



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

31st August 2022

Our Reference: 22366:NB1328

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
CORNERSTONE – STAGE 12 (WYNDHAM VALE)**

Please find attached our Report No's 22366/R001 and 22366/R002 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 was performed in August 2022.

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

A handwritten signature in blue ink, appearing to read 'Nick Brock', is written over a light blue circular stamp.

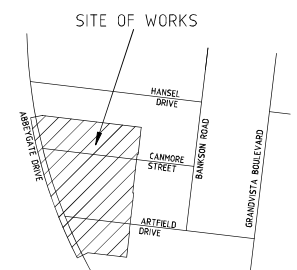
Nick Brock

FIGURE 1



SHEET INDEX

SHT No.	VER	DESCRIPTION
1	E	LAYOUT PLAN AND DETAILS
2	B	INTERSECTION DETAILS
3	A	ROAD LONGSECTIONS - SHEET 1
4	A	ROAD LONGSECTIONS - SHEET 2
5	B	ROAD CROSS SECTIONS - SHEET 1
6	B	ROAD CROSS SECTIONS - SHEET 2
7	A	ROAD CROSS SECTIONS - SHEET 3
8	A	ROAD CROSS SECTIONS - SHEET 4
9	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
10	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
11	B	TYPICAL CROSS SECTIONS
12	B	SIGNAGE AND LINEMARKING



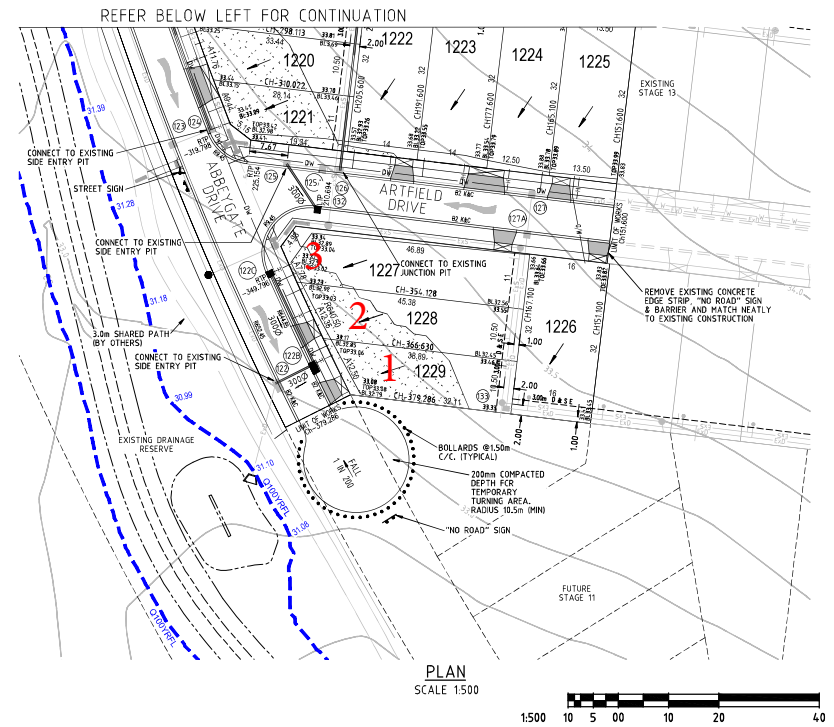
WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

PROPOSED LOT DRAINAGE CONNECTIONS TO BE CUT IN TO EXISTING DRAINAGE PIPE FOR LOTS 1203-1219, 1224-1230 & 1240-1243

SITE LOCALITY PLAN
NOT TO SCALE

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SET OUT PURPOSES, MATCHES THE TBM CO-ORDINATES SHOWN.
- WHERE CONCRETE WORKS ABOUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVAL MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.



SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	RESERVE WIDTH	WATER		GAS		ELECTRICITY		TELECOMMUNICATIONS		BOK		
		DW	NDW	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	
		POLE		LIVE CABLE		SIDE		SIDE		SIDE		
CANMORE STREET	16.00	3.20 N	2.70 N	2.25 N	S	1.00*	S	2.60	S	1.80	4.35 N	4.05 S
ABBEIGATE DRIVE	14.50	3.20 E	2.70 E	2.25 E	W	1.00*	W	1.40	W	0.65	2.95 W	4.35 E
ARTFIELD DRIVE	16.00	3.20 N	2.70 N	2.25 N	S	1.00*	S	2.60	S	1.85	4.35 N	4.05 S

NOTE: * OFFSET FROM BACK OF KERB

SYMBOL LEGEND

Drains	Ex/Natural/F/S Level	Temporary Bench Mark (TBM)
Sewer <300	FS @ Building Line	Ex/Natural/F/S Level
Sewer >300	Top/Toe of Batter	FS @ Building Line
Water	Top Ref. Wall Level	FS @ Building Line
House Drain	Fill Prop/Ex (0.2m-0.5m depth)	FS @ Building Line
Property Inlet	Fill Prop/Ex (>0.5m depth)	FS @ Building Line
Street Sign	Out Prop/Ex (>0.5m depth)	FS @ Building Line
PSM	Threshold Treatment	FS @ Building Line
Retaining Wall		FS @ Building Line
Conduits 50mm		FS @ Building Line
Conduits 100mm		FS @ Building Line
Ex Gas/Elec/Tel		FS @ Building Line

REV	DATE	REMARKS
E	11.02.22	SHEET INDEX UPDATED
D	10.02.22	SHEET INDEX UPDATED
C	07.10.21	SHEET INDEX UPDATED
B	07.09.21	COUNCIL COMMENTS
A	21.07.21	ISSUED FOR CONSTRUCTION

breese pitt dixon pty. ltd.
land surveyors civil engineers

MELWAY REF. 204 E9

CORNERSTONE ESTATE STAGE 12
LAYOUT PLAN & DETAILS

1/19 coto street hawthorn east, 3123 telephone 8823 2300 fax no. 8823 2310

MUNICIPALITY WYNDHAM

REFERENCE 8890 - E/12

CHECKED - SCALE AS SHOWN DATUM AHD DATE FEB '20 SHEET 01 OF 12 E



COMPACTION ASSESSMENT

Job No 22366
 Report No 22366/R001
 Date Issued 31/08/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	CORNERSTONE - STAGE 12	Date tested	26/08/22
Location	WYNDHAM VALE	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 14:43
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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
Field wet density	t/m ³	1.85	1.84	1.80	1.85	1.90
Field moisture content	%	15.7	16.5	14.6	13.8	13.6

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
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m ³	1.95	1.91	1.86	1.94	1.96
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	17.5	18.5	16.5	15.5	16.5

Moisture Variation From Optimum Moisture Content	1.5% dry	2.0% dry	2.0% dry	2.0% dry	2.0% dry	2.0% dry
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density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R _{HD})	%	95.0	96.5	97.0	95.5	96.5	97.0
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Material description

No 1 - 6 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



COMPACTION ASSESSMENT

Job No 22366
 Report No 22366/R002
 Date Issued 31/08/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by BS
 Date tested 26/08/22
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project CORNERSTONE - STAGE 12
 Location WYNDHAM VALE

Feature EARTHWORKS *Layer thickness* 200 mm *Time:* 14:53

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		7	8	9	-	-	-
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/m ³	1.82	1.91	1.82	-	-	-
Field moisture content	%	17.1	14.6	13.5	-	-	-

Test procedure AS 1289.5.7.1

Test No		7	8	9	-	-	-
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/m ³	1.90	1.95	1.84	-	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	16.5	15.5	-	-	-

Moisture Variation From Optimum Moisture Content		2.0% dry	2.0% dry	2.0% dry	-	-	-
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density and moisture ratio results relate only to the soil to the depth of test and not to the full depth of the layer

Density Ratio (R_{HD})	%	95.5	98.0	98.5	-	-	-
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Material description

No 7 - 9 Clay Fill

AVRLOT HILF V1.10 MAR 13



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