



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

26th August 2022

Our Reference: 22197:NB1268

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASPIRE – STAGE 29 (PLUMPTON)

Please find attached our Report No's 22197/R001 and 22197/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

SHEET No.	VER.	Description
1	A	LAYOUT PLAN
2	A	TYPICAL CROSS SECTIONS
3	A	ROAD PAVEMENT DETAILS & NOTES
4	A	ROAD PAVEMENT DETAILS
5	A	INTERSECTION DETAIL PLANS
6	A	LONGITUDINAL & INTERSECTION DETAILS ZLATAN WAY ACCESS LANEWAY
7	A	LONGITUDINAL & CROSS SECTIONS WALKSIDE BOULEVARD
8	A	LONGITUDINAL & CROSS SECTIONS ZLATAN WAY
9	A	LONGITUDINAL & CROSS SECTIONS SIENNA LANE
10	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
11	A	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
12	A	DRAINAGE PIT DETAILS
13	A	SIGNAGE & LINEMARKING PLAN
14	A	PASSIVE IRRIGATION PLAN
15	A	MOBILITY PLAN
16	A	EARTHWORKS PLAN



ATTENTION TO CONTRACTOR

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

NOTE:
KERB CUTOFF FOR PASSIVE IRRIGATION, REFER TO DETAIL ON SHEET 2, FINAL STREET PFT LOCATION TO BE COORDINATED WITH LANDSCAPE DRAWINGS.

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.

PRELIMINARY LEVELS TO BE ADJUSTED DURING THE DETAILED DESIGN PHASE ONCE LMV DRAINAGE SCHEME AND OVERLAND FLOWS HAVE BEEN APPROVED.

SERVICE OFFSETS AND LOCATION TABLE

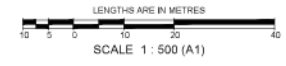
Location	Gas	Water		Telecommunications		Electricity		BOK	Road Width	Joint Trenching	Street Classification
		NDW	DW	Cables	Pits	Cables	Poles				
WALKSIDE BOULEVARD	2.10 N	2.00 N	1.80 S	1.80 S	2.30 S	1.50 BOK	4.20 N	16.00	OSW, FTTMSE	ACCESS PLACE	
ZLATAN WAY	2.10 N	2.00 N	1.80 S	1.80 S	2.30 S	1.50 BOK	4.20 N	16.00	OSW, FTTMSE	ACCESS PLACE	
ZLATAN WAY (LANEWAY)	2.10 N	2.00 N	1.80 S	1.80 S	1.50 S	-	4.20 N	12.00	OSW, FTTMSE	LANEWAY	
SIENNA LANE	-	-	-	-	1.50 W	1.50 W	5.50 E	6.00	-	-	LANEWAY
CHAMPION WALK	1.85 W	2.35 W	2.85 W	2.85W	3.35W	-	-	4.00	OSW, FTTMSE	-	

NOTE: * OFFSET FROM BACK OF KERB

Approximate field density test location

SYMBOL LEGEND

- Drains: Sewer < 3000, Sewer > 3000, Water (75%), Water (100%), House Drain, Property Meet, Street Slope, PSM, Rock Ret Wall, Sloped Ret Wall, Conduits 50mm, Conduits 100mm, Street Tree without Passive Irrigation (Pole), Ex Drains, Ex Water/DW/NDW, Ex Sewer/Gas, Ex Elect/Comm.
- Ex/Retard'd Level, FS @ Building Lins, Top/Top Baser Level, Top/Bottom RW Level, 100yr Flood Level, Fill Proposed (+0.3m to 0.3m), Cut Proposed, Asphalt Surface Prop, Concrete Surface Prop (Path/Oilweeds/Gladiol), Tree To Be Removed, Tree To Be Retained with Tree Protection Zone (TPZ).



PRELIMINARY

MELWAY REF. 358-C-1		breese pitt dixon pty. ltd. land surveyors civil engineers		1/19 calo street hawthorn east, 3123 telephone 8623 2300 fax no. 8623 2310	
SURVEY BPD		ASPIRE ESTATE STAGE 29 LAYOUT PLAN		MUNICIPALITY MELTON	
DESIGN J.B		REFERENCE 8226 E/29		DATE JULY '21	
DRAWN I.W		SCALE AS SHOWN DATUM AHD		SHEET 01 OF 16 A	
DATE	REMARKS	CHECKED C.HAGEN	DATE	DATE	DATE
21.02.2022	ISSUED FOR CONSTRUCTION				

PLAN
SCALE 1:500



COMPACTION ASSESSMENT

Job No 22197
 Report No 22197/R001
 Date Issued 26/08/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by AM
 Date tested 22/08/22
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project ASPIRE - STAGE 29
 Location PLUMPTON

Feature **EARTHWORKS** Layer thickness 200 mm Time: 14:22

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	1.96	1.96	1.93	1.94	1.94	1.92
Field moisture content %	26.9	27.3	28.0	28.6	31.3	29.3

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	1.97	1.97	1.97	1.93	1.97	1.95
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	27.0	28.0	28.0	29.5	31.5	29.5

Moisture Variation From Optimum Moisture Content	0.0%	0.5% dry	0.0%	1.0% dry	0.0%	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	99.0	98.0	100.5	98.0	98.5
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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 22197
 Report No 22197/R002
 Date Issued 26/08/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 29	Date tested	23/08/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 14:31
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	7	8	9	10	-	-
Location	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1		
Approximate depth below FSL						
Measurement depth <i>mm</i>	175	175	175	175	-	-
Field wet density <i>t/m³</i>	1.93	1.91	1.91	1.94	-	-
Field moisture content <i>%</i>	26.1	26.0	27.3	27.1	-	-

Test procedure AS 1289.5.7.1

Test No	7	8	9	10	-	-
Compactive effort	Standard					
Oversize rock retained on sieve <i>mm</i>	19.0	19.0	19.0	19.0	-	-
Percent of oversize material <i>wet</i>	0	0	0	0	-	-
Peak Converted Wet Density <i>t/m³</i>	1.96	1.93	1.92	1.96	-	-
Adjusted Peak Converted Wet Density <i>t/m³</i>	-	-	-	-	-	-
Optimum Moisture Content <i>%</i>	29.0	27.0	27.0	27.5	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	1.0% dry	0.0%	0.5% 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})	%	99.0	99.0	99.0	99.0	-	-
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Material description

No 7 - 10 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Approved Signatory : Justin Fry