

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

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

29th April 2015

Our Reference: 15199:DK024

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs.

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING ASTON STAGE 9A - CRAIGIEBURN

Please find attached our Report Nos 15199/R001 to 15199/R002 that 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 mid April 2015 and was completed in late April 2015.

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 inspections and testing was performed by an experienced geotechnician 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 filled 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 filled 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

Dino Kondzic

15199: DK024: April 2015





COMPACTION ASSESSMENT

CIVIL GEOTEC	CHNICAL SERVICES	Job No Report No	15199 15199/R001
6 - 8 Rose Avenu	e, Croydon 3136	Date Issued	23/04/15
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JWM
Project	ASTON - STAGE 9A	Date tested	17/04/15
Location	CRAIGIEBURN	Checked by	JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:05

Test procedure AS	1289.2.1.1 & 5.8.1

Test No		1	2	3	-	-	-
		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	1.98	1.92	1.92	-	-	-
Field moisture content	%	12.9	12.2	14.0	-	-	-

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	2	0	0	-	-	-
Peak Converted Wet Density	t/m³	2.03	2.01	2.01	-	-	-
Adjusted Peak Converted Wet Density	t/m³	2.06	-	-	-	-	-
Optimum Moisture Content	%	13.5	12.0	14.5	-	-	-

Moisture Variation From	0.5%	0.5%	0.5%	-	-	-
Optimum Moisture Content	dry	wet	dry			

Density Ratio (R _{HD})	%	96.0	95.5	95.5	-	-	-

Material description

No 1 - 3 Clay Fill



July

Approved Signatory : Justin Fry



Location

COMPACTION ASSESSMENT

Job No 15199 CIVIL GEOTECHNICAL SERVICES 15199/R002 Report No 6 - 8 Rose Avenue, Croydon 3136 Date Issued 29/04/15 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Client Tested by JWM Project ASTON - STAGE 9A Date tested 24/04/15

Checked by

JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 08:45

Test procedure AS 1289.2.1.1 & 5.8.1

CRAIGIEBURN

Test No		4	5	6	7	8	-
		REFER TO FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	-
Field wet density	t/m³	1.99	2.01	1.91	1.97	1.92	-
Field moisture content	%	19.3	22.1	16.6	14.7	15.1	-

Test procedure AS 1289.5.7.1

Test No		4	5	6	7	8	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	19.0	-
Percent of oversize material	wet	1	4	0	2	0	-
Peak Converted Wet Density	t/m³	2.08	2.08	1.99	2.04	2.01	-
Adjusted Peak Converted Wet Density	t/m³	2.09	2.09	-	2.08	-	-
Optimum Moisture Content	%	20.0	21.5	19.0	16.5	17.5	-

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

Density Ratio (R _{HD})	%	95.5	96.0	96.0	95.0	96.0	-

Material description

No 4 - 8 Clay Fill



Approved Signatory: Justin Fry

AVRLOT HILF V1.10 MAR 13