



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

1st February 2021

Our Reference: 20672:NB879

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ALBRIGHT – STAGE 8C (TRUGANINA)

Please find attached our Report No's 20672/R001 to 20672/R004 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 December 2020.

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).

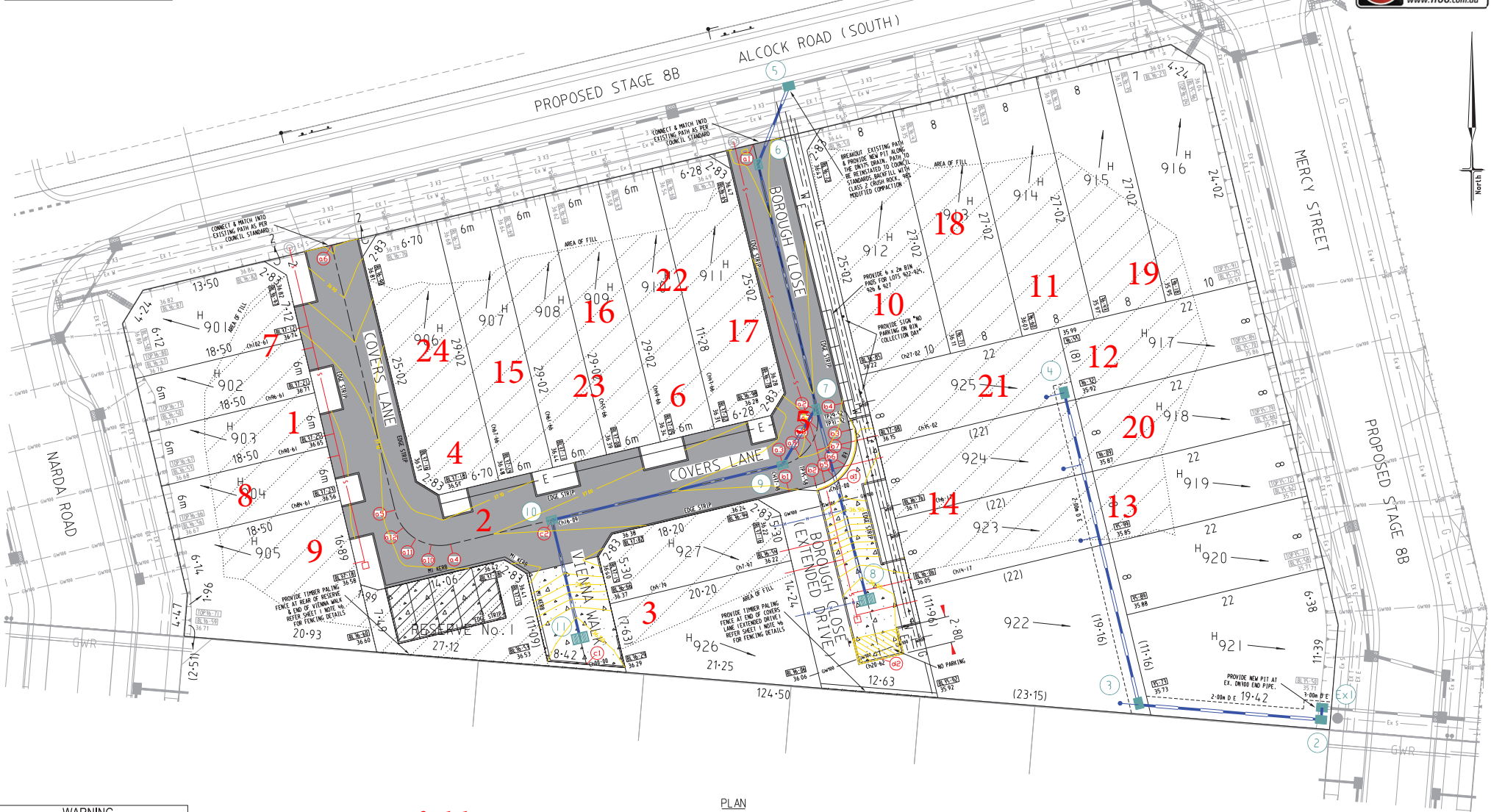
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1

CONTRACTOR TO OBTAIN NECESSARY ROAD OPENING PERMITS PRIOR TO WORK COMMENCEMENT



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.

Approximate field
density test location



ATTENTION TO CONTRACTOR

1. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
2. Contractor to ensure that the site is pegged and or set out checked by the licensed surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
3. Where concrete works about a sewer access chamber surround or similar structure, an expansion joint of approved material shall be provided between the two faces.

SYMBOL LEGEND	
Drains	Prop
Sewer <300	Exist
Sewer >300	FS @ Building Line
Water	Top/Toe of Wall
House Drain	Top Ret. Wall Level
Property Inlet	100yr Flood Level
Street Sign	Fill Prop
PSM	Cut Prop
Retaining Wall	
Conduits 50mm	
Conduits 100mm	
Ex Gas/Elect/Tel	

VER	DATE	REMARKS	CHECKED
B	17/07/20	STREET NAME AMENDMENTS	
A	14/05/20	ISSUED FOR CONSTRUCTION	

breese pitt dixon pty. ltd.
land surveyors
civil engineers

1/19 calo street
howthorn east, 3123
telephone 8823 2300
fax no. 8823 2310

MELWAY REF. 360-E-11

SURVEY VERIS

DESIGN D.P

DRAWN D.P

**ALBRIGHT ESTATE
STAGE 8C
DETAIL DESIGN**

REFERENCE
9354 E/8c

MUNICIPALITY
WYNDHAM

SHEET 2 OF 7

SCALE AS SHOWN

DATUM AHD

DATE JAN 20



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20672
Report No 20672/R001
Date Issued 14/01/2020

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 8C	Date tested	02/12/20
Location	TRUGANINA	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:30
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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	1.88	1.96	2.01	2.10	2.12	2.07
Field moisture content %	21.5	22.6	24.9	17.9	18.5	21.3

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	1.95	1.99	2.07	2.16	2.14	2.16
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	24.0	25.0	27.5	20.0	21.0	23.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.0% dry	2.0% dry	2.0% dry	2.0% dry
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Density Ratio (R_{HD})	%	96.0	98.5	97.5	97.5	99.0	96.0
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Material description

No 1 - 6 Clay Fill

AVRLOT HILF V1.10 MAR 13



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. Accredited for compliance with ISO/IEC 17025 - Testing

Accreditation No 9909

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20672
Report No 20672/R002
Date Issued 01/02/2021

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
Project ALBRIGHT ESTATE - STAGE 8C
Location TRUGANINA

Tested by JB
Date tested 03/12/20
Checked by JHF

Feature EARTHWORKS

Layer thickness

200 mm

Time: 10:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	7	8	9	10	11	12
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	1.95	1.92	1.95	1.99	2.04	2.04
Field moisture content %	15.4	19.7	16.4	20.3	16.9	16.3

Test procedure AS 1289.5.7.1

Test No	7	8	9	10	11	12
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	2.02	2.00	2.01	2.05	2.12	2.10
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	17.5	22.0	18.5	22.5	19.5	18.5

Moisture Variation From Optimum Moisture Content	2.0% dry	2.5% dry	2.0% dry	2.0% dry	2.5% dry	2.0% dry
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Density Ratio (R_{HD})	%	96.5	96.0	97.0	97.5	96.5	97.5
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Material description

No 7 - 12 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Accreditation No 9909

Justin Fry

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20672
Report No 20672/R003
Date Issued 19/01/2021

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 8C	Date tested	09/12/20
Location	TRUGANINA	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 11:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	13	14	15	16	17	18
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	1.99	1.84	1.98	1.98	2.00	1.84
Field moisture content %	17.9	19.9	17.0	18.6	16.8	18.0

Test procedure AS 1289.5.7.1

Test No	13	14	15	16	17	18
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	2.00	1.86	2.00	2.02	2.03	1.91
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	20.5	22.5	19.5	20.0	19.0	20.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.5% dry	1.5% dry	2.0% dry	2.5% dry
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Density Ratio (R_{HD})	%	99.5	99.0	99.0	98.0	98.5	96.0
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Material description

No 13 - 18 Clay Fill

AVRLOT HILF V1.10 MAR 13



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COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 20672
Report No 20672/R004
Date Issued 01/02/2021

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
Project ALBRIGHT ESTATE - STAGE 8C
Location TRUGANINA

Tested by JB
Date tested 10/12/20
Checked by JHF

Feature EARTHWORKS

Layer thickness

200 mm

Time: 08:00

Test procedure AS 1289.2.1.1 & 5.8.1

Test No	19	20	21	22	23	24
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	1.88	1.87	1.82	1.87	1.81	1.87
Field moisture content %	16.6	26.6	18.4	19.8	20.9	20.4

Test procedure AS 1289.5.7.1

Test No	19	20	21	22	23	24
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	1.94	1.92	1.88	1.92	1.91	1.92
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	19.0	29.0	21.0	22.5	23.5	23.0

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry
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Density Ratio (R_{HD})	%	97.0	97.0	97.0	97.5	95.0	97.5
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Material description

No 19 - 24 Clay Fill

AVRLOT HILF V1.10 MAR 13



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