

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

28<sup>th</sup> February 2024

Our Reference: 23260:NB1798

Winslow Constructors Pty Ltd 50 Barry Road CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

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

Please find attached our Report No's 23260/R001 to 23260/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 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).

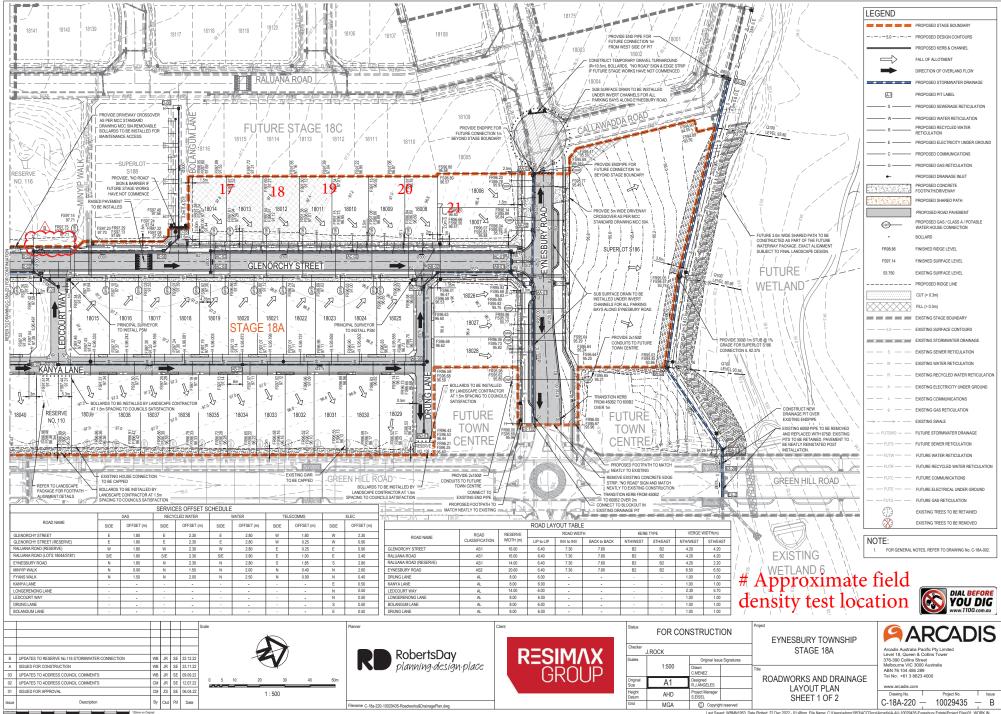
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

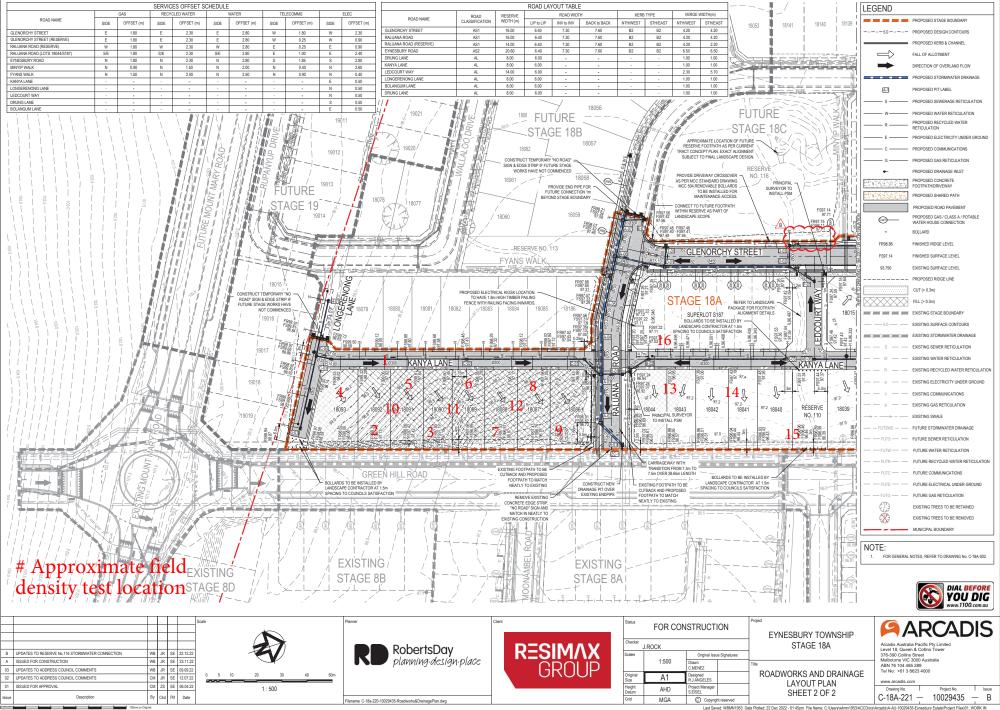
Nick Brock

## FIGURE 1 (1 of 2)



MIN1953 Date Moteo: 22 Dec 2022 - 01:46pm Frie Name: C:/Dsersi/wom/1953/AUCLOcs/ArCadisiA-AU-10029435-cynesbury Estate/Project Fries/01\_WOHK IN PROGRESSI01 Civil CV/Stabe18 19/Stabe18A/c-18a-220-10029435-Roadworks&DrainabePlan.dwo

# FIGURE 1 (2 of 2)



VBMN1953 Date Plotted: 22 Dec 2022 - 01:45pm File Name: C:\Users\wbmn1953\ACCDocs\Arcadis\A-AU-10029435-Eynesbury Estate\Project Files\01\_WORK IN PROGRESS\01 Civil CV\State18 19\State184\c-18a-220-10029435-Roadworks&DrainagePlan.dwg



CONSTRUCT Y - STAGE 1 Y RKS 2.1.1 & 5.8.7	8A	``````````````````````````````````````	er thickness			Tested by Date tested Checked by Time.	BS 30/03/23 JHF : 12:42
	1	1					: 12:42
2.1.1 & 5.8.1	1		2	3	-		
			2	3	-	-	
		REFER					-
		TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1			
SL							
02	mm	175	175	175	-	-	-
	t∕m³	1.78	1.79	1.92	-	-	-
	%	21.1	23.2	22.8	-	-	-
<b>Г 7 4</b>							
5.7.1		1	2	3	-	-	-
			_		rd		
ieve	mm	19.0	19.0	1		-	-
	wet		0	0	-	-	-
ty	t∕m³	1.81	1.83	1.92	-	-	-
Vet Density	t∕m³	-	-	-	-	-	-
	%	23.5	25.5	25.0	-	-	-
From		2.5%	2.5%	2.0%	-	-	-
ontent		dry	dry	dry			
ratio results r	elate c	only to the so	il to the dept	h of test and no	t to the	full depth of th	e layer
	%	98.5	98.0	100.0	-	-	-
	5.7.1 Sieve I Vet Density From Content	mm t/m <sup>3</sup> % 5.7.1 sieve mm 1 wet ity t/m <sup>3</sup> Vet Density t/m <sup>3</sup> % From Content ratio results relate of	mm 175   t/m³ 1.78   % 21.1   5.7.1 1   5.7.1 1   sieve mm 19.0   1 wet 0   ity t/m³ 1.81   Vet Density t/m³ -   % 23.5 5	mm 175 175 $t/m^3$ 1.78 1.79   % 21.1 23.2   5.7.1 1 2   5.7.1 1 2   sieve mm 19.0 19.0   1 wet 0 0   1 wet 0 0   1 wet 0 0   1 23.5 25.5   From 2.5% 2.5%   Content dry dry   ratio results relate only to the soil to the dept 10	mm 175 175 175 $t/m^3$ 1.78 1.79 1.92   % 21.1 23.2 22.8   5.7.1 1 2 3   5.7.1 1 2 3   5.7.1 1 2 3   Standa   sieve mm 19.0 19.0   1 wet 0 0 0   1 wet 0 0 0 0   1 wet 0 0 0 0 0   Vet Density t/m³ 1.81 1.83 1.92 0   Vet Density t/m³ - - - - - -   % 23.5 25.5 25.0 2.0% - -   From 2.5% 2.5% 2.0% - -   % 23.5 25.5 25.0 - -	mm175175- $t/m^3$ 1.781.791.92-%21.123.222.8-5.7.1123-5.7.1123- $tieve$ mm19.019.019.0 $tieve$ mm19.019.019.0 $tieve$ mm19.019.0- $tieve$ $tim$ 1.811.831.92 $tieve$ $tim$ - $tieve$ $tim$ - <td>mm 175 175 175 - -   t/m³ 1.78 1.79 1.92 - -   % 21.1 23.2 22.8 - -   5.7.1 1 2 3 - -   5.7.1 1 2 3 - -   5.7.1 1 2 3 - -   5.7.1 1 2 3 - -   5.7.1 Standard   t/we 0 19.0 19.0 - -   wet 0 0 0 - -   vet Density t/m³ 1.81 1.83 1.92 -   % 23.5 25.5 25.0 - -   % 23.5 25.5 25.0 - -   From 2.5% 2.5% 2.0% - -   Content dry dry dry dry &lt;</td>	mm 175 175 175 - -   t/m³ 1.78 1.79 1.92 - -   % 21.1 23.2 22.8 - -   5.7.1 1 2 3 - -   5.7.1 1 2 3 - -   5.7.1 1 2 3 - -   5.7.1 1 2 3 - -   5.7.1 Standard   t/we 0 19.0 19.0 - -   wet 0 0 0 - -   vet Density t/m³ 1.81 1.83 1.92 -   % 23.5 25.5 25.0 - -   % 23.5 25.5 25.0 - -   From 2.5% 2.5% 2.0% - -   Content dry dry dry dry <



AVRLOT HILF V1.10 MAR 13

Approved Signatory : Justin Fry



8 Rose Avenue, Croydon 3136ClientWINSLOW CONSTRUCProjectEYNESBURY - STAGELocationEYNESBURY		PTY LTD (C/	AMPBELLFIE	Te De	ate Issued ested by ate tested necked by	05/04/23 WS 03/04/23 JHF	
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	09:30
Test procedure AS 1289.2.1.1 & 5.8 Test No	3.1	4	5	6	7	8	9
Location			•	•			Ŭ
		REFER	REFER	REFER	REFER	REFER	REFER
		TO	TO	TO	TO	TO	TO
		FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1	FIGURE 1
Approximate depth below FSL							
Measurement depth	mm	175	175	175	175	175	175
Field wet density	t∕m³	1.94	1.92	1.83	1.89	1.96	1.89
Field moisture content	%	22.4	24.3	20.9	18.4	19.9	18.2
Test procedure AC 1000 5 7 1							
Test procedure AS 1289.5.7.1		4	<b>_</b>	0	-	0	<u> </u>
Test No		4	5	6	7	8	9
Compactive effort		40.0	40.0	Stan		40.0	40.0
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 <sup>3</sup>	2.00	1.95	1.88	1.93	1.99	1.91
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content	%	24.5	24.5	22.5	21.0	22.5	20.5
Moisture Variation From		2.0%	0.0%	1.5%	2.5%	2.5%	2.5%
Optimum Moisture Content		dry	0.070	dry	dry	dry	dry
density and moisture ratio results	relate d		il to the dent				
-		-	-				-
Density Ratio (R <sub>HD</sub> )	%	97.0	98.0	97.0	98.0	98.5	98.5



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VIL GEOTECHNICAL SERVICES 8 Rose Avenue, Croydon 3136					Re Da	bb No eport No ate Issued	23260 23260/R00 19/04/23
Client WINSLOW CONSTRUC <sup>-</sup> Project EYNESBURY - STAGE 1 Location EYNESBURY	ELD)	Da	ested by ate tested hecked by	WS 06/04/23 JHF			
Feature EARTHWORKS		Lay	er thickness	200	mm	Time:	07:00
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	175
Field wet density	t∕m³	2.01	2.04	1.96	2.05	2.01	2.05
Field moisture content	%	24.4	23.0	25.1	25.0	25.4	21.6
Test procedure AS 1289.5.7.1							
Test No		10	11	12	13	14	15
Compactive effort		-		Stan			-
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	2.07	2.06	2.07	2.07	2.06
Adjusted Peak Converted Wet Density	t∕m³	-	-	-	-	-	-
Optimum Moisture Content	%	27.0	25.5	27.5	27.0	28.0	24.0
Moisture Variation From		2.5%	2.5%	2.5%	2.0%	2.5%	2.5%
Optimum Moisture Content		dry	dry	dry	dry	dry	dry
density and moisture ratio results r	relate o	-	-	h of test and		-	e layer
Density Ratio(R <sub>HD</sub> )	%	99.5	98.5	95.0	98.5	97.0	99.5
Material description							
No 10 - 15 Clay Fill							



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THWORKS		1.00					
Feature EARTHWORKS		Lay	er thickness	200 mm		<i>Time:</i> 11:13	
1289.2.1.1 & 5.8.	1			10			
		16	17	18	19	20	21
		REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1	REFER TO FIGURE 1
elow FSL							
	mm	175	175	175	175	175	175
	t∕m³			2.09			2.02
nt	%	25.8	22.0	23.1	23.6	29.8	28.4
1000 5 7 1							
1209.0.1.1		16	17	18	10	20	21
		10	17			20	21
ed on sieve	mm	19.0	19.0			19.0	19.0
							0
							2.04
		-	-	-	-	-	-
	%	28.5	24.5	25.0	24.5	32.5	28.0
riation From		2.5%	2.5%	1.5%	1.0%	2.5%	0.5%
sture Content							wet
	elate c	ž – – –					
n )	%	100.0	99.5	98.5	96.5	97.5	99.0
	pelow FSL nt 1289.5.7.1 ed on sieve material t Density rerted Wet Density content content riation From sture Content	mm t/m³ nt % 1289.5.7.1 ed on sieve mm material wet t Density t/m³ rerted Wet Density t/m³ content % friation From sture Content oisture ratio results relate content	16REFER TO FIGURE 1Delow FSLmm175 t/m³2.06nt%25.831289.5.7.116ed on sieve mm19.0material wetwet0t Density t/m³2.06riation From sture Content2.5% dryoisture ratio results relate only to the so	16 17   REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1   below FSL -   mm 175 175   t/m³ 2.06 2.05   nt % 25.8 22.0   Classifier 16 17   ed on sieve mm 19.0 19.0   material wet 0 0   t Density t/m³ 2.06 2.06   rerted Wet Density t/m³ - -   content % 28.5 24.5   riation From sture Content 2.5% dry 2.5% dry 2.5% dry	16 17 18   REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1 REFER TO FIGURE 1   below FSL $mm$ 175 175 $mm$ 175 175 175 $t/m^3$ 2.06 2.05 2.09   nt % 25.8 22.0 23.1   S 1289.5.7.1 16 17 18   Stan   ed on sieve mm 19.0 19.0   material wet 0 0 0   content % 28.5 24.5 25.0   riation From 2.5% 2.5% 1.5%   dry dry dry dry   oisture ratio results relate only to the soil to the depth of test and	16 17 18 19   REFER TO FIGURE 1 TO FIGURE 1 FIGURE 1 FIGURE 1   below FSL    175 175 175 175   mm 175 175 175 175 175 197   nt % 25.8 22.0 23.1 23.6   8 1289.5.7.1 16 17 18 19   Standard   ed on sieve mm 19.0 19.0 19.0   The standard   ed on sieve mm 19.0 2.06 2.12 2.05   ed on sieve mm 19.0 2.06 2.12 2.05   ed on sieve mm 19.0 2.5 24.5 25.0	16 17 18 19 20   REFER TO FIGURE 1 TO FIGURE 1 FIGURE 1 FIGURE 1 FIGURE 1   new 175 175 175 175 175 175   10 17 175 175 175 2.00 1.97 2.00   nt % 25.8 22.0 23.1 23.6 29.8   \$1289.5.7.1 16 17 18 19 20   standard 9.0 0 0 0 0 0   ed on sieve mm 19.0 19.0 19.0 19.0 19.0   material wet 0 0 0 0 2.05



NATA Accredited Laboratory No 9909 Accredited for compliance with ISO/IEC 17025 - Testing AVRLOT HILF V1.10 MAR 13

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