



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

23<sup>rd</sup> April 2022

Our Reference: 22233:NB1224

Winslow Constructors Pty Ltd  
50 Barry Road  
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

**RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING  
MARIGOLD – STAGE 10 (TARNEIT)**

Please find attached our Report No's 22233/R001 to 22233/R009 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 March 2022 and was completed in April 2022.

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

A handwritten signature in blue ink, appearing to read 'Nick Brock', is written over a faint circular stamp.

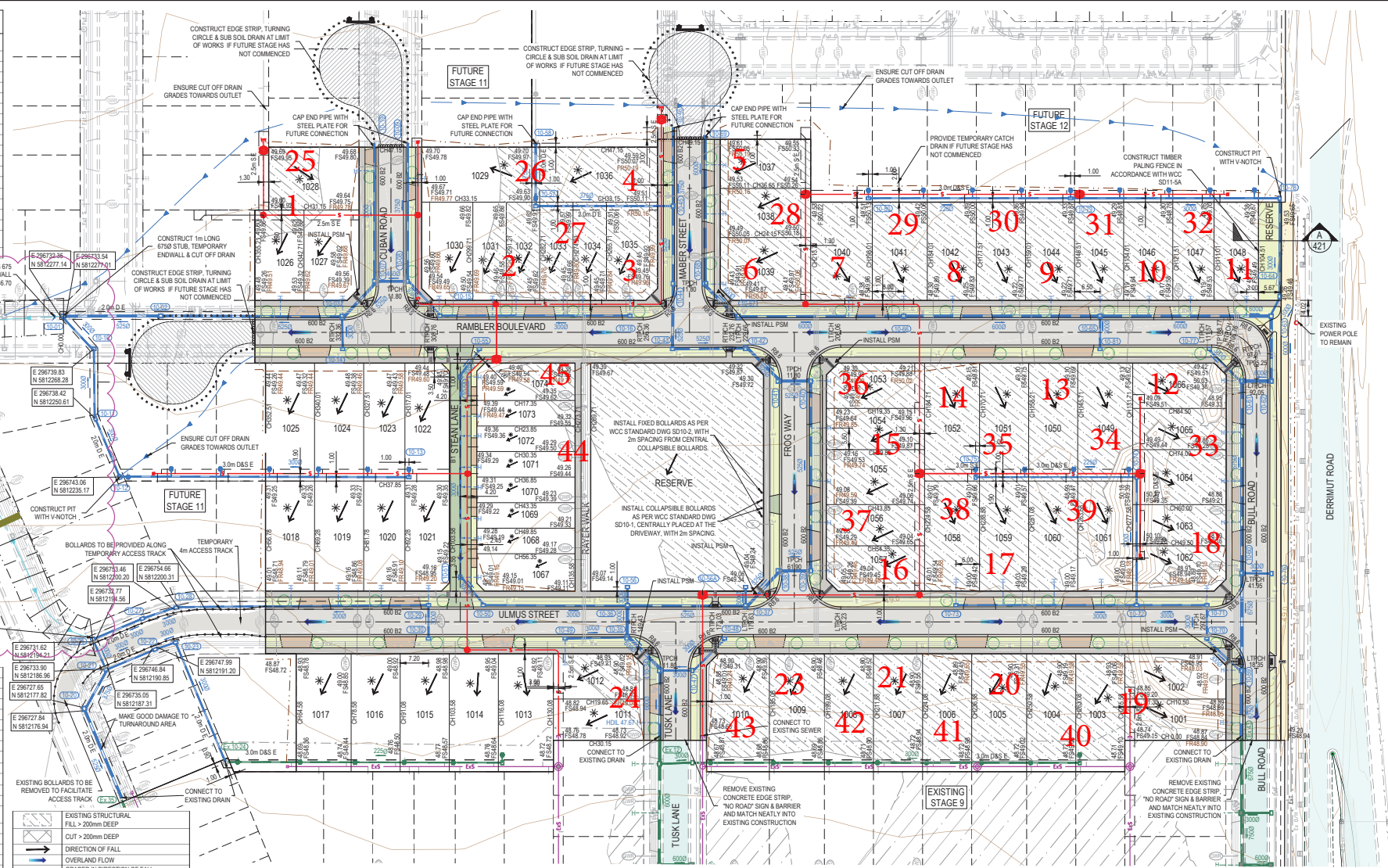
Nick Brock

# FIGURE 1

- LEGEND - LAYOUT PLAN**  
 ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
- STORMWATER DRAIN, PIT & PROPERTY INLET
  - MAIN DRAIN
  - CUT OFF DRAIN
  - SEWER & MAINTENANCE STRUCTURES
  - HOUSE DRAIN
  - ELECTRICITY (U.GROUND)
  - GAS
  - TELSTRA
  - OPTIC FIBRE
  - WATER
  - RECYCLE WATER
  - AG. DRAIN
  - SERVICE CONDUITS
  - TACTILE PAVINGS
  - EXISTING STORMWATER DRAIN
  - EXISTING MAIN DRAIN
  - EXISTING SWALE DRAIN
  - EXISTING SEWER & MAINTENANCE STRUCTURES
  - EXISTING HOUSE DRAIN

- EXISTING ELECTRICITY (UNDER GROUND)
- EXISTING ELECTRICITY OVERHEAD
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING OPTIC FIBRE
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING AG. DRAIN
- EXISTING SERVICE CONDUITS
- EXISTING TACTILE PAVINGS
- FUTURE STORMWATER DRAIN
- FUTURE MAIN DRAIN
- FUTURE SWALE DRAIN
- FUTURE SEWER & MAINTENANCE STRUCTURES
- FUTURE HOUSE DRAIN
- FUTURE ELECTRICITY (UNDER GROUND)
- FUTURE ELECTRICITY OVERHEAD
- FUTURE GAS
- FUTURE TELSTRA
- FUTURE OPTIC FIBRE
- FUTURE WATER
- FUTURE RECYCLED WATER
- FUTURE AG. DRAIN
- FUTURE SERVICE CONDUITS
- FUTURE TACTILE PAVINGS
- FUTURE ZERO LOT LINES
- FUTURE FINISHED SURFACE LEVEL
- FUTURE FINISHED BUILDING LEVEL
- FUTURE FINISHED RIDGE LINE LEVEL
- CHANGE
- CH270.00
- STRUCTURAL FILL > 200mm DEEP

- EXISTING STRUCTURAL FILL > 200mm DEEP
- CUT > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW GRADES IN DIRECTION OF FALL TO LEVEL INDICATED
- EDGE STRIP, SUSSEUL DRAIN, "NO ROAD" SIGN & BARRIER
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY & FOOTPATH
- PROPOSED INDUSTRIAL DRIVEWAY
- PROPOSED SHARED FOOTPATH
- PROPOSED ROAD PAVING
- EXISTING ROAD PAVING
- 3m DIAMETER TREE RING



ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH (m)						KERB TYPE	VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NHWEST	STEAST	NHWEST		STEAST	
RAMBLER BOULEVARD	16.00	6.40	7.30	7.60	6.00 B2	6.00 B2	4.50	4.20		
BULL ROAD	15.85	5.60	6.50	6.80	6.00 B2	6.00 B2	4.50	4.85		
ULMUS STREET	16.00	6.40	7.30	7.60	6.00 B2	6.00 B2	4.20	4.50		
CUBAN ROAD	16.00	6.40	7.30	7.60	6.00 B2	6.00 B2	4.50	4.20		
RAMBLER STREET	16.00	6.40	7.30	7.60	6.00 B2	6.00 B2	4.50	4.20		
FROG WAY	16.00	6.40	7.30	7.60	6.00 B2	6.00 B2	4.20	4.50		
TUSK LANE	16.00	6.40	7.30	7.60	6.00 B2	6.00 B2	4.50	4.20		
STEAN LANE	7.00	5.50	-	-	-	-	0.05	1.45		
RAYER WALK	4.00	-	-	-	-	-	-	-		

ROAD NAME	SERVICES OFFSET TABLE				
	GAS OFFSET (m)	RECYCLED WATER OFFSET (m)	WATER OFFSET (m)	ELECTRICITY OFFSET (m)	OPTIC FIBRE OFFSET (m)
RAMBLER BOULEVARD	2.10 N	2.60 N	3.10 N	2.60 S	2.60 S
BULL ROAD	2.10 W	2.60 W	3.10 W	1.575 E	1.225 E
ULMUS STREET	2.10 S	2.60 S	3.10 S	2.60 N	1.85 N
CUBAN ROAD	2.10 W	2.60 W	3.10 W	2.60 E	1.85 E
RAMBLER STREET	2.10 W	2.60 W	3.10 W	2.60 E	1.85 E
FROG WAY	2.10 W	2.60 W	3.10 W	2.60 E	1.85 E
TUSK LANE	2.10 W	2.60 W	3.10 W	2.45 E	1.85 E
STEAN LANE	1.80 W	2.20 W	2.65 W	3.75 W	3.20 W

**WARNING**  
**BEWARE OF UNDERGROUND SERVICES**  
 The locations of underground services are approximate only and their exact position should be proven on site.  
 No guarantee is given that all existing services are shown.  
 Locate all underground services BEFORE commencement of works  
**DIAL 1100 BEFORE YOU DIG**  
 www.1100.com.au

NOTE: LOTS 1068-1073 TO HAVE HOUSE DRAIN LOCATED AT 4m OFFSET FROM SIDE BOUNDARY. REFER SHEET 351 FOR DETAIL.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	20.01.22	ISSUED FOR CONSTRUCTION	D.MARRAM	H.HEHSANI	C.SEXTON	B.SANDERSON
1	20.02.22	TEMPORARY CHANNEL UPDATED	D.MARRAM	H.HEHSANI	C.SEXTON	M.BOUWMEESTER

**# Approximate field density test location**

PLAN OF SUB. NO. PS447495U  
 PERMIT REF. NO. WYP1036517.01

Scale 1:500  
 SCALE AS SHOWN AT 1

**ISSUED FOR CONSTRUCTION**

**SMC**  
 Member of the Surlana Jurong Group  
 Collins Square, Tower 4, Level 20, 727 Collins St  
 Melbourne, VIC 3008  
 Ph 03 9514 1500

**GROWLAND**

Marigold - Stage 10  
 Wyndham City Council  
 Road and Drainage  
 Layout Plan

REVISION NO. 359 F9  
 PROJECT DRAWING NO. 2360E-010-111  
 SHEET NO. 02 of 26  
 REVISION 1



# COMPACTION ASSESSMENT

Job No 22233  
 Report No 22233/R001  
 Date Issued 22/04/2022

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	MARIGOLD - STAGE 10	Date tested	23/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 15:24
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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 <sup>3</sup>	1.83	1.83	1.85	-	-	-
Field moisture content %	25.1	25.1	29.7	-	-	-

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 <sup>3</sup>	1.89	1.87	1.88	-	-	-
Adjusted Peak Converted Wet Density t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content %	28.0	27.5	32.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	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 <sub>HD</sub> ) %	96.5	97.5	99.0	-	-	-
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Material description

No 1 - 3 Clay Fill
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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 22233  
 Report No 22233/R002  
 Date Issued 22/04/2022

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	MARIGOLD - STAGE 10	Date tested	24/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	15:26
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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/m <sup>3</sup>	1.86	1.86	1.87	-	-
Field moisture content	%	24.2	24.4	26.9	-	-

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/m <sup>3</sup>	1.89	1.90	1.90	-	-
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	26.5	27.0	29.5	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	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 <sub>HD</sub> )	%	98.5	98.0	98.5	-	-
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Material description

No 4 - 6 Clay Fill
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AVRLOT HILF V1.10 MAR 13



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 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



# COMPACTION ASSESSMENT

Job No 22233  
 Report No 22233/R003  
 Date Issued 12/04/2022

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	MARIGOLD - STAGE 10	Date tested	25/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 08:00
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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	
Field wet density	t/m <sup>3</sup>	2.00	1.96	1.94	1.94	1.93	1.98
Field moisture content	%	19.6	20.9	20.1	20.2	21.4	21.9

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	
Percent of oversize material	wet	0	0	0	0	0	
Peak Converted Wet Density	t/m <sup>3</sup>	2.04	2.01	1.97	1.98	1.96	2.01
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content	%	19.5	22.5	21.0	21.5	23.5	23.0

Moisture Variation From Optimum Moisture Content	0.0%	1.5% dry	1.0% dry	1.5% dry	2.0% dry	1.0% 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 <sub>HD</sub> )	%	98.0	98.0	98.5	98.0	98.5	98.5
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Material description

No 7 - 12 Clay Fill
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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 22233  
 Report No 22233/R004  
 Date Issued 12/04/2022

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	MARIGOLD - STAGE 10	Date tested	28/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:00
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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
Field wet density	t/m <sup>3</sup>	1.84	1.87	1.84	1.79	1.86
Field moisture content	%	22.2	15.6	17.7	18.8	18.8

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
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m <sup>3</sup>	1.87	1.92	1.91	1.83	1.91
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	23.5	17.5	20.0	21.5	20.5

Moisture Variation From Optimum Moisture Content	1.0% dry	2.0% dry	2.0% dry	2.5% dry	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 <sub>HD</sub> )	%	98.5	97.5	96.5	98.5	97.0	98.0
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Material description

No 13 - 18 Clay Fill
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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 22233  
 Report No 22233/R005  
 Date Issued 19/04/2022

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	MARIGOLD - STAGE 10	Date tested	29/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 07:30
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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
Field wet density	t/m <sup>3</sup>	1.95	1.92	1.92	1.97	1.92
Field moisture content	%	16.7	17.6	17.9	17.1	17.7

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
Percent of oversize material	wet	0	0	0	0	0
Peak Converted Wet Density	t/m <sup>3</sup>	1.98	1.96	1.95	1.99	1.96
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	18.0	20.0	19.5	19.5	20.0

Moisture Variation From Optimum Moisture Content	1.5% dry	2.5% dry	1.5% dry	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 <sub>HD</sub> )	%	98.5	98.0	98.5	99.0	98.0	97.5
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Material description

No 19 - 24 Clay Fill
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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 22233  
Report No 22233/R006  
Date Issued 08/04/2022

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	MARIGOLD - STAGE 10	Date tested	29/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	13:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	25	26	27	28	29	30	
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 <sup>3</sup>	1.85	1.82	1.84	2.05	2.05	1.93
Field moisture content	%	16.7	13.7	17.4	17.9	16.1	16.9

Test procedure AS 1289.5.7.1

Test No	25	26	27	28	29	30	
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 <sup>3</sup>	1.88	1.88	1.88	2.06	2.08	1.99
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-	-
Optimum Moisture Content	%	19.0	16.0	19.5	20.5	18.5	19.0

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.0% dry	2.0% 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 <sub>HD</sub> )	%	98.0	97.0	98.0	99.0	98.5	97.0
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Material description

No 25 - 30 Clay Fill
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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 22233  
 Report No 22233/R007  
 Date Issued 12/04/2022

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JB
Project	MARIGOLD - STAGE 10	Date tested	30/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time:	13:00
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	31	32	33	34	35	36
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 <sup>3</sup>	1.90	1.89	1.95	1.93	1.92
Field moisture content	%	16.9	17.1	22.3	22.5	21.2

Test procedure AS 1289.5.7.1

Test No	31	32	33	34	35	36
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 <sup>3</sup>	1.93	1.93	1.99	1.94	1.95
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	19.5	19.5	25.0	25.0	23.0

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.5% dry	2.5% dry	2.0% 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 <sub>HD</sub> )	%	98.5	97.5	98.5	99.5	99.0	99.5
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Material description

No 31 - 36 Clay Fill
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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 22233  
 Report No 22233/R008  
 Date Issued 07/04/2022

## CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	JD
Project	MARIGOLD - STAGE 10	Date tested	31/03/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 17:38
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	37	38	39	-	-	-
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 <sup>3</sup>	1.92	1.90	2.00	-	-
Field moisture content	%	14.1	16.0	14.3	-	-

Test procedure AS 1289.5.7.1

Test No	37	38	39	-	-	-
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 <sup>3</sup>	1.97	1.93	2.03	-	-
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	16.5	18.0	16.5	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% 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 <sub>HD</sub> )	%	97.5	98.5	98.0	-	-
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Material description

No 37 - 39 Clay Fill
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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 22233  
Report No 22233/R009  
Date Issued 07/04/2022

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	MARIGOLD - STAGE 10	Date tested	01/04/22
Location	TARNEIT	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:05
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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 <sup>3</sup>	1.93	1.91	1.92	1.91	1.93
Field moisture content	%	19.9	22.7	23.8	26.9	29.6

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 <sup>3</sup>	1.96	1.95	1.96	1.98	1.93
Adjusted Peak Converted Wet Density	t/m <sup>3</sup>	-	-	-	-	-
Optimum Moisture Content	%	22.5	25.5	26.0	29.0	32.0

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	2.0% dry	2.0% dry	2.0% 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 <sub>HD</sub> )	%	98.5	97.5	98.0	96.5	99.5	98.5
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Material description

No 40 - 45 Clay Fill
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AVRLOT HILF V1.10 MAR 13



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Approved Signatory : Justin Fry