



### **COMPACTION ASSESSMENT**

Job No 21365 CIVIL GEOTECHNICAL SERVICES Report No 21365/R002 Date Issued 09/08/2021 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by Client AM Project SHERWOOD GRANGE - STAGE 1 Date tested 30/07/21 Location **SUNBURY** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:16

Test No		7	8	9	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL							
				475			
Measurement depth	mm	175	175	175	ı	-	-
· · · · · · · · · · · · · · · · · · ·	mm t/m³	175 1.85	175 1.85	1.81	-	-	-
Measurement depth Field wet density Field moisture content			_		-	- - -	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	1.85	1.85 23.9	1.81	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	1.85	1.85	1.81	-	-	-
Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t/m³	1.85 22.6	1.85 23.9	1.81 24.5	-	-	-
Field wet density Field moisture content  Test procedure AS 1289.5.7.1  Test No  Compactive effort	t/m³	1.85 22.6	1.85 23.9	1.81 24.5	-	-	-
Field wet density Field moisture content  Test procedure AS 1289.5.7.1  Test No  Compactive effort  Oversize rock retained on sieve	t/m³ %	1.85 22.6 7	1.85 23.9 8	1.81 24.5 9 Stan	-	-	-
Field wet density Field moisture content  Test procedure AS 1289.5.7.1  Test No  Compactive effort  Oversize rock retained on sieve  Percent of oversize material	t/m³ % mm	1.85 22.6 7 19.0	1.85 23.9 8	1.81 24.5 9 Stan 19.0	-	-	-
Field wet density Field moisture content  Test procedure AS 1289.5.7.1  Test No  Compactive effort  Oversize rock retained on sieve  Percent of oversize material  Peak Converted Wet Density	t/m³ % mm wet	1.85 22.6 7 19.0 0	1.85 23.9 8 19.0 0	1.81 24.5 9 Stan 19.0 0	-	- - -	-
Field wet density	t/m³ % mm wet t/m³	1.85 22.6 7 19.0 0 1.88	1.85 23.9 8 19.0 0 1.87	9 Stan 19.0 0 1.86	-	- - - -	-
Field wet density Field moisture content  Test procedure AS 1289.5.7.1  Test No  Compactive effort  Oversize rock retained on sieve  Percent of oversize material  Peak Converted Wet Density  Adjusted Peak Converted Wet Density	t/m³ % mm wet t/m³ t/m³	1.85 22.6 7 19.0 0 1.88	1.85 23.9 8 19.0 0 1.87	9 Stan 19.0 0 1.86	- dard - - -	- - - - -	-
Field wet density Field moisture content  Test procedure AS 1289.5.7.1  Test No  Compactive effort  Oversize rock retained on sieve  Percent of oversize material  Peak Converted Wet Density  Adjusted Peak Converted Wet Density	t/m³ % mm wet t/m³ t/m³	1.85 22.6 7 19.0 0 1.88	1.85 23.9 8 19.0 0 1.87	9 Stan 19.0 0 1.86	- dard - - -	- - - - -	-

Material description

No 7 - 9 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry