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: 23261:NB1799

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

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

Please find attached our Report No's 23261/R001 to 23261/R007 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 March 2023 and was completed in April 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).

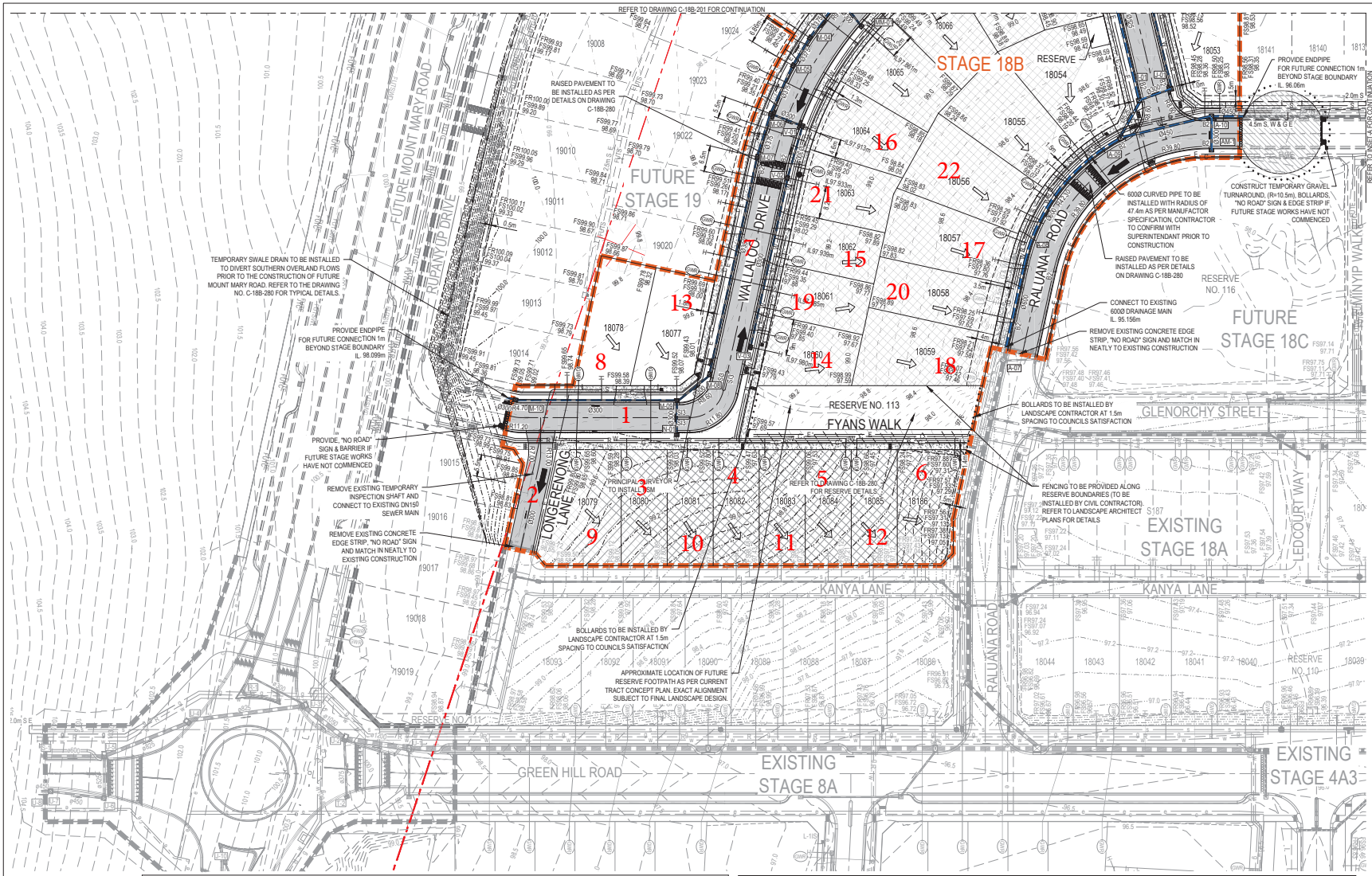
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1 (1 of 2)



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
- FINISHED RIDGE LEVEL
- FINISHED SURFACE LEVEL
- EXISTING SURFACE LEVEL
- PROPOSED RIDGE LINE
- PROPOSED SWALE
- 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
- MUNICIPAL BOUNDARY

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

DIAL BEFORE YOU DIG www.1100.com.au

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/WE ST	STH/EAS T	NTH/WE ST	STH/EAS T
RUPANYUP DRIVE (18045-18053)	AS2	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
RUPANYUP DRIVE (18069-18070)	AS1	14.00	6.40	7.30	7.60	B2	B2	1.20	5.20
WALLALOO DRIVE	AS1	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
RALUANA ROAD (RESERVE)	AS2	14.00	6.40	7.30	7.60	B2	B2	4.20	2.20
LONGERENONG LANE	AL	8.00	6.00	-	-	-	-	1.00	1.00

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		WATER		RECYCLED WATER		TELECOMMS		ELEC	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
RUPANYUP DRIVE (18045-18053)	N	1.80	N	2.80	N	2.30	S	1.00	S	2.30
RUPANYUP DRIVE (18069-18070)	E	1.80	E	2.80	E	2.30	E	3.30	E	3.80
WALLALOO DRIVE	N/E	1.80	N/E	2.80	N/E	2.30	S/W	1.80	S/W	2.30
RALUANA ROAD (RESERVE)	S/W	1.80	S/W	2.80	S/W	2.30	N/E	0.25	N/E	0.90
FYANS WALK	E	1.80	E	2.80	E	2.30	E	3.30	E	3.80
LONGERENONG LANE	-	-	-	-	-	-	-	-	N	0.50

Approximate field density test location

Issue	Description	By	Ckd	PM	Date
A	ISSUED FOR CONSTRUCTION	WB	JR	SE	23.11.22
03	UPDATES TO ADDRESS COUNCIL COMMENTS	CM	JR	SE	13.09.22
02	UPDATES TO ADDRESS COUNCIL COMMENTS	CM	JR	SE	22.07.22
01	ISSUED FOR APPROVAL	CM	ZS	SE	07.04.22

100mm on Original

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-18b-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 18B

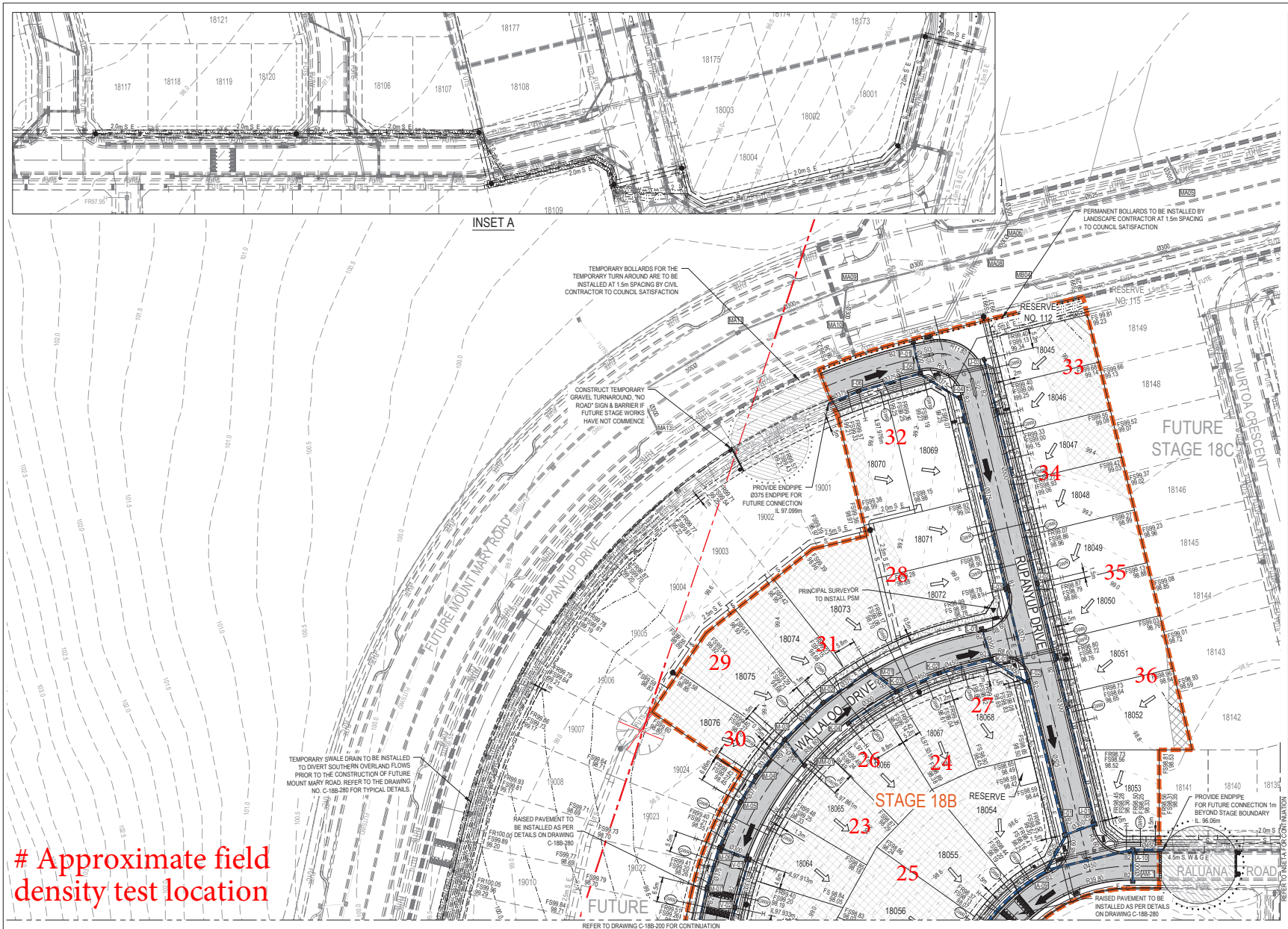
Title: ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 18, Queen & Collins Tower
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-18B-220	10029435	A

Last Saved: WBMIN1953 Date Plotted: 23 Nov 2022 - 05:01pm File Name: C:\Users\wbmn1953\ACCDocs\Arcadis\A-AU-10029435-Eynesbury Estate\Project Files\01_WORK IN PROGRESS\01_Civil_CV\Stage18_19\Stage18B\c-18b-220-10029435-Roadworks&DrainagePlan.dwg V1

FIGURE 1 (2 of 2)



Issue	Description	By	Ckd	PM	Date
A	ISSUED FOR CONSTRUCTION	WB	JR	SE	23.11.22
03	UPDATES TO ADDRESS COUNCIL COMMENTS	CM	JR	SE	13.09.22
02	UPDATES TO ADDRESS COUNCIL COMMENTS	CM	JR	SE	22.07.22
01	ISSUED FOR APPROVAL	CM	ZS	SE	07.04.22

100mm on Original

Scale: 1 : 500 (0 5 10 20 30 40 50m)

Planner: RobertsDay planning·design·place

Filename C-18b-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 18B

Title: ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 2

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 18, Queen & Collins Tower
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-18B-221	10029435	A

Last Saved: WBMIN1953 Date Plotted: 21 Nov 2022 - 01:03pm File Name: C:\Users\wbmn1953\ACCDocs\Arcadis\A-AU-10029435-Eynesbury Estate\Project Files\01_WORK IN PROGRESS\01_Civil_CV\Stage18_19\Stage18B\c-18b-220-10029435-Roadworks&DrainagePlan.dwg V1

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23261
		Report No	23261/R001
		Date Issued	01/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 18B	*Date tested*	18/04/23
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**	**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*	1.98	2.00	1.99	2.05	2.04	2.08
Field moisture content	*%*	21.1	22.3	17.2	18.6	18.9	18.0

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	2.00	2.05	2.11	2.11
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	21.0	20.0	19.5	20.5	21.0	19.5

Moisture Variation From Optimum Moisture Content		0.0%	2.0% wet	2.5% dry	2.0% dry	2.0% dry	1.5% 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})	*%*	**98.0**	**100.5**	**99.0**	**100.0**	**97.0**	**98.5**

Material description

No 1 - 6 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	23261
		Report No	23261/R002
		Date Issued	29/04/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 18B	*Date tested*	19/04/23
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		**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*	2.21	2.13	2.21	1.85	1.82	1.88
Field moisture content	*%*	17.5	20.7	20.9	23.3	22.9	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*	2.24	2.18	2.22	1.91	1.83	1.89
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	19.5	21.0	21.5	25.0	25.5	28.0

Moisture Variation From Optimum Moisture Content	2.0% dry	0.0%	0.5% dry	1.5% 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})	*%*	**98.5**	**97.5**	**99.5**	**96.5**	**99.0**	**99.0**

Material description

No 7 - 12 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23261
		Report No	23261/R003
		Date Issued	29/04/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 18B	*Date tested*	20/04/23
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		**13**	**14**	**15**	**16**	**17**	**18**
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*	2.07	2.02	1.98	1.99	1.97	2.02
Field moisture content	*%*	19.2	22.2	17.9	19.1	19.8	19.6

Test procedure AS 1289.5.7.1

Test No		13	14	15	16	17	18
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*	2.08	2.10	2.00	2.00	2.01	2.03
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	19.5	22.5	20.0	21.5	22.0	22.0

Moisture Variation From Optimum Moisture Content		0.5% dry	0.0%	2.0% dry	2.0% 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})	*%*	**99.5**	**96.0**	**99.0**	**99.5**	**98.0**	**100.0**

Material description

No 13 - 18 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23261
		Report No	23261/R004
		Date Issued	31/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	BS
Project	EYNESBURY - STAGE 18B	*Date tested*	21/04/23
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 10:21

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**19**	**20**	**21**	**22**	**23**	**24**
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*	2.08	2.11	2.18	2.16	2.16	2.19
Field moisture content	*%*	22.5	21.5	21.1	22.8	20.1	20.6

Test procedure AS 1289.5.7.1

Test No		19	20	21	22	23	24
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*	2.10	2.13	2.17	2.18	2.15	2.22
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	25.0	23.5	23.5	25.0	22.5	22.5

Moisture Variation From Optimum Moisture Content		2.0% dry	2.0% dry	2.0% dry	2.0% dry	2.0% dry	1.5% 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})	*%*	**99.0**	**99.0**	**100.0**	**99.0**	**100.5**	**98.5**

Material description

No 19 - 24 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	23261
		Report No	23261/R005
		Date Issued	31/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	WS
Project	EYNESBURY - STAGE 18B	*Date tested*	27/04/23
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		**25**	**26**	**27**	**-**	**-**	**-**
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*	2.11	2.07	2.12	-	-	-
Field moisture content	*%*	20.7	19.1	18.7	-	-	-

Test procedure AS 1289.5.7.1

Test No		25	26	27	-	-	-
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*	2.16	2.10	2.14	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	23.0	21.5	21.0	-	-	-

Moisture Variation From Optimum Moisture Content		2.0% dry	2.0% 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})	*%*	**98.0**	**98.5**	**99.5**	**-**	**-**	**-**

Material description

No 25 - 27 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23261
		Report No	23261/R006
		Date Issued	22/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	BS
Project	EYNESBURY - STAGE 18B	*Date tested*	09/05/23
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 11:47

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**28**	**29**	**30**	**31**	**32**	**33**
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*	1.87	1.85	1.98	1.91	1.98	2.00
Field moisture content	*%*	23.9	24.3	21.3	20.9	24.2	25.6

Test procedure AS 1289.5.7.1

Test No		28	29	30	31	32	33
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*	1.85	1.87	2.02	1.92	1.98	2.03
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	25.5	27.0	23.5	22.0	26.5	27.5

Moisture Variation From Optimum Moisture Content		1.5% dry	2.5% dry	2.0% dry	1.0% 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})	*%*	**101.0**	**99.0**	**98.5**	**99.5**	**100.0**	**98.5**

Material description

No 28 - 33 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	23261
		Report No	23261/R007
		Date Issued	31/05/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	BS
Project	EYNESBURY - STAGE 18B	*Date tested*	10/05/23
Location	EYNESBURY	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 11:52

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**34**	**35**	**36**	**-**	**-**	**-**
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*	1.99	1.95	2.01	-	-	-
Field moisture content	*%*	21.1	26.1	21.7	-	-	-

Test procedure AS 1289.5.7.1

Test No		34	35	36	-	-	-
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*	2.02	1.97	1.99	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	22.5	28.5	24.0	-	-	-

Moisture Variation From Optimum Moisture Content		1.5% 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**	**99.0**	**100.5**	**-**	**-**	**-**

Material description

No 34 - 36 Clay Fill

Approved Signatory : Justin Fry