



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

11th August 2022

Our Reference: 21618:NB1317

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ACACIA – STAGE 3 (WOLLERT)**

Please find attached our Report No's 21618/R001 and 21618/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 May 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).

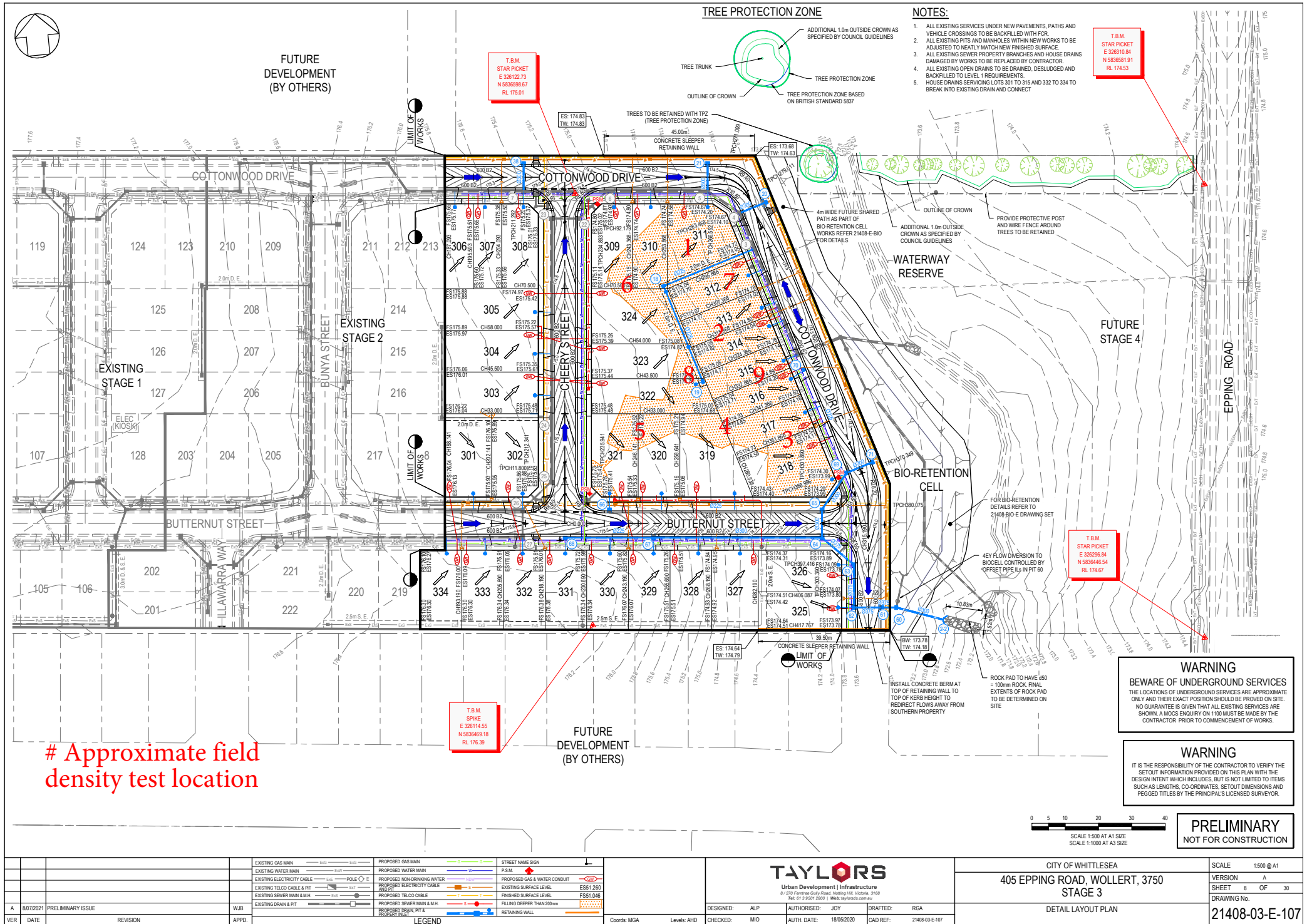
Please contact the undersigned if you require any additional information.

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



NOTES:

1. ALL EXISTING SERVICES UNDER NEW PAVEMENTS, PATHS AND VEHICLE CROSSINGS TO BE BACKFILLED WITH FGR.
2. ALL EXISTING PITS AND MANHOLES WITHIN NEW WORKS TO BE ADJUSTED TO NEATLY MATCH NEW FINISHED SURFACE.
3. ALL EXISTING SEWER PROPERTY BRANCHES AND HOUSE DRAINS DAMAGED BY WORKS TO BE REPLACED BY CONTRACTOR.
4. ALL EXISTING OPEN DRAINS TO BE DRAINED, DESLUDGED AND BACKFILLED TO LEVEL 1 REQUIREMENTS.
5. HOUSE DRAINS SERVICING LOTS 301 TO 315 AND 332 TO 334 TO BREAK INTO EXISTING DRAIN AND CONNECT.

T.B.M. STAR PICKET
E 326122.13
N 583696.67
RL 175.01

T.B.M. STAR PICKET
E 326296.84
N 583646.54
RL 174.67

T.B.M. SPIKE
E 326114.55
N 583649.18
RL 176.39

Approximate field density test location

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVED ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. A MOCS ENQUIRY ON 1100 MUST BE MADE BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS.

WARNING
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SETOUT INFORMATION PROVIDED ON THIS PLAN WITH THE DESIGN INTENT WHICH INCLUDES, BUT IS NOT LIMITED TO ITEMS SUCH AS LENGTHS, CO-ORDINATES, SETOUT DIMENSIONS AND PEGGED TITLES BY THE PRINCIPAL'S LICENSED SURVEYOR.

PRELIMINARY
NOT FOR CONSTRUCTION

0 5 10 20 30 40
SCALE 1:500 AT A1 SIZE
SCALE 1:1000 AT A3 SIZE

VER	DATE	REVISION	APPD.	WJB
A	8/07/2021	PRELIMINARY ISSUE		

EXISTING GAS MAIN	PROPOSED GAS MAIN	STREET NAME SIGN
EXISTING WATER MAIN	PROPOSED WATER MAIN	P.S.M.
EXISTING ELECTRICITY CABLE	PROPOSED NON-DRINKING WATER	PROPOSED GAS & WATER CONDUIT
EXISTING TELCO CABLE & PIT	PROPOSED ELECTRICITY CABLE	EXISTING SURFACE LEVEL
EXISTING SEWER MAIN & M.H.	PROPOSED TELCO CABLE	FINISHED SURFACE LEVEL
EXISTING DRAIN & PIT	PROPOSED SEWER MAIN & M.H.	FILLING DEEPER THAN 200mm
	PROPOSED DRIVE PIT	RETAINING WALL

LEGEND

TAYLORS
Urban Development | Infrastructure
8/270 Fernside Quay Road, Wollert, VIC 3168
Tel: 01 19400 2000 | www.taylors.com.au

DESIGNED: ALP AUTHORIZED: JOY DRAFTED: RGA
CHECKED: MIO AUTH. DATE: 19/05/2020 CAD REF: 21408-03-E-107

CITY OF WHITTLESEA
750 FERNSIDE QUAY ROAD, WOLLERT, 3168
STAGE 3
DETAIL LAYOUT PLAN

SCALE 1:500 @ A1
VERSION A
SHEET 8 OF 30
DRAWING No.
21408-03-E-107



COMPACTION ASSESSMENT

Job No 21618
 Report No 21618/R001
 Date Issued 09/06/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ACACIA - STAGE 3	Date tested	11/05/22
Location	WOLLERT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 07:25
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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	175
Field wet density t/m ³	1.90	1.90	1.93	1.92	1.92	1.91
Field moisture content %	17.5	16.4	15.6	24.8	19.5	16.4

17.6

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	19.0
Percent of oversize material wet	0	0	0	0	0	0
Peak Converted Wet Density t/m ³	1.92	1.93	1.98	1.99	1.98	1.95
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	20.0	18.5	16.0	27.5	20.0	16.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% dry	0.5% dry	2.5% dry	0.5% dry	0.0%
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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})	%	99.0	98.5	97.5	97.0	97.0	97.5
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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 21618
 Report No 21618/R002
 Date Issued 15/06/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	ACACIA - STAGE 3	Date tested	12/05/22
Location	WOLLERT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	08:35
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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	1.92	1.90	1.89	-	-	-
Field moisture content %	23.8	20.9	20.0	-	-	-

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	1.97	1.93	1.97	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	25.5	22.5	20.0	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	1.5% dry	0.0%	-	-	-
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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})	%	97.5	98.5	96.0	-	-	-
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Material description

No 7 - 9 Clay Fill

AVRLOT HILF V1.10 MAR 13



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 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry