



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

29<sup>th</sup> January 2018

Our Reference: 18063:NB123

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING  
ALBRIGHT ESTATE – STAGE 2 (TRUGANINA)**

Please find attached our Report No 18063/R001 which relates to the field density testing that was conducted within the wetland basins at the above subdivision. The level 1 inspections and associated field density testing were performed in October 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

**ATTENTION TO CONTRACTOR**

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM COORDINATES SHOWN.
- Contractor to ensure that the site is pegged and/or set out checked by the licenced surveyor responsible for certifying the Plan of Subdivision prior to underground infrastructure being installed.
- 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.

**SHEET INDEX**

SHT No.	VER	DESCRIPTION
1	I	DETAIL, PLAN, SERVICES OFFSETS & LOCALITY PLAN
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5	B	PLAYFIELD DRIVE (NORTH) & (NORTH-SOUTH) LONGITUDINAL SECTIONS
6	A	PLAYFIELD DRIVE (NORTH) & (NORTH-SOUTH) CROSS SECTIONS
7	A	PLAYFIELD DRIVE (NORTH-SOUTH) CROSS SECTIONS
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9	A	LUDO CIRCUIT - LONGITUDINAL SECTIONS
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11	A	DRAINAGE LONGITUDINAL SECTIONS
12	A	DRAINAGE LONGITUDINAL SECTIONS 2
13	B	DRAINAGE LONGITUDINAL SECTIONS 3
14	C	DRAINAGE LONGITUDINAL SECTIONS 4 & PIT SCHEDULE

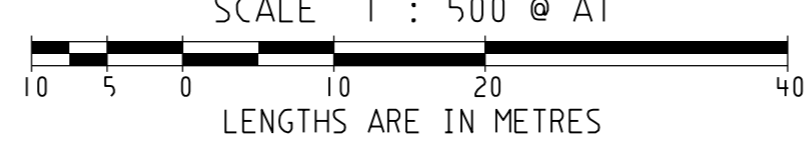


# Approximate field density test location

**PLAN**  
SCALE 1:500

**SERVICES OFFSETS AND LOCATIONS**

STREET NAME	Rd. RESERVE	WATER		GAS	ELECTRICITY		FIBRE TO THE HOME		Bk. of KERB	JOINT TRENCHING
		DW	NDW		POLES	FTTH	CABLES	FTTH		
PLAYFIELD DRIVE (NORTH)	14-50	2-70S	2-20S	1-70S	4-05S	1-00 BOK	3-55S	-	5-55S/7-15N	W & G, E & FTTH
PLAYFIELD DRIVE (NORTH-SOUTH)	16-00	3-20E	2-70E	2-25E	2-50W	1-00 BOK	1-85W	1-78E	4-35E/4-05W	W & G, E & FTTH
MITCHAM STREET	16-00	3-20N	2-70N	2-25N	2-50S	1-00 BOK	1-85S	1-78N	4-35W/4-05E	W & G, E & FTTH
LUDO CIRCUIT	16-00	3-20W	2-70W	2-25W	2-50E	1-00 BOK	1-85E	1-78W	4-35W/4-05E	W & G, E & FTTH



**SYMBOL LEGEND**

Prop	Exist	Ex/Natural/FS Level	FS @ Building Line
Drains	Sewer <300	Top/Toe of Batter	Top Ret. Wall Level
Sewer >300	Water	100yr Flood Level	Fill Prop/Ex (> 0.15m depth)
House Drain	Property Inlet	Cut Prop/Ex (> 0.15m depth)	Kerb Transition
Street Sign	Retaining Wall		
PSM	Conduits 50mm		
	Conduits 100mm		
	Ex Gas/Elect/Tel		
	TBM		

**AMENDMENTS**

VER	DATE	REMARKS
I	20/10/17	DRAINAGE LINE 37 TO 39 ADDED AT SUPERLOT C & SHEET INDEX AMENDMENTS
H	03/10/17	KALLIS STREET AMENDED TO MITCHAM STREET, SHEET INDEX & SERVICES OFFSETS TABLE AMENDMENTS
G	25/09/17	LOT 222 CROSSOVER & WATER CONDUIT LOCATION AMENDMENTS
F	31/08/17	LOT 201 CROSSOVER LOCATION AMENDED
E	14/07/17	SUPERLOT C HOUSE DRAIN AMENDMENTS
D	05/07/17	WATER CONDUIT LOCATION AMENDMENTS
C	02/05/17	SERVICES OFFSETS TABLE AMENDMENTS

**breese pitt dixon pty. ltd.**  
land surveyors civil engineers

MELWAY REF. 360-E-11

**ALBRIGHT ESTATE**  
STAGE 2

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

MUNICIPALITY  
**WYNDHAM**

REFERENCE  
9354 E/2

CHECKED  
SCALE AS SHOWN DATUM AHD DATE NOV 16 SHEET 1 OF 14





# COMPACTION ASSESSMENT

Job No 18063  
 Report No 18063/R001  
 Date Issued 13/12/2017

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	ALBRIGHT ESTATE - STAGE 2	Date tested	03/10/17
Location	TRUGANINA	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	10:00
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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 <sup>3</sup>	1.85	1.83	1.89	1.80	-	-
Field moisture content	%	27.0	27.7	29.3	30.3	-	-

### 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 <sup>3</sup>	1.87	1.87	1.88	1.82	-	-
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content	%	28.0	28.0	29.5	28.5	-	-

Moisture Variation From Optimum Moisture Content		1.0% dry	0.5% dry	0.0%	0.5% dry	-	-
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Density Ratio ( R <sub>HD</sub> )	%	99.0	98.0	100.5	99.0	-	-
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### Material description

No 1 - 4 Clay Fill
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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

Approved Signatory : Justin Fry