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

4th October 2021

Our Reference: 21480:NB1078

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
EYNESBURY – STAGE 6E (EYNESBURY)

Please find attached our Report No's 21480/R001 to 21480/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 July 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).

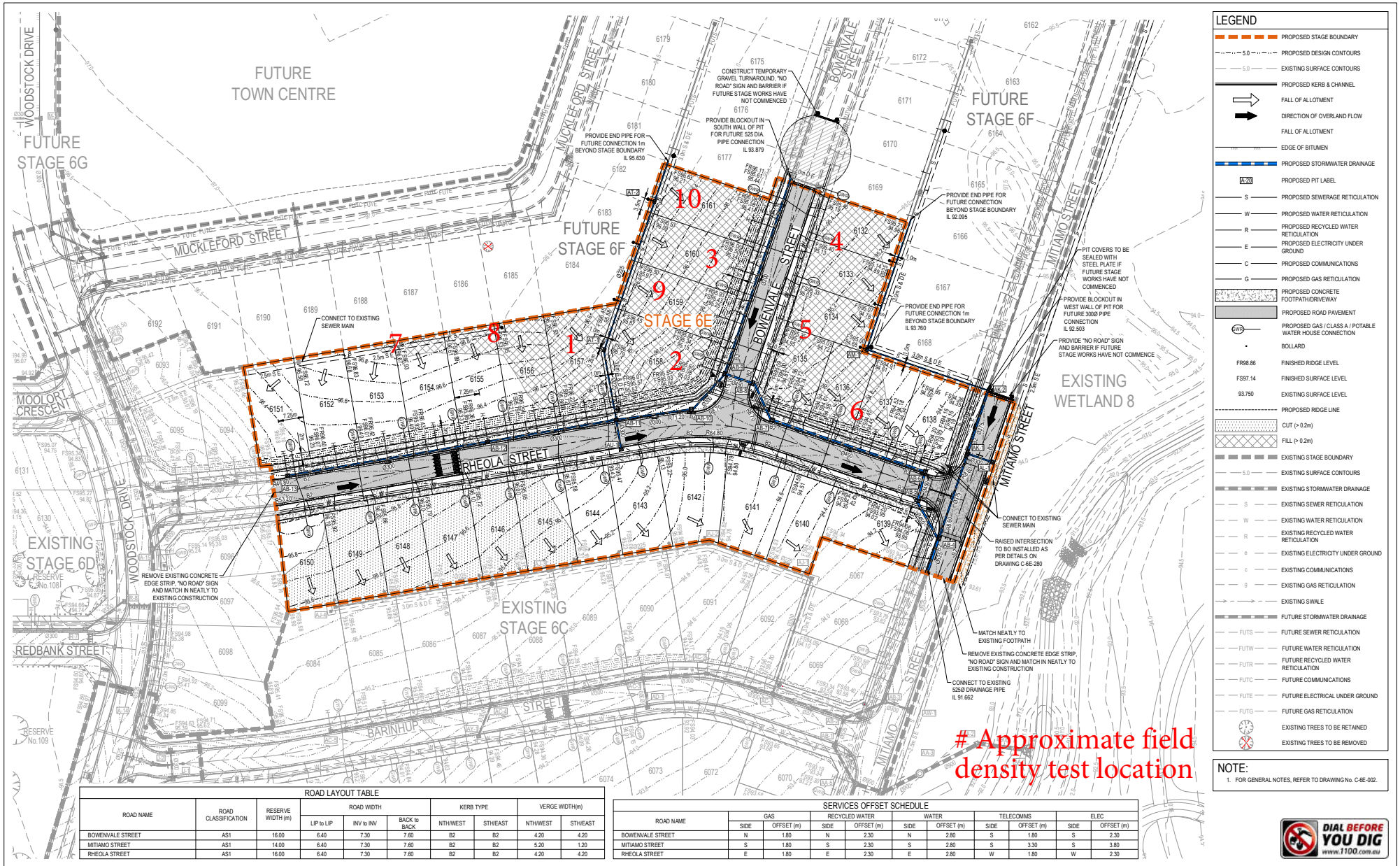
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1



LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED DESIGN CONTOURS
- EXISTING SURFACE CONTOURS
- PROPOSED KERB & CHANNEL
- FALL OF ALLOTMENT
- DIRECTION OF OVERLAND FLOW
- FALL OF ALLOTMENT
- EDGE OF BITUMEN
- PROPOSED STORMWATER DRAINAGE
- A-20 PROPOSED PIT LABEL
- S PROPOSED SEWERAGE RETICULATION
- W PROPOSED WATER RETICULATION
- R PROPOSED RECYCLED WATER RETICULATION
- E PROPOSED ELECTRICITY UNDER GROUND
- C PROPOSED COMMUNICATIONS
- G PROPOSED GAS RETICULATION
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- PROPOSED ROAD PAVEMENT
- PROPOSED GAS / CLASS A / POTABLE WATER HOUSE CONNECTION
- BOLLARD
- FR98.86 FINISHED RIDGE LEVEL
- FS97.14 FINISHED SURFACE LEVEL
- 93.750 EXISTING SURFACE LEVEL
- PROPOSED RIDGE LINE
- CUT (> 0.2m)
- FILL (> 0.2m)
- EXISTING STAGE BOUNDARY
- EXISTING SURFACE CONTOURS
- EXISTING STORMWATER DRAINAGE
- EXISTING SEWER RETICULATION
- EXISTING WATER RETICULATION
- EXISTING RECYCLED WATER RETICULATION
- EXISTING ELECTRICITY UNDER GROUND
- EXISTING COMMUNICATIONS
- EXISTING GAS RETICULATION
- EXISTING SWALE
- FUTURE STORMWATER DRAINAGE
- FUTS FUTURE SEWER RETICULATION
- FUTW FUTURE WATER RETICULATION
- FUTR FUTURE RECYCLED WATER RETICULATION
- FUTC FUTURE COMMUNICATIONS
- FUTE FUTURE ELECTRICAL UNDER GROUND
- FUTG FUTURE GAS RETICULATION
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED

NOTE:
1. FOR GENERAL NOTES, REFER TO DRAWING No. C-6E-002.

ROAD LAYOUT TABLE

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH			KERB TYPE		VERGE WIDTH(m)	
			LIP to LIP	INV to INV	BACK to BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
BOWENVALE STREET	AS1	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
MITIAMO STREET	AS1	14.00	6.40	7.30	7.60	B2	B2	5.20	1.20
RHEOLA STREET	AS1	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		WATER		TELECOMMS		ELEC	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
BOWENVALE STREET	N	1.80	N	2.30	N	2.80	S	1.80	S	2.30
MITIAMO STREET	S	1.80	S	2.30	S	2.80	S	3.30	S	3.80
RHEOLA STREET	E	1.80	E	2.30	E	2.80	W	1.80	W	2.30

DIAL BEFORE YOU DIG www.1100.com.au

Issue	Description	By	Ckd	PM	Date
A	ISSUED FOR CONSTRUCTION	WB	ZS	JM	31.05.21
02	UPDATES TO ADDRESS COUNCIL COMMENTS	WB	ZS	JM	13.04.21
01	ISSUED FOR APPROVAL	MD	ZS	JM	25.02.21

100mm on Original

Scale: 1 : 500 (0 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-06e-220-10029435-Roadworks&DrainagePlan.dwg

Client: RESIMAX GROUP

Status: FOR CONSTRUCTION

Verifier: Z.STROGUSZ

Scales	1:500	Original Issue Signatures
Original Size	A1	Drawn E.PON
Height Datum	AHD	Designed K.ANGELES
Grid	MGA	Project Manager J.MUNRO

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Project: EYNESBURY TOWNSHIP STAGE 6E

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 32, 140 William Street
Melbourne VIC 3000
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No.	Project No.	Issue
C-6E-220	10029435	A

Last Saved: WBMN1953 Date Plotted: 13 Apr 2021 - 01:47PM File Name: C:\12dSW\data\AUSY01APP04\10029435-Eynesbury_46\D-DigEng\DA-CAD\DAC-Drawings\10029435-06\10029435-06E\c-06e-220-10029435-Roadworks&DrainagePlan.dwg V1

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	21480
		Report No	21480/R001
		Date Issued	22/09/2021
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 6E	*Date tested*	23/07/21
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 07:30

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/m³*	1.96	1.94	1.88	1.95	1.94	1.99
Field moisture content	*%*	21.9	23.1	23.6	22.4	23.8	23.4

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/m³*	2.02	1.99	1.93	2.01	1.99	2.02
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	24.0	25.5	26.5	25.5	26.5	25.0

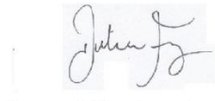
Moisture Variation From Optimum Moisture Content		2.0% dry	2.5% dry	2.5% dry	2.5% dry	2.5% dry	1.5% dry
Density Ratio (R_{HD})	*%*	**97.0**	**98.0**	**97.5**	**97.0**	**97.5**	**98.5**

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

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	21480
		Report No	21480/R002
		Date Issued	19/08/2021
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 6E	*Date tested*	26/07/21
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 08:00

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	*mm*	175	175	175	175	-	-
Field wet density	*t/m³*	1.77	1.82	1.80	1.79	-	-
Field moisture content	*%*	25.9	25.5	25.7	25.7	-	-

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	-	-
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/m³*	1.80	1.84	1.84	1.84	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	27.0	27.0	28.0	28.0	-	-

Moisture Variation From Optimum Moisture Content		1.0% dry	1.5% dry	2.5% dry	2.5% dry	-	-

Density Ratio (R_{HD})	*%*	**98.5**	**98.5**	**98.0**	**97.5**	**-**	**-**

Material description

No 7 - 10 Clay Fill

Approved Signatory : Justin Fry