

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

18th April 2024

Our Reference: 24036:NB1844

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING FOREST RIDGE – STAGE 1 (STRATHFIELDSAYE)

Please find attached our Report No's 24036/R001 to 24036/R003 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 was performed in February 2024.

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

		Job No	24036
CIVIL GEOTEC	HNICAL SERVICES	Report No	24036/R001
6 - 8 Rose Avenue	e, Croydon 3136	Date Issued	02/03/24
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	FOREST RIDGE - STAGE 1	Date tested	21/02/24
Location	STRATHFIELDSAYE	Checked by	JHF

Feature EARTHWORKS

Layer thickness

200 mm

Time: 07:43

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL	т	0.4	0.2	0.2			
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	2.12	2.11	2.11	-	-	-
Field moisture content	%	18.6	18.7	18.3	-	-	-

Test procedure AS 1289.5.7.1

Test No		1	2	3	-	-	-	
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	2.13	2.16	2.14	-	-	-	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	18.5	20.5	20.5	-	-	-	

Moisture Variation From	0.0%	2.0%	2.0%	-	-	-
Optimum Moisture Content		dry	dry			
density and moisture ratio results relate of	only to the so	il to the deptl	h of test and	not to the ful	I depth of the	e layer
Density Ratio (R _{HD}) %	99.5	98.0	98.5	-	-	-

Material description

No 1 - 3 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



COMPACTION ASSESSMENT

		Job No	24036
CIVIL GEOTEC	HNICAL SERVICES	Report No	24036/R002
6 - 8 Rose Avenue	e, Croydon 3136	Date Issued	02/03/24
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	FOREST RIDGE - STAGE 1	Date tested	22/02/24
Location	STRATHFIELDSAYE	Checked by	JHF

Feature EARTHWORKS

Layer thickness

200 mm

Time: 07:45

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		4	5	6	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth below FSL	т	0.2	0.2	fsl			
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t∕m³	2.12	2.12	2.09	-	-	-
Field moisture content	%	21.9	21.3	20.4	-	-	-

Test procedure AS 1289.5.7.1

Test No		4	5	6	-	-	-	
Compactive effort	Standard							
Oversize rock retained on sieve	тт	19.0	19.0	19.0	-	-	-	
Percent of oversize material	wet	0	0	0	-	-	-	
Peak Converted Wet Density	t∕m³	2.18	2.17	2.14	-	-	-	
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-	
Optimum Moisture Content	%	23.0	23.0	22.5	-	-	-	

Moisture Variation From	1.0%	1.5%	2.0%	-	-	-
Optimum Moisture Content	dry	dry	dry			
density and moisture ratio results relate of	only to the so	il to the dept	h of test and	not to the ful	I depth of the	e layer
Density Ratio (R _{HD}) %	97.5	98.0	98.0	-	-	-

Material description

No 4 - 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



COMPACTION ASSESSMENT

VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136					Ri D	eport No at <u>e Issued</u>	24036 24036/R003 19/03/24	
Client WINSLOW CONSTRUC Project FOREST RIDGE - STAG Location STRATHFIELDSAYE	TORS E 1	PTY LTD (CA	AMPBELLFIE	ELD)	Te Da Ci	ested by ate tested hecked by	WS 29/02/24 JHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	12:57	
Test procedure AS 1289.2.1.1 & 5.8.	.1							
Test No		7	8	9	10	11	12	
Location		REFER TO FIGURE 1	REFER TO FIGURE 1					
Approximate depth below FSL	m	fsl	fsl	fsl	fsl	fsl	fsl	
Measurement depth	mm	175	175	175	175	175	175	
Field wet density	t∕m³	2.06	2.03	2.05	2.10	2.10	2.08	
Field moisture content	%	17.9	16.9	17.1	17.9	18.7	17.9	
Test procedure AS 1289 5 7 1								
Test No		7	8	9	10	11	12	
Compactive effort				Stan	Idard			
Oversize rock retained on sieve	тт	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	2.09	2.09	2.08	2.13	2.14	2.09	
Adjusted Peak Converted Wet Density	<i>t/m</i> ³	-	-	-	-	-	-	
Optimum Moisture Content	%	20.0	19.0	18.5	18.0	20.5	20.5	
Moisture Variation From		2.0%	2.0%	1 5%	0.0%	2.0%	2.5%	
Ontimum Moisture Content		drv	drv	drv	0.070	drv	drv	
density and moisture ratio results	relate o	only to the so	il to the dept	h of test and	not to the fu	I depth of the	e layer	
Density Ratio(R _{HD})	%	98.5	97.0	98.5	98.5	98.0	99.5	
Material description								
No 7 - 12 Clay Fill								



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry