



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

13th August 2021

Our Reference: 21412:NB998

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
REDSTONE – STAGE 4 (SUNBURY)

Please find attached our Report No 21412/R001 which relates 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 was performed in August 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

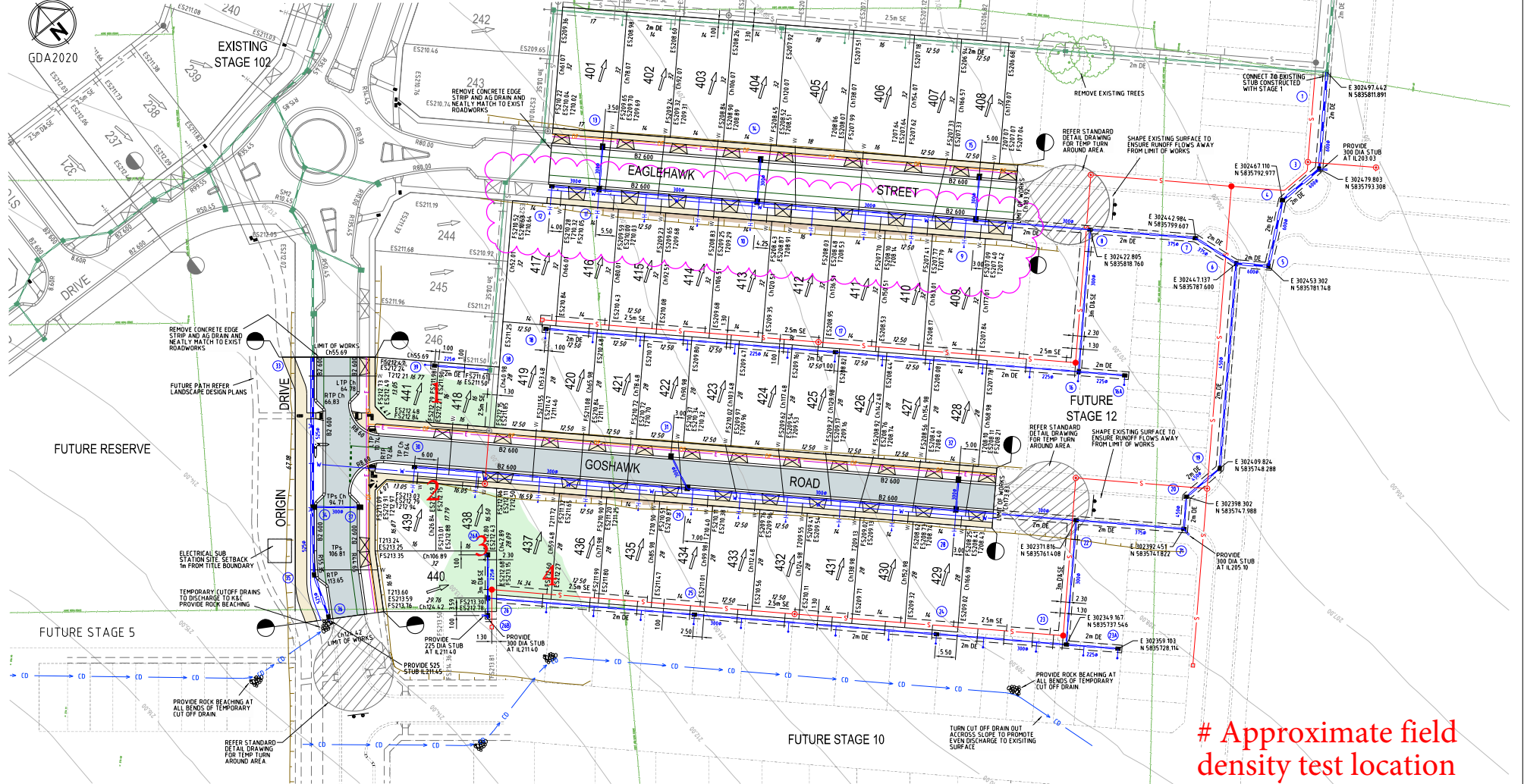
Nick Brock

FIGURE 1

SERVICE OFFSETS AND LOCATION TABLE

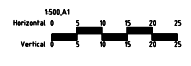
ROAD NAME	POTABLE WATER		ELECTRICITY		TELECOM	
	SIDE	OFFSET	POLE	U/G CABLE	SIDE	OFFSET
ORIGIN DRIVE	N	2.60	S	0.90*	S	1.85
EAGLEHAWK STREET	W	3.60	E	0.90*	E	1.80
GOSHAWK ROAD	W	2.60	E	0.90*	E	2.50

- TELECOMS AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS.
- GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH.
- * DENOTES OFFSET FROM BACK OF KERB.
- LIGHT POLES DIMENSIONED TO CENTRE OF POLE.



Approximate field density test location

6	EAGLEHAWK STREET FS LEVELS UPDATED	M.T.S	14/05/21
5	LOTS 438 TO 440 REGRADED, FS LEVELS & T LEVELS UPDATED	M.T.S	8/05/21
4	GAS REMOVED, GAS REMOVED FROM SERVICE OFFSET TABLE	M.T.S	30/04/21
3	DRAIN / SEWER OFFSET DIMENSIONS ADDED	M.T.S	25/04/21
2	OUTFALL DRAINAGE ALIGNMENT / FUTURE LOT LAYOUT UPDATED	M.T.S	05/04/21
1	ROAD NAMES UPDATED	M.T.S	26/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21
Rev	Amendments	Approved	Date



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villawood properties
 Communities Designed for Living
 Designed: R. WEINBER
 Authorised: M. LETSON

Redstone.
 Your world awaits
 Checked: D CAMERON
 Date: 4/05/20

REDSTONE ESTATE
STAGE 4
ROAD AND DRAINAGE FACE PLAN
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL
CONSTRUCTION Drg No: 305915R02 Rev: 6



COMPACTION ASSESSMENT

Job No 21412
 Report No 21412/R001
 Date Issued 13/08/2021

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	REDSTONE ESTATE - STAGE 4	Date tested	11/08/21
Location	SUNBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	14:54
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	4	-	-
Location		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	-	-
Field wet density	t/m ³	1.82	1.89	1.88	1.90	-	-
Field moisture content	%	19.6	19.7	20.8	18.0	-	-

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	-	-
Compactive effort		Standard					
Oversize rock retained on sieve	mm	19.0	19.0	19.0	19.0	-	-
Percent of oversize material	wet	0	0	0	0	-	-
Peak Converted Wet Density	t/m ³	1.91	1.95	1.87	1.95	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	22.0	22.0	22.5	20.0	-	-

Moisture Variation From Optimum Moisture Content		2.0% dry	2.0% dry	2.0% dry	2.0% dry	-	-
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Density Ratio (R _{HD})	%	95.0	96.5	101.0	97.0	-	-
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Material description

No 1 - 4 Clay Fill

AVRLOT HILF V1.10 MAR 13



NATA Accredited Laboratory No 9909
 Accredited for compliance with
 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry