

CIVIL GEOTECHNICAL SERVICES ABN 26 474 013 724

PO Box 678 Croydon Vic 3136 Telephone: 9723 0744 Facsimile: 9723 0799

11th October 2024

Our Reference: 24308:NB2073

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING EYNESBURY – STAGE 23B (EYNESBURY)

Please find attached our Report No's 24308/R001 to 24308/R005 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 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).

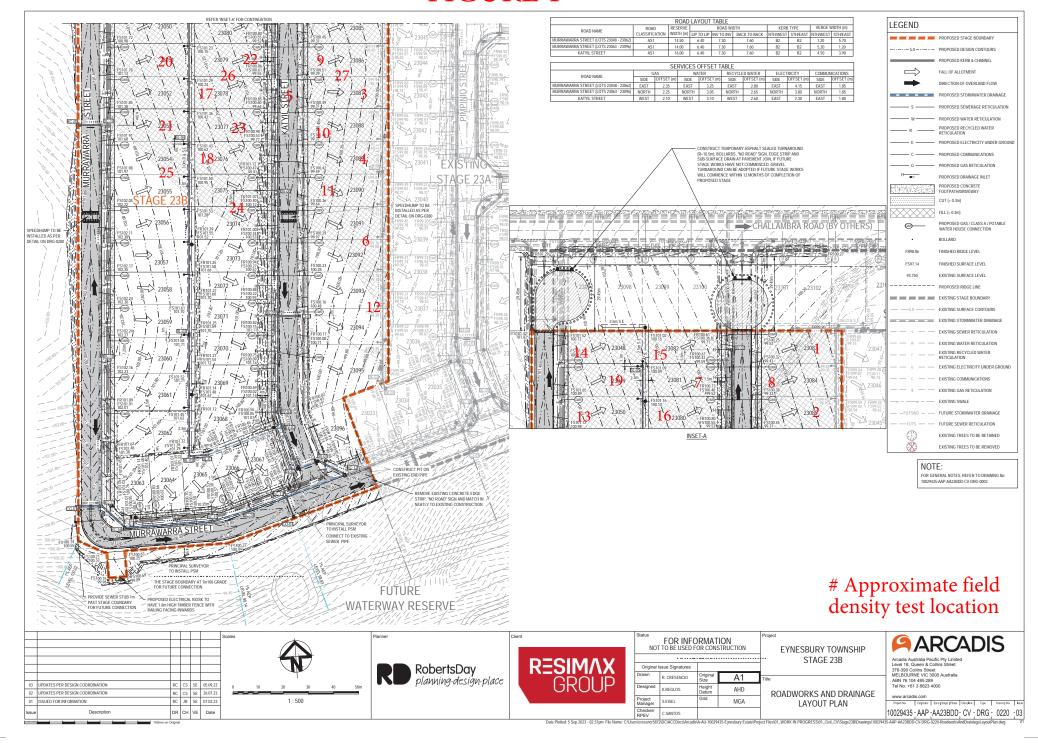
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1





 CIVIL GEOTECHNICAL SERVICES
 Job No
 24308

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 24308/R001

 Date Issued
 16/07/24

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byBSProjectEYNESBURY - STAGE 23BDate tested10/07/24LocationEYNESBURYChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 13:19

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		1	2	3	4	5	6
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.82	1.91	1.83	1.89	1.89	1.86
Field moisture content	%	24.3	28.3	23.9	24.3	25.3	26.5

Test procedure AS 1289.5.7.1

Test No		1	2	3	4	5	6
Compactive effort				Stan	ndard		
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	1.98	1.90	1.96	1.90	1.91
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	25.5	30.0	24.5	26.0	27.5	27.0

Moisture Variation From	1.0%	1.5%	0.5%	1.5%	2.0%	0.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	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}) %	6	97.5	96.5	96.5	96.5	99.0	97.0

Material description

No 1 - 6 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 24308

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 24308/R002

 Date Issued
 22/07/24

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byBSProjectEYNESBURY - STAGE 23BDate tested17/07/24LocationEYNESBURYChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 12:21

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		7	8	9	10	11	12
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.90	1.81	1.84	1.87	1.85	1.82
Field moisture content	%	25.5	26.3	25.2	26.5	27.2	23.7

Test procedure AS 1289.5.7.1

Test No		7	8	9	10	11	12
Compactive effort				Stan	dard		
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	1.93	1.86	1.88	1.92	1.92	1.86
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	26.5	27.5	25.5	27.0	27.5	25.5

Moisture Variation From	1.0%	1.5%	0.0%	0.5%	0.5%	2.0%
Optimum Moisture Content	dry	dry		dry	dry	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	97.0	97.5	97.5	96.0	97.5

Material description

No 7 - 12 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 24308

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 24308/R003

 Date Issued
 29/07/24

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byBSProjectEYNESBURY - STAGE 23BDate tested23/07/24LocationEYNESBURYChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:23

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		13	14	15	16	17	18
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.91	1.82	1.80	1.85	1.83	1.89
Field moisture content	%	23.6	24.6	27.4	23.1	26.9	23.6

Test procedure AS 1289.5.7.1

Test No		13	14	15	16	17	18
Compactive effort				Stan	ndard		
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	1.92	1.87	1.84	1.94	1.92	1.89
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	24.0	26.0	29.0	24.5	28.0	23.0

Moisture Variation From	0.5%	1.5%	1.5%	1.5%	1.0%	0.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	wet

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	97.5	98.0	95.5	95.5	99.5

Material description

No 13 - 18 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 24308

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 24308/R004

 Date Issued
 31/07/24

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byBSProjectEYNESBURY - STAGE 23BDate tested26/07/24LocationEYNESBURYChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 09:25

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		19	20	21	22	23	24
Location							
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1					
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t/m³	1.88	1.81	1.88	1.85	1.82	1.90
Field moisture content	%	25.9	27.8	26.0	24.0	26.6	26.3

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	1.91	1.86	1.92	1.92	1.86	1.96	
Adjusted Peak Converted Wet Density	t/m³	1	-	-	-	-	-	
Optimum Moisture Content	%	27.0	30.0	28.0	25.0	27.5	28.0	

Moisture Variation From	1.0%	2.0%	2.0%	1.0%	1.0%	1.5%
Optimum Moisture Content	dry	dry	dry	dry	dry	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	97.0	98.0	96.5	98.0	97.5

Material description

No 19 - 24 Clay Fill

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

AVRLOT HILF V1.10 MAR 13



 CIVIL GEOTECHNICAL SERVICES
 Job No
 24308

 6 - 8 Rose Avenue, Croydon 3136
 Report No
 24308/R005

 Date Issued
 31/07/24

ClientWINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)Tested byBSProjectEYNESBURY - STAGE 23BDate tested30/07/24LocationEYNESBURYChecked byJHF

Feature EARTHWORKS Layer thickness 200 mm Time: 10:28

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		25	26	27	=	-	-
Location							
		REFER	REFER	REFER			
		ТО	ТО	TO			
		FIGURE 1	FIGURE 1	FIGURE 1			
Approximate depth below FSL							
Measurement depth	mm	175	175	175	-	-	-
Field wet density	t/m³	1.87	1.83	1.89	-	-	-
Field moisture content	%	23.6	27.2	25.7	-	-	-

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	1.91	1.84	1.90	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	24.0	29.0	27.0	-	-	-

Moisture Variation From	0.5%	1.5%	1.5%	-	-	-
Optimum Moisture Content	dry	dry	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	99.5	100.0	-	-	-

Material description

No 25 - 27 Clay Fill

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

AVRLOT HILF V1.10 MAR 13