

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

27th March 2020

Our Reference: 19067:NB710

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ALBRIGHT – STAGE 6 (TRUGANINA)

Please find attached our Report No's 19067/R001 to 19067/R004 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 commenced in January 2019 and was completed in January 2020.

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).

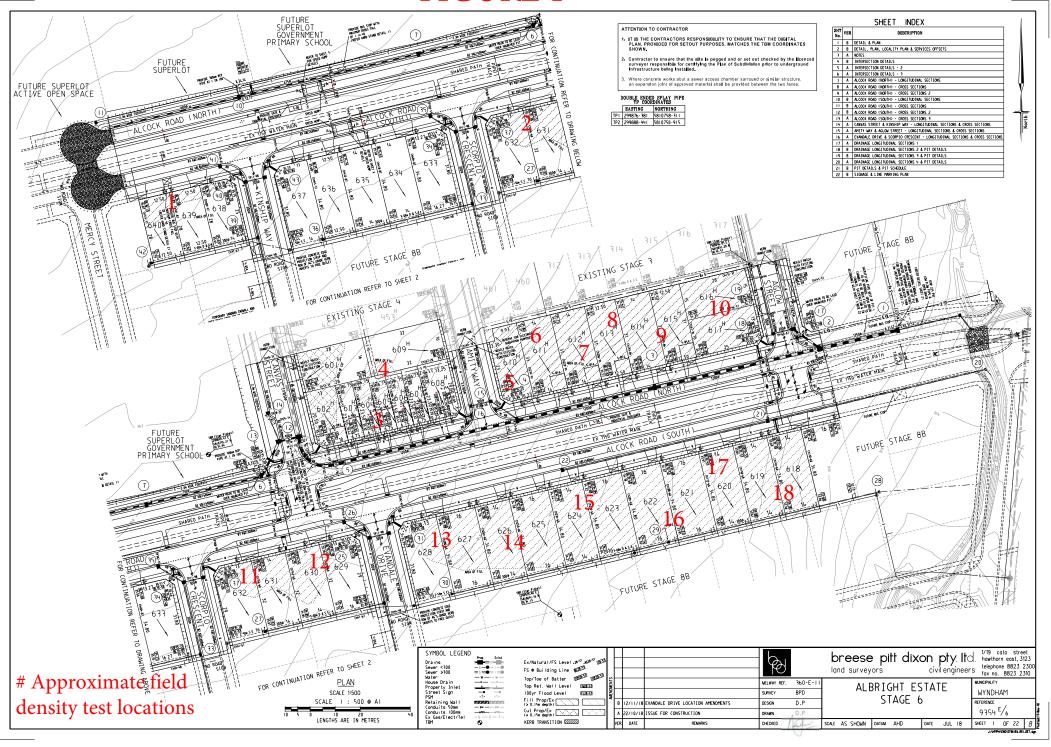
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

19067: NB710 March 2020

FIGURE 1





Location

Feature

TRUGANINA

EARTHWORKS

COMPACTION ASSESSMENT

c	CIVIL GEOTEC	HNICAL SERVICES	Job No Report No	19067 19067/R001
6	6 - 8 Rose Avenue	, Croydon 3136	Date Issued	24/05/2019
	Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BGG
	Project	ALBRIGHT ESTATE - STAGE 6	Date tested	02/03/19

Layer thickness

Test No		1	2	3	-	-	-
Location							
		REFER	REFER	REFER			
		ТО	TO	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.80	1.75	1.79	-	-	-
Field moisture content	%	23.3	23.3	23.1	_	_	_
		_0.0	_0.0				
Test procedure AS 1289.5.7.1	70						<u> </u>
Test procedure AS 1289.5.7.1 Test No	70	1	2	3	-	-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort	70	1	2	3 Stan		-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	mm	1 19.0	2	3 Stan 19.0		-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	mm wet	1	2	3 Stan	dard	I	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	mm	1 19.0	2	3 Stan 19.0	dard -	-	-
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	mm wet t/m³	1 19.0 0	19.0 0 1.78	3 Stan 19.0 0	dard - -	-	-
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	mm wet t/m³	1 19.0 0 1.85	2 19.0 0 1.78	3 Stan 19.0 0	dard - - -	- - -	- - -
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	mm wet t/m³	1 19.0 0 1.85	19.0 0 1.78	3 Stan 19.0 0 1.86	dard - - -	- - -	- - -
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	mm wet t/m³	1 19.0 0 1.85	19.0 0 1.78	3 Stan 19.0 0 1.86	dard - - -	- - -	- - -
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 Optimum Moisture Content	mm wet t/m³	1 19.0 0 1.85 - 21.0	2 19.0 0 1.78 - 21.0	3 Stan 19.0 0 1.86 - 20.5	dard - - -	- - -	- - -
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 Optimum Moisture Content Moisture Variation From	mm wet t/m³	1 19.0 0 1.85 - 21.0	2 19.0 0 1.78 - 21.0	3 Stan 19.0 0 1.86 - 20.5	dard - - -	- - -	- - -

Material description

No 1 - 3 Clay Fill



AVRLOT HILF V1.10 MAR 13

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry

Checked by

200 mm

JHF

Time: 12:09



COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 19067

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 19067/R002

 Date Issued
 24/05/2019

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byBGGProjectALBRIGHT ESTATE - STAGE 6Date tested04/03/19LocationTRUGANINAChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:48

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		4	5	6	7	8	9
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	2.07	1.94	1.98	1.95	1.93	1.97
Field moisture content	%	31.2	36.1	31.9	31.4	33.6	34.3

Test procedure AS 1289.5.7.1

Test No		4	5	6	7	8	9
Compactive effort				Stan	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	2.11	1.97	2.01	1.98	1.97	2.01
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	28.0	34.0	30.0	29.5	31.5	31.5

Moisture Variation From	2.5%	2.0%	2.0%	2.0%	2.0%	2.5%
Optimum Moisture Content	wet	wet	wet	wet	wet	wet

Density Ratio (R _{HD})	%	98.5	98.5	98.5	98.5	98.0	98.5

Material description

No 4 - 9 Clay Fill



Julia J

AVRLOT HILF V1.10 MAR 13

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

 CIVIL GEOTECHNICAL SERVICES
 Job No
 19067

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 19067/R003

 Date Issued
 29/05/2019

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byBGGProjectALBRIGHT ESTATE - STAGE 6Date tested05/03/19LocationTRUGANINAChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:09

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		10	11	12	13	14	15
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	1.83	1.81	1.86	1.82	1.84	1.92
Field moisture content	%	26.8	27.0	26.6	23.3	28.1	24.4

Test procedure AS 1289.5.7.1

Test No		10	11	12	13	14	15
Compactive effort				Stan	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	1.87	1.88	1.90	1.90	1.88	1.95
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-
Optimum Moisture Content	%	29.0	29.5	29.0	26.0	30.0	27.0

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

Density Ratio (R _{HD})	%	98.0	96.0	98.0	96.0	98.0	98.0

Material description

No 10 - 15 Clay Fill

NATA

Juliu J

AVRLOT HILF V1.10 MAR 13

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 19067 **CIVIL GEOTECHNICAL SERVICES** Report No 19067/R004 Date Issued 04/02/2020 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by AC Project ALBRIGHT ESTATE - STAGE 6 Date tested 22/01/20 Location **TRUGANINA** Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:14

Test No		16	17	18	-	-	-
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	1.87	1.88		-	-
Field moisture content	%	26.1	30.3	29.5	-	-	-
Test procedure AS 1289.5.7.1 Test No		16	17	18	-	-	-
Compactive effort		40.0	100	Stan			т—
Oversize rock retained on sieve Percent of oversize material	mm	19.0	19.0	19.0	-	-	-
Darcant at avareiza matarial	wet t/m³	0 1.90	0	0	-	-	-
	T/1110	1.90	1.89	1.92	-	-	-
Peak Converted Wet Density							†
Peak Converted Wet Density Adjusted Peak Converted Wet Density	′ t/m³	-	- 20.0	- 27.5	-	-	-
Peak Converted Wet Density		26.0	29.0	27.5	-	-	-
Peak Converted Wet Density Adjusted Peak Converted Wet Density	′ t/m³	-					ł

Material description

No 16 - 18 Clay Fill



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry