



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

22nd October 2020

Our Reference: 20138:NB833

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
GRACE – STAGE 6 (TARNEIT)**

Please find attached our Report No's 20138/R001 which relates 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 October 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).

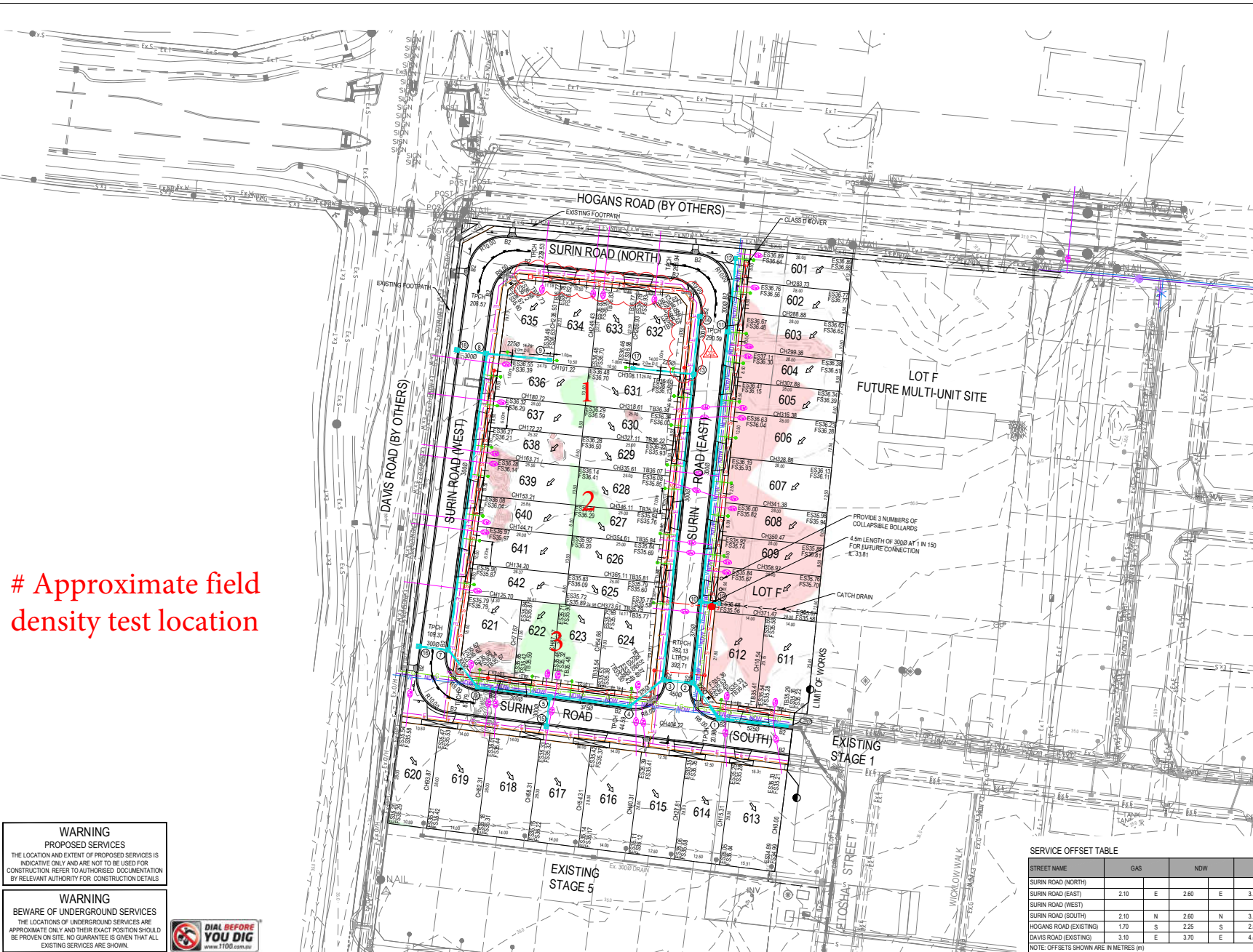
Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

A handwritten signature in blue ink, appearing to be 'Nick Brock', written in a cursive style.

Nick Brock

FIGURE 1



Approximate field density test location

ROADWORKS LEGEND

- BE KERB & CHANNEL - (AS NOTED)
- TRANSITION KERB
- PROPOSED DRIVEWAY CROSSING
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW BATTER
- EXISTING STORMWATER DRAIN PIT AND PROPERTY INLET
- OR
- STORMWATER DRAIN, PIT AND PROPERTY INLET
- HOUSE DRAIN
- SEWER, MAINTENANCE STRUCTURES AND PROPERTY CONNECTION
- SHALE DRAIN INVERT AND DIRECTION OF FLOW
- PSM PERMANENT SURVEY MARK (PSM)
- TEMPORARY BENCH MARK (TBM)
- ES200.000 EXISTING SURFACE LEVEL
- FS000.000 FINISHED SURFACE LEVEL
- TS000.000 TOP OF TIE OF BATTER LEVEL
- STORMWATER PIT NO.
- TACTILE PAVERS
- UTILITIES CONDUIT (100mm)
- STREET SIGN
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN
- 'NO ROAD' SIGN & BARRIER
- PROPOSED RETAINING WALL
- 97.0 NEW FINISHED SURFACE CONTOUR
- 95.2 EXISTING SURFACE CONTOUR
- LIMIT OF WORKS
- PROPOSED ELECTRICITY
- PROPOSED GAS
- PROPOSED SEWER < 300mm
- BRANCH SEWER > 300mm
- PROPOSED TELECOMMUNICATIONS
- PROPOSED WATER
- PROPOSED NON-DRINKING WATER
- Ex E EXISTING ELECTRICITY
- Ex G EXISTING GAS
- Ex S EXISTING SEWER
- Ex T EXISTING TELECOMMUNICATIONS
- Ex W EXISTING WATER
- Ex NDW EXISTING NON-DRINKING WATER
- EXISTING TREE
- EXISTING TREE TO BE REMOVED

EARTHWORKS LEGEND

- LOT FILL (FILL GREATER THAN 200mm DEEP)
- LOT CUT (CUT GREATER THAN 200mm DEEP)

WARNING
PROPOSED SERVICES
THE LOCATION AND EXTENT OF PROPOSED SERVICES IS INDICATIVE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. REFER TO AUTHORISED DOCUMENTATION BY RELEVANT AUTHORITY FOR CONSTRUCTION DETAILS.

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS 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.



SERVICE OFFSET TABLE

STREET NAME	GAS	NDW	WATER	TELECOMMS.	ELECTRICITY				
					POLE	S	W	S	
SURIN ROAD (NORTH)				1.85	S	3.05	S	2.65	S
SURIN ROAD (EAST)	2.10	E	2.60	E	3.10	E	1.85	W	2.65
SURIN ROAD (WEST)				1.85	E	3.05	E	2.65	E
SURIN ROAD (SOUTH)	2.10	N	2.60	N	3.10	N	1.85	S	2.65
HOGANS ROAD (EXISTING)	1.70	S	2.25	S	2.80	S			
DAVIS ROAD (EXISTING)	3.10	E	3.70	E	4.40	E			

NOTE: OFFSETS SHOWN ARE IN METRES (m)

REV	DESCRIPTION	BY	APP	DATE
01	PRELIMINARY ISSUE	CT	OK	23/11/19
02	PRELIMINARY ISSUE - EXISTING DRAINAGE PROVISION AND BOLLARDS ADDED	CT	OK	25/01/20
03	ISSUE FOR CONSTRUCTION	CT	OK	28/02/20
04	SEWER MOVED TO FRONT OF LOT 639-486	CT	OK	28/03/20

GRACE
TARNEIT

MEINHARDT
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CLIENT
TARNET PROJECTS PTY LTD
P.O. BOX 8023
CAMERONVILLE NORTH, VIC. 3124

TITLE
LAYOUT PLAN

PROJECT
GRACE - STAGE 6
605 HOGANS ROAD, TARNEIT
WYNDHAM CITY COUNCIL

STATUS
FOR CONSTRUCTION

DESIGNED CY	DRAWN CY	APPROVED RP
PROJECT NO. 114652-06	DRAWING NO. C100	REV C02

SCALE @ AT SHOWN
2 OF 14



COMPACTION ASSESSMENT

Job No 20138
 Report No 20138/R001
 Date Issued 21/10/2020

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	GRACE - STAGE 6	Date tested	15/10/20
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:30
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Test procedure AS 1289.2.1.1 & 5.8.1

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/m ³	1.82	1.85	1.79	-	-
Field moisture content	%	22.7	20.5	22.1	-	-

Test procedure AS 1289.5.7.1

Test No	1	2	3	-	-	-
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	1.88	1.89	1.82	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	24.5	23.0	24.0	-	-

Moisture Variation From Optimum Moisture Content	2.0% dry	2.5% dry	2.0% dry	-	-	-
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Density Ratio (R _{HD})	%	97.0	97.5	98.0	-	-
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Material description

No 1 - 3 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