

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

24th August 2021

Our Reference: 21465:NB1023

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING 85-109 FARM ROAD – STAGE 2B (WERRIBEE)

Please find attached our Report No's 21465/R001 and 21465/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 commenced in June 2021 and was completed in August 2021.

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).

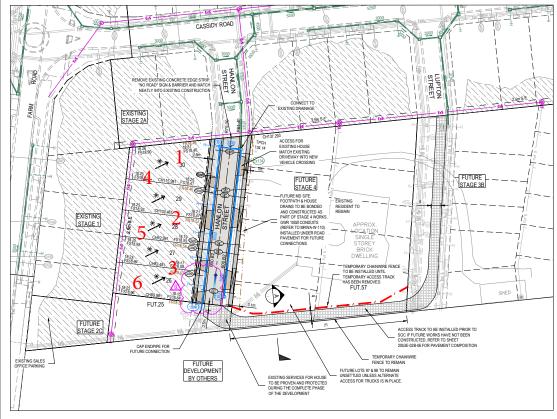
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

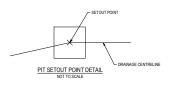
Civil Geotechnical Services

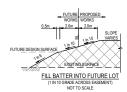
Nick Brock

FIGURE 1

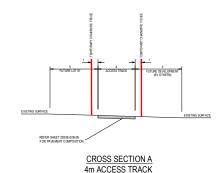


NOTE
ACCESS TO BE MANAGED FOR EXISTING LAND OWNER.
TO BE WORKED OUT BETWEEN CONTRACTOR AND
OWNER.





Approximate field density test location



	STORMWATER DRAIN, PIT
	& PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
● 5 → •	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
t	ELECTRICITY (U.GROUND)
—0/н —	ELECTRICITY (O.HEAD)
<u> </u>	GAS
— t —	TELSTRA
<u> </u>	OPTIC FIBRE
v_	WATER
RW	RECYCLE WATER
— Ag —	AG. DRAIN
-@V-	SERVICE CONDUITS
	TACTILE PAVERS
-	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
->>-	EXISTING SWALE DRAIN
O—€x 5—	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
—€х Е—	EXISTING ELECTRICITY (UNDER GROUND)
0/H E	EXISTING ELECTRICITY OVERHEAD
— E× G —	EXISTING GAS
—£x T—	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
—Ex 0—	
—Ex W—	EXISTING WATER
—Ех RW —	EXISTING RECYCLED WATER
—€х.Ад —	EXISTING AG. DRAIN
—(3WR)—	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
□-fut 0-Φ-	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
->	FUTURE SWALE DRAIN
O-FUT S -	FUTURE SEWER & MAINTENANCE
G-101 S	STRUCTURES
	FUTURE HOUSE DRAIN
Fut E	FUTURE ELECTRICITY (UNDER GROUND)
-Fut0/H E	FUTURE ELECTRICITY OVERHEAD
—Fut G —	FUTURE GAS
—Fut Т —	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
-Fut V	FUTURE WATER
—Fut RW —	FUTURE RECYCLED WATER
—Fut Ag —	FUTURE AG. DRAIN
-GMB)-	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
141.34	EXISTING SURFACE LEVEL
FS140.35	FINISHED BUILDING LINE LEVEL
FR157.40	FINISHED RIDGE LINE LEVEL
CH270.00	CHAINAGE
	TOP OF RETAINING WALL LEVEL
TW159.60	
BW159.00	BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
1.7	STRUCTURAL FILL > 200mm DEEP
EZZ31	EXISTING STRUCTURAL
1	FILL > 200mm DEEP
XX	CLIT > 200mm DEEP
LY	
\rightarrow	DIRECTION OF FALL
	OVERLAND FLOW
*	GRADED IN DIRECTION OF FALL
	TO LEVEL INDICATED
_	EDGE STRIP, SUBSOIL DRAIN,
	"NO ROAD" SIGN & BARRIER
(T)	EXISTING TREE
لخليكا	TO BE RETAINED
-40%	EXISTING TREE
	TO BE REMOVED
AME	
_	PERMANENT SURVEY MARK
٨	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
==	1
/	PROPOSED INDUSTRIAL DRIVEWAY
\perp	THO TOGED INDUSTRIAL DRIVENIAY
	PROPOSED SHARED FOOTPATH
_=	DECEMBED BOAD BAVING
	PROPOSED ROAD PAVING EXISTING ROAD PAVING

ISSUED FOR CONSTRUCTION

HANLON STREET

CHECKED AUTHORISED







85-109 Farm Road - Stage 2B Wyndham City Council Road and Drainage Layout Plan

205 G12 2053E-02B-02 02 of 07 REVISION

SERVICES OFFSET TABLE RECYCLED WATER

OFFSET (m)

 RESERVE WIDTH (m)
 ROPE WIDTH (m)
 KERR TYPE
 VERGE WIDTH (m)

 1600
 6.40
 7.30
 7.60
 600 R2
 600 R2
 4.35
 4.35
 4.05

ELECTRICITY

OFFSET (m)

2.45 E

OPTIC FIBRE

OFFSET (m)

1.85 E VERGE WIDTH (m)

WATER

3.10 W

ROAD WIDTH (m)



COMPACTION ASSESSMENT

Job No 21465 CIVIL GEOTECHNICAL SERVICES Report No 21465/R001 Date Issued 13/07/2021 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by BGG Client Project 85 - 109 FARM ROAD - STAGE 2B Date tested 29/06/21 **WERRIBEE** Location Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 15:52

Test No		1	2	3	-	-	-
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/m³	2.09	2.09	2.07	-	-	-
Field moisture content	%	14.0	15.4	13.8	_	_	_
rieia moisture content	70	1 1.0	10.4	10.0			
Test procedure AS 1289.5.7.1 Test No	70	1	2	3	-	-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort	70	1	2	3 Stan		-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	mm	19.0	2	3 Stan 19.0		-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	mm wet	1 19.0 0	2 19.0 0	3 Stan 19.0	dard - -	-	-
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	mm wet t/m³	1 19.0 0 2.20	2 19.0 0 2.19	3 Stan 19.0	dard - - -	- - -	
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	1 19.0 0 2.20	2 19.0 0 2.19	3 Stan 19.0 0 2.16	dard - -	- - -	
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	1 19.0 0 2.20	2 19.0 0 2.19	3 Stan 19.0	dard - - -	- - -	
Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	mm wet t/m³	1 19.0 0 2.20	2 19.0 0 2.19	3 Stan 19.0 0 2.16	dard - - -	- - -	

Material description

No 1 - 3 Clay Fill

NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 21465 CIVIL GEOTECHNICAL SERVICES Report No 21465/R002 Date Issued 24/08/2021 6 - 8 Rose Avenue, Croydon 3136 WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD) Tested by Client BGG Project 85 - 109 FARM ROAD - STAGE 2B Date tested 12/08/21 **WERRIBEE** Location Checked by JHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:35

Test No		4	5	6	-	-	-
Location		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
Approximate depth holey, FCI							
Approximate depth below FSL							1
Approximate depth below FSL Measurement depth	mm	175	175	175	-	-	-
• • • • • • • • • • • • • • • • • • • •	mm t/m³	175 2.00	175 2.02	175 2.01	-	-	-
Measurement depth Field wet density					<u>-</u> -	- - -	-
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1	t/m³	2.00	2.02	2.01	-		-
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No	t/m³	2.00 16.4	2.02 16.9	2.01 15.8	-		
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort	t/m³	2.00 16.4	2.02 16.9	2.01 15.8	-		
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve	t/m³ %	2.00	2.02 16.9	2.01 15.8 6 Stan	- - dard	-	-
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material	t/m³ % mm	2.00 16.4 4 19.0	2.02 16.9 5	2.01 15.8 6 Stan 19.0	- - dard	-	-
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density	t/m³ % mm wet	2.00 16.4 4 19.0 0	2.02 16.9 5 19.0 0	2.01 15.8 6 Stan 19.0 0	- - dard -	- - -	
Measurement depth	t/m³ % mm wet t/m³	2.00 16.4 4 19.0 0	2.02 16.9 5 19.0 0	2.01 15.8 6 Stan 19.0 0 2.10	- - dard - -	- - -	- - -
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	2.00 16.4 4 19.0 0 2.08	2.02 16.9 5 19.0 0 2.10	2.01 15.8 6 Stan 19.0 0 2.10	- - dard - - -	- - - -	- - - -
Measurement depth Field wet density Field moisture content Test procedure AS 1289.5.7.1 Test No Compactive effort Oversize rock retained on sieve Percent of oversize material Peak Converted Wet Density Adjusted Peak Converted Wet Density	mm wet t/m³	2.00 16.4 4 19.0 0 2.08	2.02 16.9 5 19.0 0 2.10	2.01 15.8 6 Stan 19.0 0 2.10	- - dard - - -	- - - -	- - - -

Material description

No 4 - 6 Clay Fill

NATA Accredited Laboratory No 9909
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ISO/IEC 17025 - Testing

AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry