



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

21st February 2022

Our Reference: 21262:NB1154

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
TRIJENA – STAGE 11 (MICKLEHAM)**

Please find attached our Report No 21262/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 November 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

A handwritten signature in blue ink, appearing to read 'Nick Brock', is written over a faint blue line.

Nick Brock



COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Job No 21262
Report No 21262/R001
Date Issued 24/01/2022

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AC
Project	TRIJENA - STAGE 11	Date tested	16/11/21
Location	MICKLEHAM	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:56
---------	------------	-----------------	--------	-------------

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
Field wet density	t/m ³	1.95	1.97	1.94	1.89	1.95
Field moisture content	%	20.3	19.2	21.4	14.8	14.5

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
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m ³	2.01	1.99	2.02	1.95	2.01
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	23.0	21.5	23.5	17.0	17.0

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.0% dry	2.0% dry	2.5% dry	2.0% dry
--	----------	----------	----------	----------	----------	----------

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})	%	97.0	99.0	96.5	96.5	97.0	95.5
-----------------------------------	---	------	------	------	------	------	------

Material description

No 1 - 6 Clay Fill

AVRLOT HILF V1.10 MAR 13

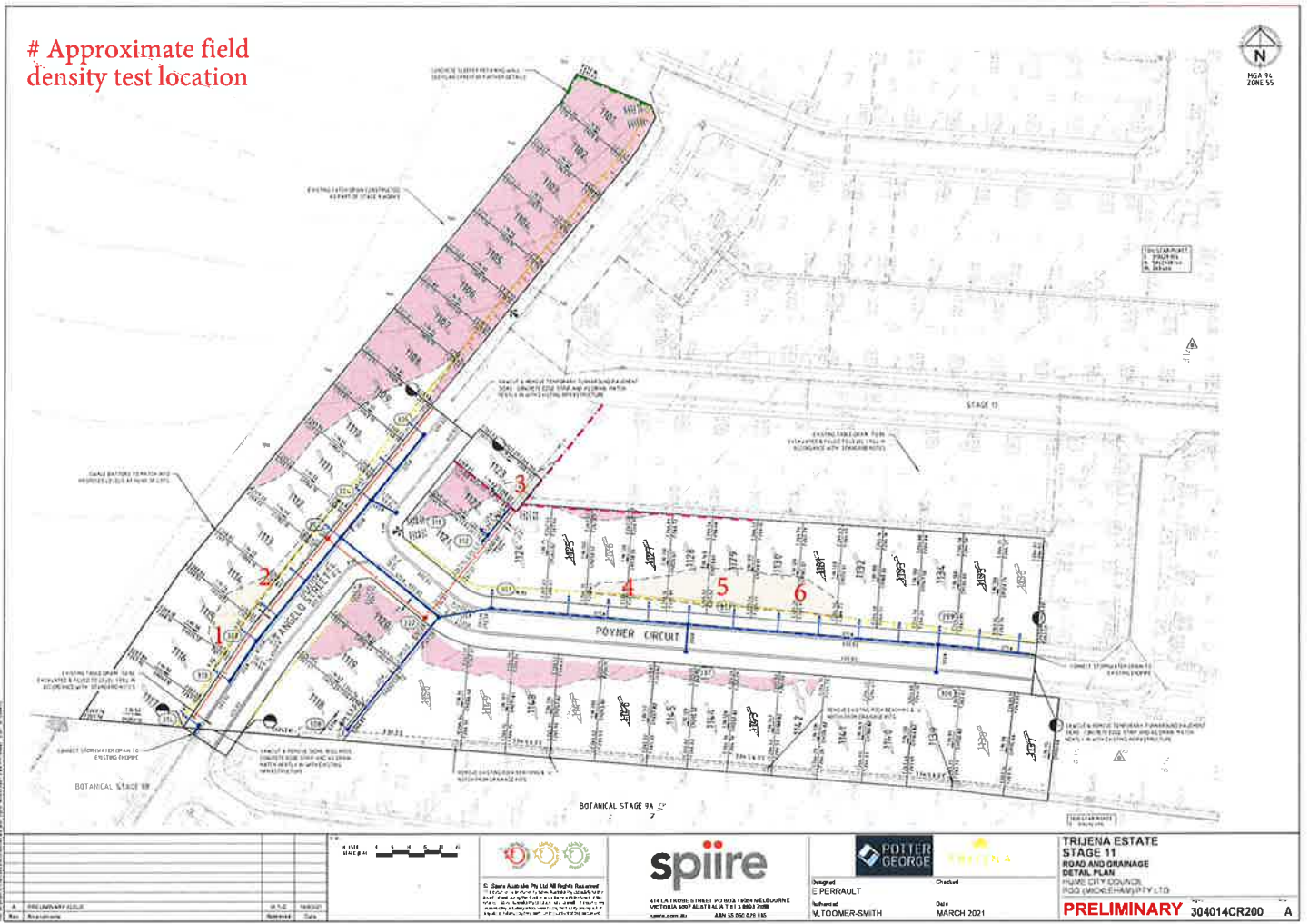


NATA Accredited Laboratory No 9909
Accredited for compliance with
ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry

FIGURE 1

Approximate field density test location



Rev	Description	By	Date
1	PRELIMINARY FILE	M.A.C.	18/03/21
2	Revised	Revised	20/03/21



spiire
411 LA TROUE STREET DOONBROOK VICTORIA 3009 AUSTRALIA T +61 3 9003 7000
www.spiire.com.au ABN 55 926 876 185

Designed by PERRAULT
M.TODNER-SMITH

Checked by POTTER GEORGE
Writina

Date: MARCH 2021

TRUENA ESTATE
STAGE 11
ROAD AND DRAINAGE
DETAIL PLAN
HUME CITY COUNCIL
RGO (MICHEHAM) PTY LTD
PRELIMINARY 304014CR200 A



- Construction Layer
- Capping Layer
- Class 3
- Class 2

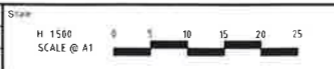


TBM STAR PICKET
E 313629.355
N 584.2908.146
RL 263.466

TBM STAR PICKET
E 313626.070

File name: 304014CR200.dwg, Sheet name: CR200, plotted by: P. Perrault, File location: G:\304014\304014\304014\304014.dwg, scale: 31/05/2021 15:01 PHS Sheet: 2 of 14 Sheets

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	M.T.S	01/06/21
C	PIPE SIZE ADDED, PIT 315 LOCATION AMENDED	M.T.S	21/05/21
B	AMENDED AS PER COUNCIL COMMENTS	M.T.S	26/04/21
A	PRELIMINARY ISSUE	M.T.S	16/03/21



© Spiire Australia Pty Ltd All Rights Reserved
This document is prepared by Spiire Australia Pty Ltd solely for the use of the project and is not to be used for any other purpose without the written consent of Spiire Australia Pty Ltd. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party as a result of any use or reliance by any party on the content of this document.

spiire
414 LA TROBE STREET PO BOX 16084 MELBOURNE
VICTORIA 8007 AUSTRALIA T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

POTTER GEORGE
Designed
E. PERRAULT
Authorised
M. TOOMER-SMITH

TRIJENA
Checked
Date
MARCH 2021

**TRIJENA ESTATE
STAGE 11
ROAD AND DRAINAGE
DETAIL PLAN**
HUME CITY COUNCIL
PGG (MICKLEHAM) PTY LTD

CONSTRUCTION 304014CR200

Rev No 0