



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

28th August 2024

Our Reference: 23925:NB1962

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
EYNESBURY – STAGE 22A, 22B, 23 & MMR3 BEW (EYNESBURY)**

Please find attached our Report No's 23925/R001 to 23925/R012 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 commenced in January 2024 and was completed in March 2024.

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

- STAGE BOUNDARY
- PROPOSED SURFACE CONTOURS
- EXISTING SURFACE CONTOURS
- PROPOSED KERB & CHANNEL
- PROPOSED RIDGE LINE
- MUNICIPAL BOUNDARY
- EXISTING TREES TO BE RETAINED
- EXISTING TREES TO BE REMOVED

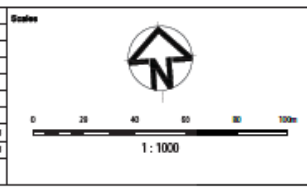
NOTE:
 1. FOR GENERAL NOTES, REFER TO DRAWING No. 1029435 AAP-AAS2200-CV-DRG-0100-0202.
 2. CUT/FILL HATCHES SHOWN FROM EXISTING SURFACE TO FINISHED SURFACE.

CUT FILL DEPTH RANGE

Lower Value	Upper Value	Colour
0.00	to -1.40	Red
-1.40	to -1.20	Red
-1.20	to -1.20	Red
-1.20	to -1.10	Red
-1.10	to -1.00	Red
-1.00	to -0.90	Red
-0.90	to -0.80	Red
-0.80	to -0.70	Red
-0.70	to -0.60	Red
-0.60	to -0.50	Red
-0.50	to -0.40	Red
-0.40	to -0.30	Red
-0.30	to -0.20	Red
-0.20	to -0.10	Red
-0.10	to 0.00	Red
0.00	to 0.10	Light Green
0.10	to 0.20	Light Green
0.20	to 0.30	Light Green
0.30	to 0.40	Light Green
0.40	to 0.50	Light Green
0.50	to 0.60	Light Green
0.60	to 0.70	Light Green
0.70	to 0.80	Light Green
0.80	to 0.90	Light Green
0.90	to 1.00	Light Green
1.00	to 1.10	Light Green
1.10	to 1.20	Light Green
1.20	to 1.30	Light Green
1.30	to 1.40	Light Green
1.40	to 0.00	Light Green

Approximate field density test location

Issue	Description	DR	CH	PM	Date
02	ISSUED FOR APPROVAL	RC	JR	MP	04.03.23
01	ISSUED FOR APPROVAL	RC	JR	MP	31.03.23



Planner: **RD** RobertsDay *planning.design.place*

Client: **RESIMAX GROUP**

Status: **FOR APPROVAL**
NOT TO BE USED FOR CONSTRUCTION

Original Issue Signature	Original Size	A1
Designed: R.ESIMAX	Design Checker	AHD
Project Manager: M.ESIMAX	Field	MGA
Checker: J.ESIMAX		

Project: **EYNEBURY TOWNSHIP STAGE 22 (INC. MMR3)**

Title: **EARLY BULK EARTHWORKS LAYOUT PLAN**

ARCADIS

ARCADIS Australia Pacific Pty Limited
 Level 10, Owen & Collins Tower
 378-380 Collins Street
 Melbourne VIC 3000 Australia
 ABN 78 104 485 289
 Tel No: +61 3 9522 4000
 www.arcadis.com.au

Project No.: 1029435 | Designer: JRC | Date: 04/03/23 | Scale: A1 | Type: Earthworks | Issue No.: 02

1029435 - AAP - AAS2200 - CV - DRG - 0100 - 02



COMPACTION ASSESSMENT

Job No 23925
 Report No 23925/R001
 Date Issued 17/01/23

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	15/01/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 08:09
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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	1.76	1.71	1.77	-	-	-
Field moisture content %	18.1	21.5	19.5	-	-	-

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/m ³	1.84	1.76	1.75	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	20.5	23.5	21.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% dry	2.0% dry	-	-	-
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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})	%	95.5	97.0	101.0	-	-	-
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Material description

No 1 - 3 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

Job No 23925
 Report No 23925/R002
 Date Issued 30/01/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	19/01/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:02
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	4	5	6	7	8	9	
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	2.13	2.13	2.10	2.10	2.05	2.06
Field moisture content	%	17.8	22.4	19.5	22.0	24.5	21.5

Test procedure AS 1289.5.7.1

Test No	4	5	6	7	8	9	
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	2.16	2.16	2.14	2.10	2.07	2.10
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	20.0	24.5	22.5	24.0	26.0	23.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% dry	2.5% dry	1.5% dry	1.5% dry	2.0% dry
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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	98.5	98.0	100.0	99.0	98.5
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Material description

No 4 - 9 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

Job No 23925
 Report No 23925/R003
 Date Issued 31/01/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	22/01/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 10:54
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	10	11	12	13	14	15	
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	2.26	2.25	2.28	2.12	2.03	2.29
Field moisture content	%	21.2	21.5	20.9	20.2	21.9	21.1

Test procedure AS 1289.5.7.1

Test No	10	11	12	13	14	15	
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	2.31	2.25	2.31	2.13	2.10	2.32
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	23.0	23.5	21.5	22.0	24.0	23.5

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	0.5% dry	2.0% dry	2.0% dry	2.0% dry
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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	100.0	99.0	99.5	97.0	99.0
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Material description

No 10 - 15 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

Job No 23925
 Report No 23925/R004
 Date Issued 20/03/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Tested by BS
 Date tested 31/01/24
 Checked by JHF

Client WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)
 Project EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW
 Location BACCHUS MARSH

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 09:37
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No		16	17	18	19	20	21
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/m ³	2.17	2.15	2.21	2.17	2.03	2.02
Field moisture content	%	17.4	17.7	16.4	17.8	17.1	17.5

Test procedure AS 1289.5.7.1

Test No		16	17	18	19	20	21
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/m ³	2.21	2.17	2.18	2.22	2.05	2.08
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	20.0	18.5	17.5	19.0	19.5

Moisture Variation From Optimum Moisture Content		1.5% dry	2.0% dry	2.0% dry	0.0%	2.0% dry	2.0% dry
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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	99.0	101.5	98.0	98.5	97.5
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Material description

No 16 - 21 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

Job No 23925
 Report No 23925/R005
 Date Issued 09/02/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	02/02/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:26
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	22	23	24	25	26	27
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	1.85	1.85	1.86	1.85	1.91
Field moisture content	%	27.2	28.1	28.4	26.3	25.9

Test procedure AS 1289.5.7.1

Test No	22	23	24	25	26	27
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	1.89	1.89	1.89	1.89	1.93
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	27.0	30.0	25.5	29.0	28.5

Moisture Variation From Optimum Moisture Content	0.0%	2.0% dry	2.5% wet	2.5% dry	2.5% dry	2.0% dry
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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	98.0	98.5	98.0	99.0	97.0
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Material description

No 22 - 27 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

Job No 23925
 Report No 23925/R006
 Date Issued 12/02/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	05/02/24
Location	EYNESBURY	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	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
Field wet density	t/m ³	1.87	1.91	1.91	1.90	1.88
Field moisture content	%	31.6	30.8	28.4	29.9	30.4

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
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m ³	1.90	1.94	1.95	1.90	1.94
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	34.5	33.5	31.0	27.5	33.0

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.0% dry	2.5% wet	2.5% dry	2.5% dry
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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	98.0	99.5	99.0	98.5
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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

Job No 23925
 Report No 23925/R007
 Date Issued 14/02/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	07/02/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:33
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	34	35	36	37	38	39	
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	1.85	1.91	1.84	1.83	1.87	1.90
Field moisture content	%	19.3	22.2	17.5	18.4	20.9	22.2

Test procedure AS 1289.5.7.1

Test No	34	35	36	37	38	39	
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	1.89	1.90	1.89	1.86	1.91	1.95
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	
Optimum Moisture Content	%	20.5	23.5	19.5	18.5	23.5	22.0

Moisture Variation From Optimum Moisture Content	1.5% dry	1.5% dry	2.0% dry	0.0%	2.5% dry	0.0%
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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	97.0	99.0	98.0	97.5
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Material description

No 34 - 39 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

Job No 23925
 Report No 23925/R008
 Date Issued 19/02/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	12/02/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:36
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	40	41	42	43	44	45	
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	1.86	1.85	1.88	1.88	1.92	1.87
Field moisture content	%	22.7	21.0	21.1	18.8	21.0	21.2

Test procedure AS 1289.5.7.1

Test No	40	41	42	43	44	45	
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	1.88	1.91	1.94	1.97	1.98	1.90
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	22.5	22.5	23.5	20.5	21.0	23.0

Moisture Variation From Optimum Moisture Content	0.5% wet	1.5% dry	2.5% dry	2.0% dry	0.0%	2.0% dry
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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	96.5	97.0	95.5	97.0	98.5
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Material description

No 40 - 45 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

Job No 23925
 Report No 23925/R009
 Date Issued 04/03/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	16/02/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 08:14
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	46	47	48	49	50	51	
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	1.86	1.87	1.88	1.92	1.96	1.90
Field moisture content	%	22.6	19.3	19.7	20.5	21.0	20.1

Test procedure AS 1289.5.7.1

Test No	46	47	48	49	50	51	
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	1.88	1.90	1.92	1.97	2.03	1.94
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	24.5	21.5	22.0	21.0	23.0	22.5

Moisture Variation From Optimum Moisture Content	2.0% dry	2.0% dry	2.0% dry	0.0%	1.5% dry	2.5% dry
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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	98.5	98.0	97.0	96.5	98.0
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Material description

No 46 - 51 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

Job No 23925
 Report No 23925/R010
 Date Issued 04/03/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	19/02/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 10:14
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	52	53	54	55	56	57
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	1.91	1.92	1.93	1.88	1.92
Field moisture content	%	23.0	21.8	20.5	25.0	23.6

Test procedure AS 1289.5.7.1

Test No	52	53	54	55	56	57
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	1.98	1.99	2.02	1.92	1.97
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	22.5	24.0	23.0	25.5	23.0

Moisture Variation From Optimum Moisture Content	0.5% wet	2.0% dry	2.5% dry	0.5% dry	1.5% dry	2.0% dry
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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})	%	96.5	96.5	95.5	98.0	97.5	97.5
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Material description

No 52 - 57 Clay Fill

AVRLOT HILF V1.10 MAR 13



NATA Accredited Laboratory No 9909
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 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 23925
 Report No 23925/R011
 Date Issued 05/03/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	28/02/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 11:14
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	58	59	60	61	62	63
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	1.87	1.88	1.95	1.89
Field moisture content	%	23.7	21.8	19.1	21.1	22.0

Test procedure AS 1289.5.7.1

Test No	58	59	60	61	62	63
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	1.93	1.92	2.01	1.96
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	23.5	24.5	21.5	21.0	22.0

Moisture Variation From Optimum Moisture Content	0.5% wet	2.5% dry	2.5% dry	0.0%	0.0%	0.0%
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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	97.5	97.0	96.5	96.0
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Material description

No 58 - 63 Clay Fill

AVRLOT HILF V1.10 MAR 13



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 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 23925
 Report No 23925/R012
 Date Issued 06/03/24

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	EYNESBURY - STAGE 22A, 22B & 23 MMR3 BEW	Date tested	05/03/24
Location	EYNESBURY	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:21
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	64	65	66	67	68	69
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	1.92	1.94	1.92	1.91	1.88
Field moisture content	%	19.0	22.9	24.8	24.8	20.6

Test procedure AS 1289.5.7.1

Test No	64	65	66	67	68	69
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	1.97	1.98	1.95	1.96	1.93
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	19.5	24.5	27.0	26.0	22.5

Moisture Variation From Optimum Moisture Content	0.0%	1.5% dry	2.0% dry	1.0% dry	1.5% dry	2.0% dry
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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})	%	97.5	98.5	98.0	97.0	97.5	96.5
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Material description

No 64 - 69 Clay Fill

AVRLOT HILF V1.10 MAR 13



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 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry