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

20th August 2024

Our Reference: 23819:NB1949

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
236 PAYNES ROAD – STAGE 2 (ROCKBANK)

Please find attached our Report No's 23819/R001 to 23819/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 October 2023 and was completed in November 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).

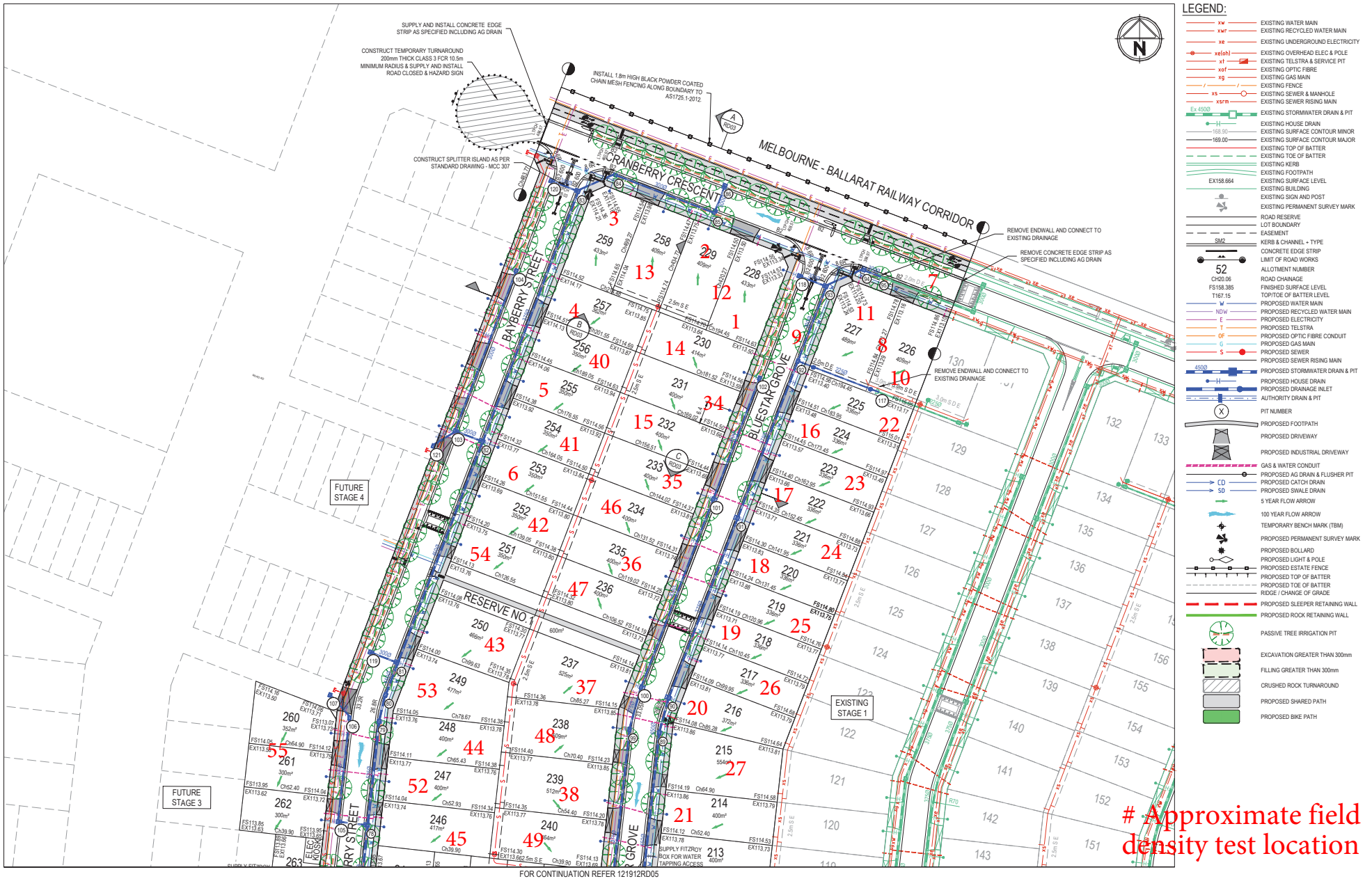
We are of the view that the bulk fill materials that have been placed across the reported allotments by Winslow Constructors during the aforementioned period can be considered as having been placed in a controlled manner to a minimum density ratio of 95% (standard compactive effort).

Please contact the undersigned if you require any additional information.

Civil Geotechnical Services

Nick Brock

FIGURE 1 (1 of 2)



Approximate field density test location

REV.	AMENDMENTS	APP'D	DATE
A	ISSUED FOR TENDER	T. BARBOUR	24.05.2023

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

DIAL BEFORE YOU DIG 1100

Colliers

PM	T. BARBOUR
DESIGNED	23.08.2023 S. FALKENSTEIN
CHECKED	23.08.2023 T. BARBOUR
AUTHORISED	23.08.2023 T. BARBOUR
MELWAYS	344 C7
POS No.	PS902801L
STATUS	PRELIMINARY

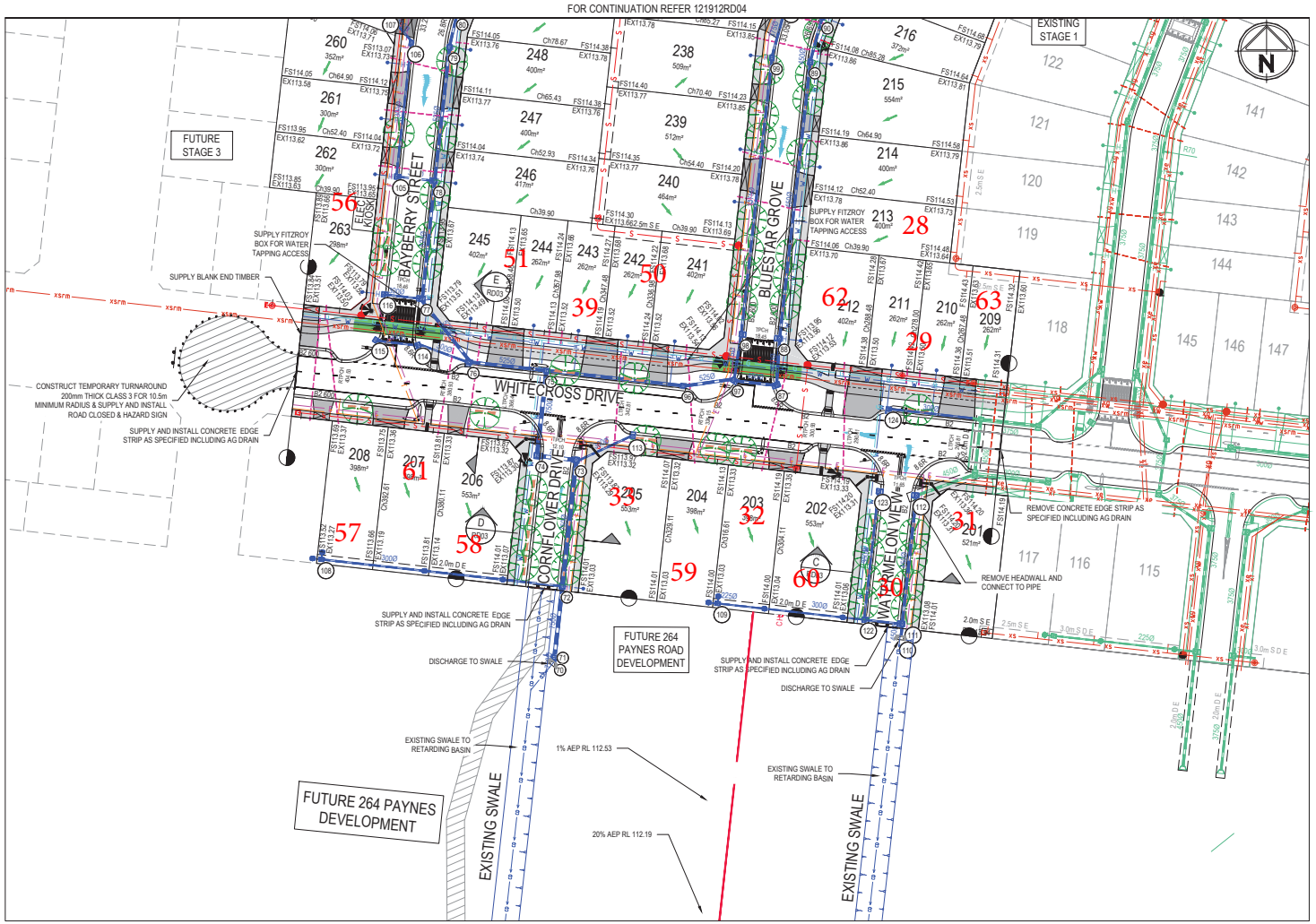
Horizontal Scale 1:500,A1 — Vertical 0 5 10 15 20 25

236 PAYNES ROAD STAGE 2
THE THORNHILL GARDENS
CITY OF MELTON
DETAIL PLAN - 1

121912RD04

SHEET No. 4 OF 34
REV. A

FIGURE 1 (2 of 2)



LEGEND:

- EXISTING WATER MAIN
- EXISTING RECYCLED WATER MAIN
- EXISTING UNDERGROUND ELECTRICITY
- EXISTING OVERHEAD ELEC & POLE
- EXISTING TELSTRA & SERVICE PIT
- EXISTING OPTIC FIBRE
- EXISTING GAS MAIN
- EXISTING FENCE
- EXISTING SEWER & MANHOLE
- EXISTING SEWER RISING MAIN
- EXISTING STORMWATER DRAIN & PIT
- EXISTING HOUSE DRAIN
- EXISTING SURFACE CONTOUR MINOR
- EXISTING SURFACE CONTOUR MAJOR
- EXISTING TOP OF BATTER
- EXISTING TOE OF BATTER
- EXISTING KERB
- EXISTING FOOTPATH
- EXISTING SURFACE LEVEL
- EXISTING BUILDING
- EXISTING SIGN AND POST
- EXISTING PERMANENT SURVEY MARK
- ROAD RESERVE
- LOT BOUNDARY
- EASEMENT
- KERB & CHANNEL + TYPE
- CONCRETE EDGE STRIP
- LIMIT OF ROAD WORKS
- ALLOTMENT NUMBER
- ROAD CHAINAGE
- FINISHED SURFACE LEVEL
- TOP/TOE OF BATTER LEVEL
- PROPOSED WATER MAIN
- PROPOSED RECYCLED WATER MAIN
- PROPOSED ELECTRICITY
- PROPOSED TELSTRA
- PROPOSED OPTIC FIBRE CONDUIT
- PROPOSED GAS MAIN
- PROPOSED SEWER
- PROPOSED SEWER RISING MAIN
- PROPOSED STORMWATER DRAIN & PIT
- PROPOSED HOUSE DRAIN
- PROPOSED DRAINAGE INLET
- AUTHORITY DRAIN & PIT
- PIT NUMBER
- PROPOSED FOOTPATH
- PROPOSED DRIVEWAY
- PROPOSED INDUSTRIAL DRIVEWAY
- GAS & WATER CONDUIT
- PROPOSED AG DRAIN & FLUSHER PIT
- PROPOSED CATCH DRAIN
- PROPOSED SWALE DRAIN
- 5 YEAR FLOW ARROW
- 100 YEAR FLOW ARROW
- TEMPORARY BENCH MARK (TBM)
- PROPOSED PERMANENT SURVEY MARK
- PROPOSED BOLLARD
- PROPOSED LIGHT & POLE
- PROPOSED ESTATE FENCE
- PROPOSED TOP OF BATTER
- PROPOSED TOE OF BATTER
- RIDGE / CHANGE OF GRADE
- PROPOSED SLEEPER RETAINING WALL
- PROPOSED ROCK RETAINING WALL
- PASSIVE TREE IRRIGATION PIT
- EXCAVATION GREATER THAN 300mm
- FILLING GREATER THAN 300mm
- CRUSHED ROCK TURNAROUND
- PROPOSED SHARED PATH
- PROPOSED BIKE PATH

Approximate field density test location

REV.	AMENDMENTS	APP'D	DATE
A	ISSUED FOR TENDER	T. BARBOUR	24.05.2023

WARNING
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DIAL BEFORE YOU DIG www.1100.com.au

Colliers

PM	T. BARBOUR
DESIGNED	23.08.2023 S. FALKENSTEIN
CHECKED	23.08.2023 T. BARBOUR
AUTHORISED	23.08.2023 T. BARBOUR
MEL WAYS	344 C7
POS No.	PS902801L
STATUS	PRELIMINARY

Horizontal 0 5 10 15 20 25
Scale 1:500,A1
Vertical 0 5 10 15 20 25

236 PAYNES ROAD STAGE 2
THE THORNHILL GARDENS
CITY OF MELTON
DETAIL PLAN - 2

121912RD05

SHEET No. 5 OF 34
REV. A

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R001
		Date Issued	17/10/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	12/10/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	10:46

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*	1.94	1.94	1.95	1.95	1.92	1.92
Field moisture content	*%*	24.9	25.4	24.7	25.4	24.2	25.7

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*	2.05	2.00	2.01	2.00	2.00	2.00
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	24.5	26.0	23.5	26.0	25.0	25.5

Moisture Variation From Optimum Moisture Content	0.5% wet	0.5% dry	1.0% wet	0.5% dry	0.5% dry	0.0%

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})	*%*	**95.0**	**96.5**	**97.0**	**97.0**	**96.0**	**96.0**

Material description

No 1 - 6 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R002
		Date Issued	17/10/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	BS
Project	NEW GARDENS NORTH - STAGE 2	Date tested	13/10/23
Location	THORNHILL PARK	Checked by	JHF

Feature **EARTHWORKS** | Layer thickness 200 mm | Time: 14:27

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**7**	**8**	**9**	**-**	**-**	**-**
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	2.06	2.07	2.05	-	-	-
Field moisture content	%	23.7	22.0	23.1	-	-	-

Test procedure AS 1289.5.7.1

Test No		7	8	9	-	-	-
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	2.10	2.11	2.09	-	-	-
Adjusted Peak Converted Wet Density	t/m³	-	-	-	-	-	-
Optimum Moisture Content	%	24.0	24.5	23.5	-	-	-

Moisture Variation From Optimum Moisture Content		0.0%	2.0% dry	0.5% 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**	**98.5**	**98.0**	**-**	**-**	**-**

Material description

No 7 - 9 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R003
		Date Issued	23/10/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	16/10/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 15:10

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*	2.03	2.00	2.01	1.99	2.02	1.98
Field moisture content	*%*	18.1	20.5	19.7	20.7	17.1	18.0

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	19.0
Percent of oversize material	*wet*	0	0	0	0	0	0
Peak Converted Wet Density	*t/m³*	2.04	2.05	2.06	2.02	2.03	2.01
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	18.0	21.0	19.5	21.0	17.0	20.5

Moisture Variation From Optimum Moisture Content		0.0%	0.5% dry	0.5% wet	0.0%	0.0%	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**	**97.0**	**97.0**	**98.5**	**99.0**	**99.0**

Material description

No 10 - 15 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R004
		Date Issued	23/10/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	17/10/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 12:52

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/m³*	2.01	2.01	1.96	1.92	2.01	2.03
Field moisture content	*%*	22.4	21.1	21.6	21.1	24.3	20.4

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/m³*	2.04	2.04	2.01	1.94	2.03	2.08
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	22.5	21.0	22.0	21.5	23.5	20.5

Moisture Variation From Optimum Moisture Content		0.0%	0.0%	0.0%	0.5% dry	0.5% wet	0.0%

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**	**97.5**	**99.5**	**99.0**	**97.5**

Material description

No 16 - 21 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R005
		Date Issued	25/10/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	20/10/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 12:14

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	175
Field wet density	*t/m³*	1.85	1.84	1.87	1.88	1.84	1.84
Field moisture content	*%*	22.5	22.3	22.0	22.4	23.4	24.4

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	19.0
Percent of oversize material	*wet*	0	0	0	0	0	0
Peak Converted Wet Density	*t/m³*	1.90	1.90	1.92	1.90	1.88	1.89
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	22.5	21.5	22.5	23.0	24.0	24.5

Moisture Variation From Optimum Moisture Content		0.0%	0.5% wet	0.5% dry	0.5% dry	0.5% dry	0.0%

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**	**97.0**	**97.5**	**99.0**	**98.0**	**97.0**

Material description

No 22 - 27 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R006
		Date Issued	13/11/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	08/11/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 11:34

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*	1.90	1.88	1.95	1.88	1.93	1.92
Field moisture content	*%*	23.9	25.1	25.5	27.9	27.9	28.0

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*	1.91	1.92	1.96	1.93	1.99	1.99
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	26.5	27.5	28.0	30.0	30.5	30.5

Moisture Variation From Optimum Moisture Content		2.5% dry	2.0% dry	2.5% 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})	*%*	**99.0**	**98.0**	**99.0**	**98.0**	**96.5**	**96.5**

Material description

No 28 - 33 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R007
		Date Issued	14/11/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	09/11/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 11:35

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	175
Field wet density	*t/m³*	1.87	1.87	1.85	1.84	1.86	1.87
Field moisture content	*%*	25.4	27.4	27.7	29.0	27.6	28.3

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	19.0
Percent of oversize material	*wet*	0	0	0	0	0	0
Peak Converted Wet Density	*t/m³*	1.90	1.87	1.88	1.86	1.89	1.92
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	25.0	27.5	30.0	32.0	30.0	30.5

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

Material description

No 34 - 39 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R008
		Date Issued	16/11/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	13/11/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature **EARTHWORKS** *Layer thickness* 200 mm *Time:* 11:21

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	175
Field wet density	*t/m³*	1.78	1.77	1.77	1.78	1.78	1.78
Field moisture content	*%*	21.1	19.3	20.6	21.0	21.0	20.4

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	19.0
Percent of oversize material	*wet*	0	0	0	0	0	0
Peak Converted Wet Density	*t/m³*	1.85	1.86	1.84	1.84	1.86	1.83
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	24.0	21.5	23.0	23.5	22.0	23.0

Moisture Variation From Optimum Moisture Content		2.5% dry	2.0% dry	2.5% dry	2.5% dry	1.0% 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})	*%*	**96.0**	**95.0**	**96.5**	**97.0**	**95.5**	**97.5**

Material description

No 40 - 45 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R009
		Date Issued	16/11/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	NEW GARDENS NORTH - STAGE 2	Date tested	14/11/23
Location	THORNHILL PARK	Checked by	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	12:40

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**46**	**47**	**48**	**-**	**-**	**-**
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*	1.90	1.85	1.90	-	-	-
Field moisture content	*%*	18.1	22.3	17.2	-	-	-

Test procedure AS 1289.5.7.1

Test No		46	47	48	-	-	-
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*	1.99	1.91	1.99	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	20.5	24.5	19.0	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% 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})	*%*	**95.5**	**96.5**	**95.5**	**-**	**-**	**-**

Material description

No 46 - 48 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R010
		Date Issued	27/11/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	*Tested by*	AM
Project	NEW GARDENS NORTH - STAGE 2	*Date tested*	16/11/23
Location	THORNHILL PARK	*Checked by*	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	10:32

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**49**	**50**	**51**	**52**	**53**	**54**
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	2.02	2.02	2.02	2.00	2.02
Field moisture content	*%*	18.0	19.5	19.6	18.5	18.5	20.6

Test procedure AS 1289.5.7.1

Test No		49	50	51	52	53	54
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	2.03	2.06	2.06	2.01	2.06
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	20.0	22.0	22.0	20.5	19.5	23.0

Moisture Variation From Optimum Moisture Content		2.0% dry	2.0% dry	2.5% dry	2.0% dry	1.0% 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**	**99.0**	**98.5**	**98.0**	**100.0**	**98.5**

Material description

No 49 - 54 Clay Fill

Approved Signatory : Justin Fry

COMPACTION ASSESSMENT

CIVIL GEOTECHNICAL SERVICES
6 - 8 Rose Avenue, Croydon 3136

		Job No	23819
		Report No	23819/R011
		Date Issued	28/11/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	NEW GARDENS NORTH - STAGE 2	Date tested	17/11/23
Location	THORNHILL PARK	Checked by	JHF

Feature	**EARTHWORKS**	*Layer thickness*	200 mm	*Time:*	11:25

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**55**	**56**	**57**	**-**	**-**	**-**
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*	1.92	1.92	1.88	-	-	-
Field moisture content	*%*	16.8	16.4	17.1	-	-	-

Test procedure AS 1289.5.7.1

Test No		55	56	57	-	-	-
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*	1.98	1.96	1.92	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	18.0	19.0	19.0	-	-	-

Moisture Variation From Optimum Moisture Content	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})	*%*	**97.5**	**98.0**	**98.0**	**-**	**-**	**-**

Material description

No 55 - 57 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	23819
		Report No	23819/R012
		Date Issued	27/11/23
Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	NEW GARDENS NORTH - STAGE 2	Date tested	21/11/23
Location	THORNHILL PARK	Checked by	JHF

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

Test procedure AS 1289.2.1.1 & 5.8.1

Test No		**58**	**59**	**60**	**-**	**-**	**-**
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*	1.92	1.92	1.90	-	-	-
Field moisture content	*%*	18.4	20.3	19.0	-	-	-

Test procedure AS 1289.5.7.1

Test No		58	59	60	-	-	-
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*	1.95	1.99	1.96	-	-	-
Adjusted Peak Converted Wet Density	*t/m³*	-	-	-	-	-	-
Optimum Moisture Content	*%*	21.0	22.0	21.0	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	1.5% 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})	*%*	**98.0**	**96.5**	**97.0**	**-**	**-**	**-**

Material description

No 58 - 60 Clay Fill

Approved Signatory : Justin Fry