



CIVIL GEOTECHNICAL SERVICES
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16th October 2018

Our Reference: 18639:NB299

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ARMSTRONG ESTATE – STAGE 41 (MOUNT DUNEED)

Please find attached our Report No 18639/R001 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 were performed in August 2017.

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).

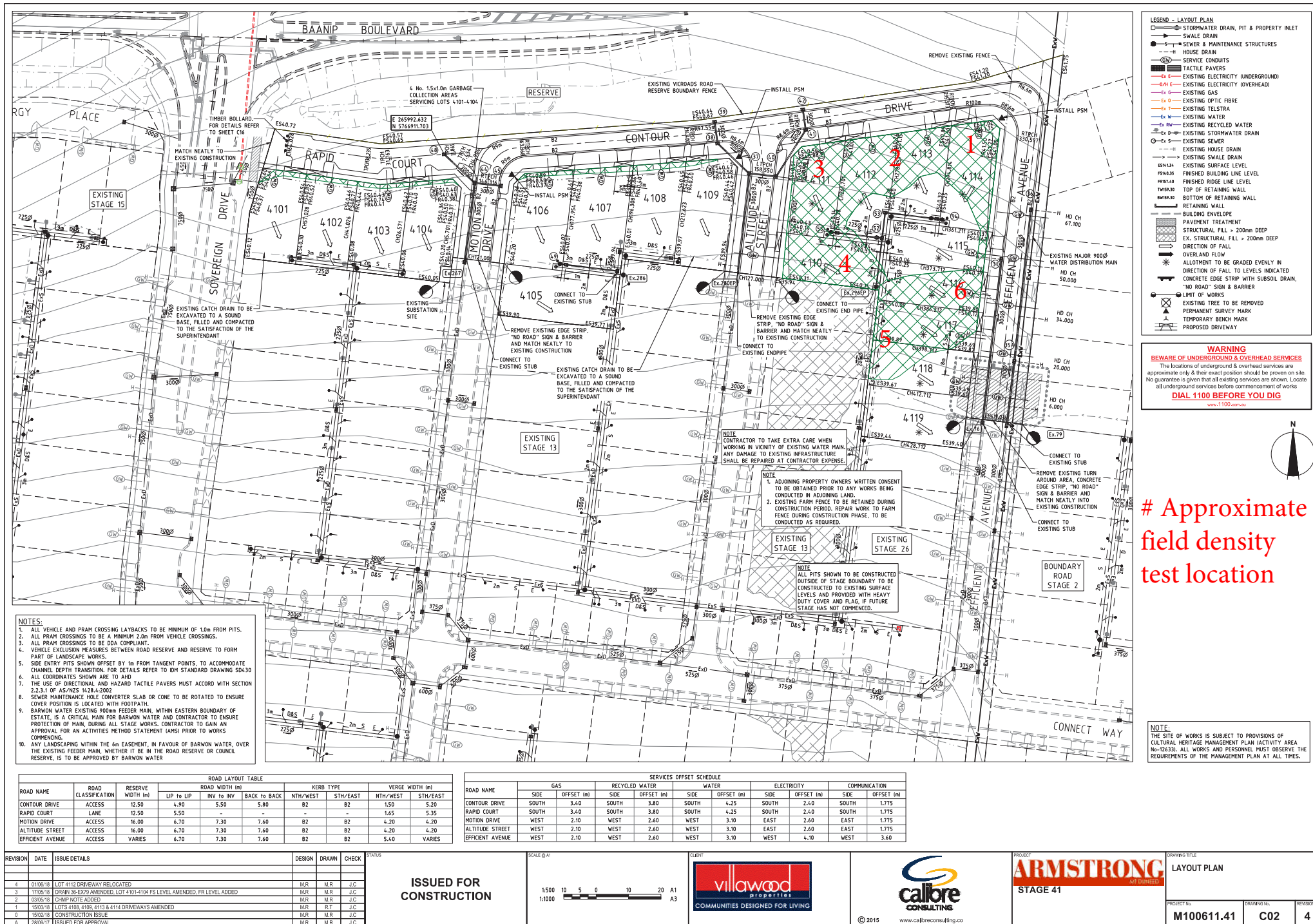
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
Project ARMSTRONG - STAGE 41
Location MOUNT DUNNED

Job No 18639
Report No 18639/R001
Date Issued 13/10/2017

Tested by AG
Date tested 15/08/17
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	4	5	6
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
Approximate depth below FSL						
Measurement depth mm	175	175	175	175	175	175
Field wet density t/m ³	1.83	1.84	1.90	1.89	1.90	1.93
Field moisture content %	25.0	26.5	23.3	27.3	26.0	24.3

Test procedure AS 1289.5.7.1

Test No	1	2	3	4	5	6
Compactive effort	Standard					
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/m ³	1.91	1.91	1.97	1.91	1.95	2.00
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	26.5	26.0	25.0	28.0	25.5	25.0

Moisture Variation From Optimum Moisture Content	1.5% dry	0.5% wet	1.5% dry	0.5% dry	0.5% dry	0.5% dry
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Density Ratio (R_{HD})	%	96.0	96.0	96.5	99.0	98.0	96.5
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Material description

No 1 - 6 Clay Fill



The results of the tests, calibrations
and/or measurements included in
this document are traceable to
Australian/National standards.
Accredited for compliance to
ISO/IEC 17025.
Accreditation No 9909

Justin Fry

Approved Signatory : Justin Fry

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