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

28th February 2024

Our Reference: 23262:NB1800

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
EYNESBURY – STAGE 18C (EYNESBURY)

Please find attached our Report No's 23262/R001 to 23262/R004 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 commenced in May 2023 and was completed in July 2023.

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).

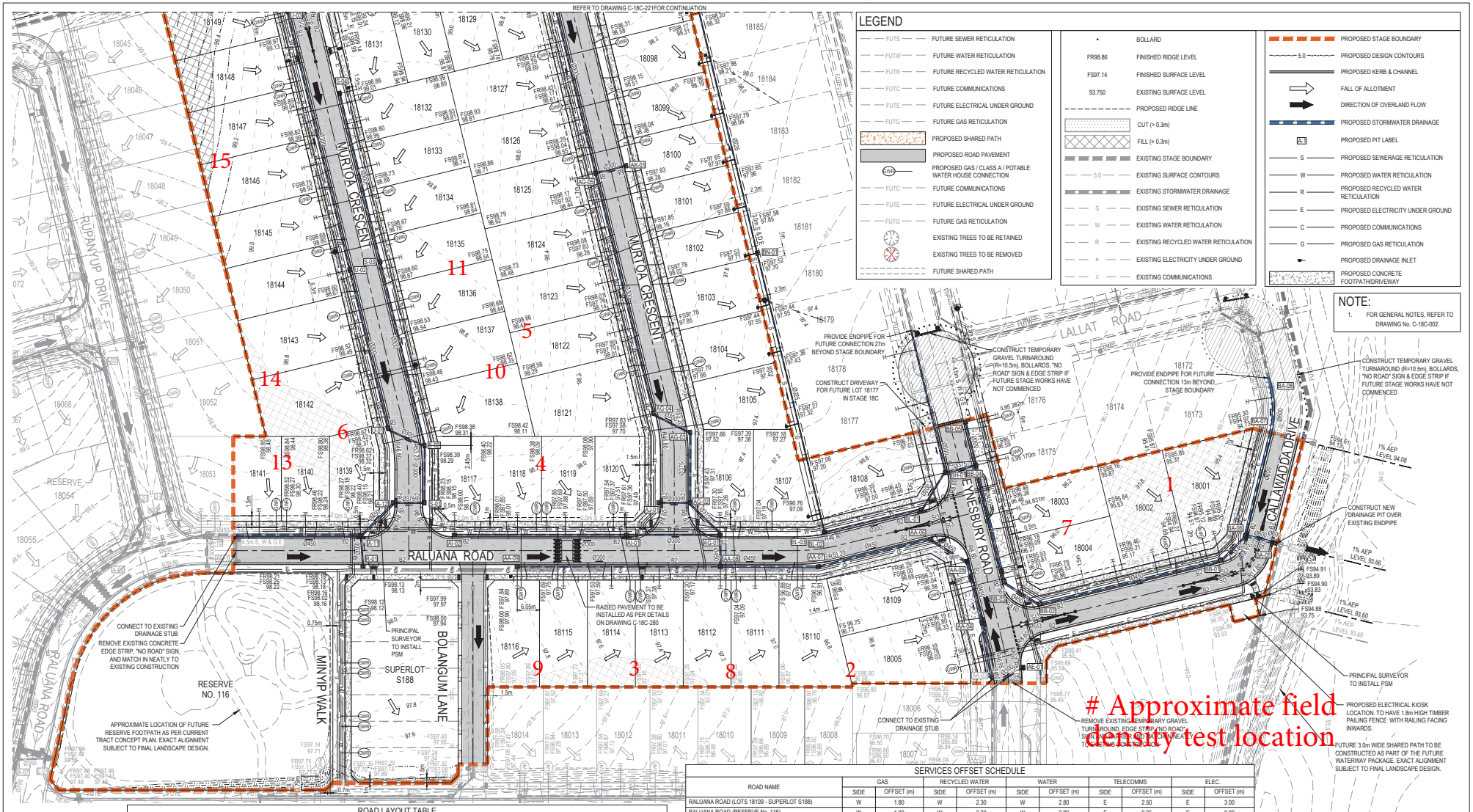
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1 (1 of 2)



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
RALUANA ROAD (LOTS 18109-SUPERLOT S188)	AS2	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
RALUANA ROAD (RESERVE No. 116)	AS2	14.00	6.40	7.30	7.60	B2	B2	4.35	2.35
EYNESBURY ROAD	AS2	20.60	6.40	7.30	7.60	B2	B2	6.50	6.50
MOYREISK CLOSE	AL	13.50	5.50	-	-	-	-	7.00	1.00
MURTOA CRESCENT (LOTS 18121-18127 & 18132-18138)	AS1	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35
MURTOA CRESCENT (LOTS 18128-18131)	AS1	14.00	6.40	7.30	7.60	B2	B2	2.35	4.35
CALLAWADDA DRIVE	AS1	16.00	6.40	7.30	7.60	B2	B2	4.35	4.35

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)
RALUANA ROAD (LOTS 18109 - SUPERLOT S188)	W	1.80	W	2.30	W	2.80	E	2.50	E	3.00
RALUANA ROAD (RESERVE No. 116)	W	1.80	W	2.30	W	2.80	E	0.25	E	0.90
EYNESBURY ROAD	N	1.80	N	2.30	N	2.80	S	1.85	S	2.80
MOYREISK CLOSE	W	3.90	W	3.40	W	2.90	W	1.80	W	2.25
MURTOA CRESCENT (LOTS 18121-18127 & 18132-18138)	S	1.80	S	2.30	S	2.80	N	1.80	N	2.30
MURTOA CRESCENT (LOTS 18128-18131)	E	1.80	E	2.30	E	2.80	W	0.50	W	1.00
CALLAWADDA DRIVE (EAST)	W	1.80	W	2.30	W	2.80	E	1.80	E	2.30
CALLAWADDA DRIVE (NORTH)	W	1.80	W	2.25	W	2.70	W	3.20	W	3.70
MINYIP WALK	N	1.80	N	2.30	N	2.80	N	3.30	N	3.80
BOLANGUM LANE	-	-	-	-	-	-	-	-	N	0.50
RESERVE No. 115	-	-	-	-	-	-	-	-	E	0.75

Issue	Description	By	Ckd	PM	Date
A	ISSUED FOR CONSTRUCTION	WB	JR	SE	01.12.22
03	UPDATES TO ADDRESS COUNCIL COMMENTS	MMR	JR	SE	03.10.22
02	UPDATES TO ADDRESS COUNCIL COMMENTS	CM	JR	SE	02.08.22
01	ISSUED FOR APPROVAL	CM	ZS	SE	08.04.22

100mm on Original

Scale: 0 5 10 20 30 40 50m — 1 : 500

Planner: RobertsDay planning·design·place

Client: RESIMAX GROUP

Filename C-18c-220-10029435-Roadworks&DrainagePlan.dwg

Status: FOR CONSTRUCTION

Checker: J.ROCK

Scales: 1:500 — Original Issue Signatures

Original Size: A1

Height Datum: AHD

Grid: MGA

Drawn: C.MENEZ

Designed: R.J.ANGELES

Project Manager: S.EISEL

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Project: EYNESBURY TOWNSHIP STAGE 18C

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
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376-390 Collins Street
Melbourne VIC 3000 Australia
ABN 76 104 485 289
Tel No: +61 3 8623 4000
www.arcadis.com

Drawing No.	Project No.	Issue
C-18C-220	10029435	A

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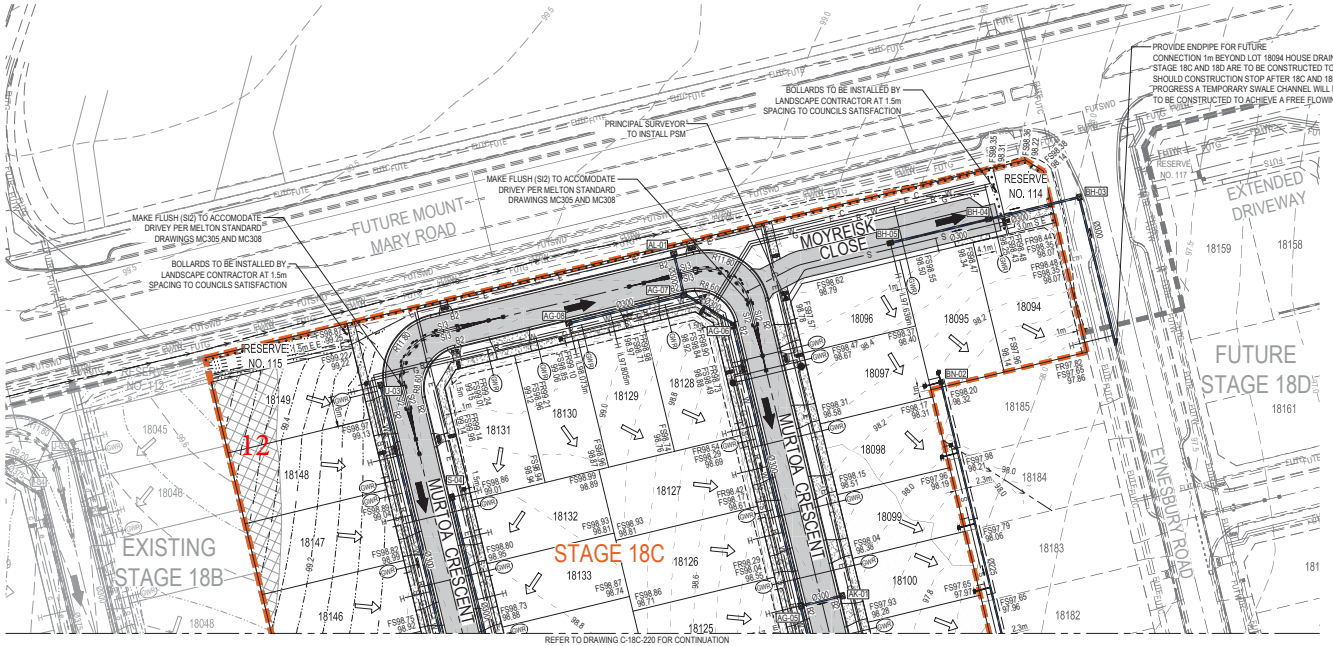
Last Saved: WBMIN1953 Date Plotted: 1 Dec 2022 - 03:51pm File Name: C:\Users\wbmn1953\ACCDocs\Arcadis\A-AU-10029435-Eynesbury Estate\Project Files\01_WORK IN PROGRESS\01_Civil_CV\Stage18_19\Stage18C\c-18c-220-10029435-Roadworks&DrainagePlan.dwg V1

FIGURE 1 (2 of 2)



Approximate field density test location

LEGEND

- PROPOSED STAGE BOUNDARY
- PROPOSED DESIGN CONTOURS
- PROPOSED KERB & CHANNEL
- FALL OF ALLOTMENT
- DIRECTION OF OVERLAND FLOW
- PROPOSED STORMWATER DRAINAGE
- PROPOSED PIT LABEL
- PROPOSED SEWERAGE RETICULATION
- PROPOSED WATER RETICULATION
- PROPOSED RECYCLED WATER RETICULATION
- PROPOSED ELECTRICITY UNDER GROUND
- PROPOSED COMMUNICATIONS
- PROPOSED GAS RETICULATION
- PROPOSED DRAINAGE INLET
- PROPOSED CONCRETE FOOTPATH/DRIVEWAY
- PROPOSED SHARED PATH
- 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 (> 0.3m)
- FILL (> 0.3m)
- 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
- FUTURE SEWER RETICULATION
- FUTURE WATER RETICULATION
- FUTURE RECYCLED WATER RETICULATION
- FUTURE COMMUNICATIONS
- FUTURE ELECTRICAL UNDER GROUND
- FUTURE GAS RETICULATION
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED
- FUTURE SHARED PATH

NOTE:
1. FOR GENERAL NOTES, REFER TO DRAWING No. C-18C-002.

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Issue	Description	By	Ckd	PM	Date
A	ISSUED FOR CONSTRUCTION	WB	JR	SE	01.12.22
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100mm on Original

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Planner: RobertsDay planning·design·place

Filename C-18c-220-10029435-Roadworks&DrainagePlan.dwg

Client: RESIMAX GROUP

Status: FOR CONSTRUCTION

Checker: J.ROCK

Scales: 1:500 (Original Size A1)

Height Datum: AHD

Grid: MGA

Original Issue Signatures: Drawn C.MENEZ; Designed R.J.ANGELES; Project Manager S.EISEL

Project: EYNESBURY TOWNSHIP STAGE 18C

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 2

ARCADIS
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Drawing No.	Project No.	Issue
C-18C-221	10029435	A

Last Saved: WBMIN1953 Date Plotted: 1 Dec 2022 - 03:46pm File Name: C:\Users\wbmn1953\ACCDocs\Arcadis\A-AU-10029435-Eynesbury Estate\Project Files\01_WORK IN PROGRESS\01_Civil_CV\Stage18_19\Stage18C\c-18c-220-10029435-Roadworks&DrainagePlan.dwg V1

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23262
		Report No	23262/R001
		Date Issued	22/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 18C	Date tested	05/05/23
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		**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*	1.83	1.84	1.80	-	-	-
Field moisture content	*%*	20.8	24.0	25.5	-	-	-

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/m³*	1.88	1.86	1.84	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	22.5	23.5	28.0	-	-	-

Moisture Variation From Optimum Moisture Content	1.5% dry	0.0%	2.5% 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**	**98.5**	**-**	**-**	**-**

Material description

No 1 - 3 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23262
		Report No	23262/R002
		Date Issued	22/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 18C	Date tested	09/05/23
Location	EYNESBURY	Checked by	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	10:06

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**4**	**5**	**6**	**-**	**-**	**-**
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*	2.04	2.03	2.03	-	-	-
Field moisture content	*%*	25.8	23.7	26.1	-	-	-

Test procedure AS 1289.5.7.1

Test No		4	5	6	-	-	-
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/m³*	2.07	2.03	2.02	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	28.5	26.5	29.0	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.5% 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})	*%*	**98.5**	**100.0**	**100.5**	**-**	**-**	**-**

Material description

No 4 - 6 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23262
		Report No	23262/R003
		Date Issued	11/07/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 18C	*Date tested*	06/07/23
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 08:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**7**	**8**	**9**	**10**	**11**	**12**
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*	1.80	1.78	1.78	1.77	1.77	1.75
Field moisture content	*%*	26.4	27.4	26.9	28.5	28.2	25.6

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	11	12
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*	1.86	1.84	1.82	1.79	1.78	1.78
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	28.5	29.0	29.0	31.0	29.0	28.0

Moisture Variation From Optimum Moisture Content		2.0% dry	1.5% dry	2.0% dry	2.5% dry	1.0% dry	2.5% 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**	**97.0**	**98.0**	**99.0**	**99.5**	**98.5**

Material description

No 7 - 12 Clay Fill

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	23262
		Report No	23262/R004
		Date Issued	11/07/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	WS
Project	EYNESBURY - STAGE 18C	Date tested	06/07/23
Location	EYNESBURY	Checked by	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	08:30

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**13**	**14**	**15**	**-**	**-**	**-**
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*	1.86	1.84	1.85	-	-	-
Field moisture content	*%*	28.8	31.2	30.7	-	-	-

Test procedure AS 1289.5.7.1

Test No		13	14	15	-	-	-
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/m³*	1.88	1.87	1.87	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	31.5	32.0	32.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	1.0% 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})	*%*	**99.0**	**98.5**	**99.0**	**-**	**-**	**-**

Material description

No 13 - 15 Clay Fill

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

Approved Signatory : Justin Fry