



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

12th January 2023

Our Reference: 22457:NB1431

Winslow Constructors Pty Ltd
50 Barry Road
CAMPBELLFIELD VIC 3061

Dear Sirs/Madams,

RE: LEVEL 1 EARTHWORKS INSPECTION AND TESTING
ASPIRE – STAGE 31 (PLUMPTON)

Please find attached our Report No's 22457/R001 and 22457/R006 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 June 2022 and was completed in July 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).

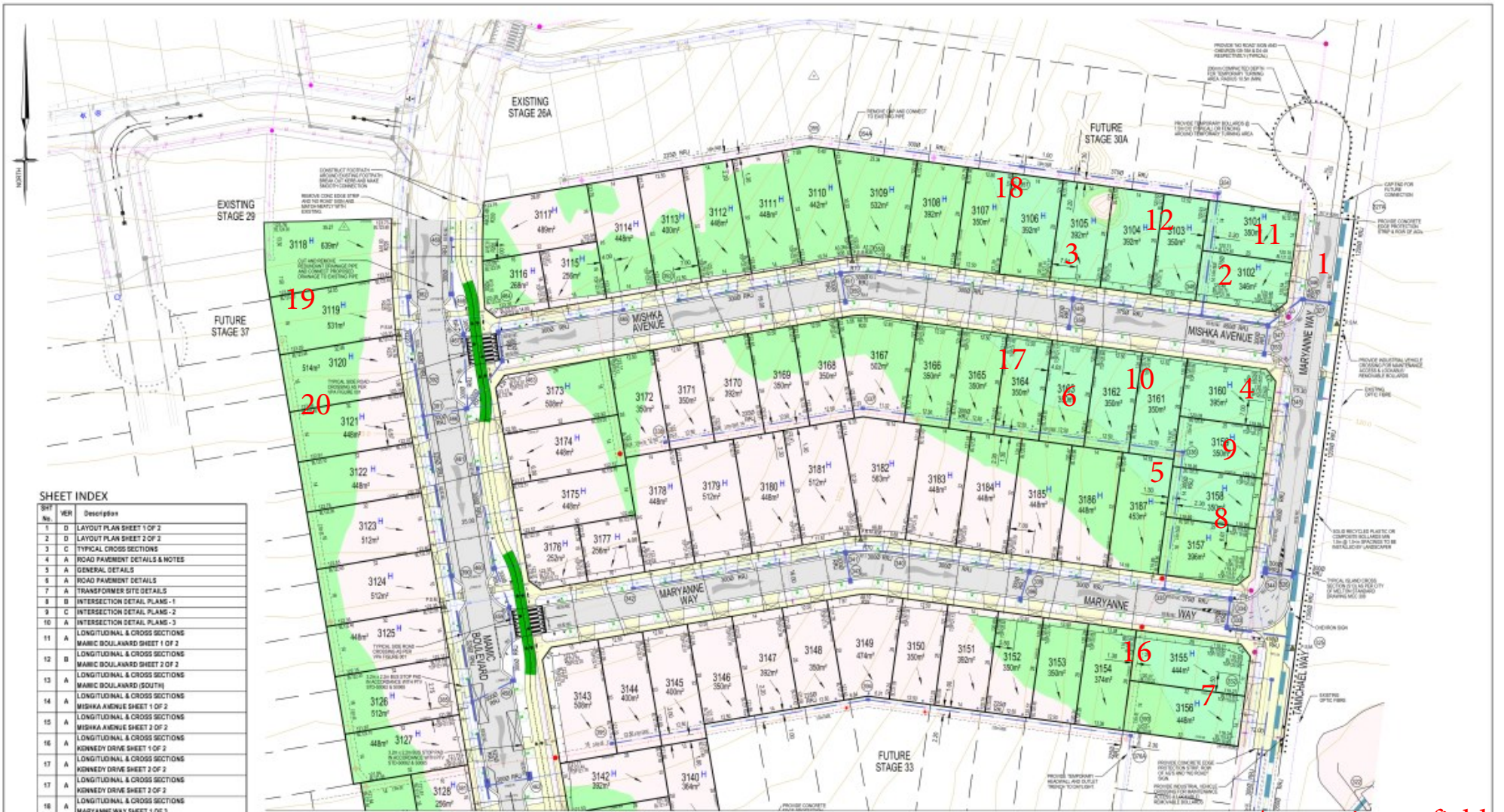
Please contact the undersigned if you require any additional information.

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 (1 of 2)



SHEET No.	REF	Description
1	D	LAYOUT PLAN SHEET 1 OF 2
2	D	LAYOUT PLAN SHEET 2 OF 2
3	C	TYPICAL CROSS SECTIONS
4	A	ROAD PAVEMENT DETAILS & NOTES
5	A	GENERAL DETAILS
6	A	ROAD PAVEMENT DETAILS
7	A	TRANSFORMER SITE DETAILS
8	B	INTERSECTION DETAIL PLANS - 1
9	C	INTERSECTION DETAIL PLANS - 2
10	A	INTERSECTION DETAIL PLANS - 3
11	A	LONGITUDINAL & CROSS SECTIONS MAMIC BOULVARD SHEET 1 OF 2
12	B	LONGITUDINAL & CROSS SECTIONS MAMIC BOULVARD SHEET 2 OF 2
13	A	LONGITUDINAL & CROSS SECTIONS MAMIC BOULVARD (SOUTH)
14	A	LONGITUDINAL & CROSS SECTIONS MISHKA AVENUE SHEET 1 OF 2
15	A	LONGITUDINAL & CROSS SECTIONS MISHKA AVENUE SHEET 2 OF 2
16	A	LONGITUDINAL & CROSS SECTIONS KENNEDY DRIVE SHEET 1 OF 2
17	A	LONGITUDINAL & CROSS SECTIONS KENNEDY DRIVE SHEET 2 OF 2
17	A	LONGITUDINAL & CROSS SECTIONS KENNEDY DRIVE SHEET 2 OF 2
18	A	LONGITUDINAL & CROSS SECTIONS MARYANNE WAY SHEET 1 OF 3
19	A	LONGITUDINAL & CROSS SECTIONS MARYANNE WAY SHEET 2 OF 3
20	A	LONGITUDINAL & CROSS SECTIONS MARYANNE WAY SHEET 3 OF 3
21	A	PASSIVE IRRIGATION PLAN
22	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
23	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
24	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3
25	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 4
26	C	DRAINAGE LONGITUDINAL SECTIONS - SHEET 5
27	B	DRAINAGE LONGITUDINAL SECTIONS - SHEET 6
28	B	DRAINAGE LONGITUDINAL SECTIONS - SHEET 7
29	C	DRAINAGE STRUCTURE DETAILS
30	B	GRANAGE & IRRIGATION PLAN
31	B	PASSIVE IRRIGATION PLAN
32	B	MOBILITY PLAN
33	A	BUS BAY DETAILS
34	B	EARTHWORKS PLAN

NOTE:
REFER SHEET 2 FOR CONTINUATION

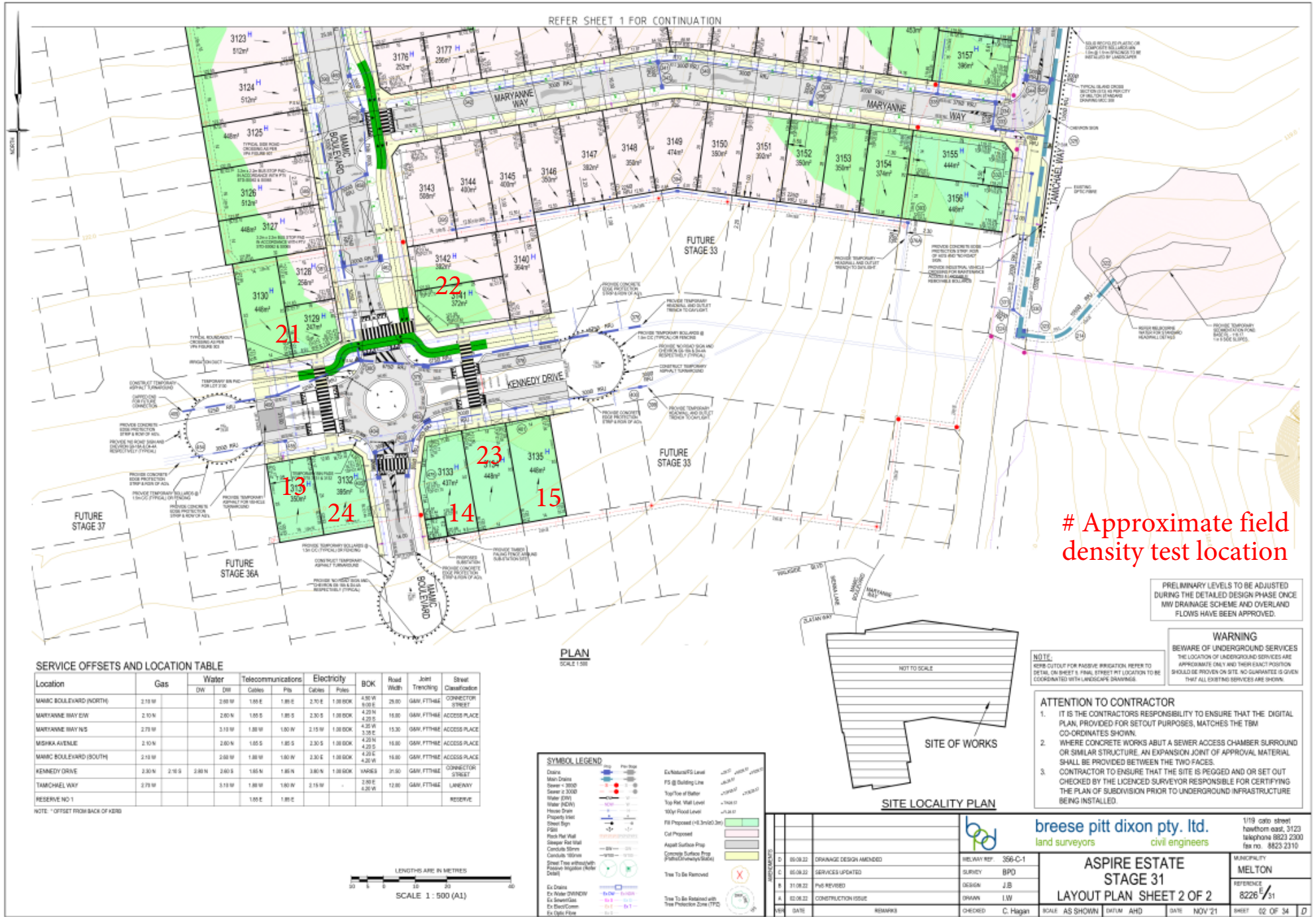
PLAN SCALE 1:500

ATTENTION TO CONTRACTOR

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE DIGITAL PLAN, PROVIDED FOR SETOUT PURPOSES, MATCHES THE TBM CO-ORDINATES SHOWN.
- WHERE CONCRETE WORKS ABOUT A SEWER ACCESS CHAMBER SURROUND OR SIMILAR STRUCTURE, AN EXPANSION JOINT OF APPROVAL MATERIAL SHALL BE PROVIDED BETWEEN THE TWO FACES.
- CONTRACTOR TO ENSURE THAT THE SITE IS PEGGED AND OR SET OUT CHECKED BY THE LICENCED SURVEYOR RESPONSIBLE FOR CERTIFYING THE PLAN OF SUBDIVISION PRIOR TO UNDERGROUND INFRASTRUCTURE BEING INSTALLED.

SYMBOL LEGEND	
Diaria	Proposed
Main Drain	Proposed
Branch 1:3000	Proposed
Branch 2:3000	Proposed
Water 200	Proposed
Water 150	Proposed
Water 100	Proposed
Water 75	Proposed
Water 50	Proposed
Water 30	Proposed
Water 15	Proposed
Water 10	Proposed
Water 5	Proposed
Water 3	Proposed
Water 1.5	Proposed
Water 0.75	Proposed
Water 0.375	Proposed
Water 0.1875	Proposed
Water 0.09375	Proposed
Water 0.046875	Proposed
Water 0.0234375	Proposed
Water 0.01171875	Proposed
Water 0.005859375	Proposed
Water 0.0029296875	Proposed
Water 0.00146484375	Proposed
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Water	

FIGURE 1 (2 of 2)





COMPACTION ASSESSMENT

Job No 22457
 Report No 22457/R001
 Date Issued 01/07/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 31	Date tested	29/06/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 11:16
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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	1.90	1.90	1.86	-	-	-
Field moisture content %	28.1	27.9	27.1	-	-	-

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	1.94	1.93	1.95	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	30.5	30.0	29.0	-	-	-

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}) %	98.0	98.5	95.5	-	-	-
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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 22457
 Report No 22457/R002
 Date Issued 12/07/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 31	Date tested	30/06/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 13:02
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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 ³	1.87	1.86	1.82	-	-
Field moisture content	%	29.4	32.0	28.1	-	-

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 ³	1.93	1.90	1.86	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	32.0	32.5	30.5	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	0.5% 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})	%	96.5	98.0	98.0	-	-
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Material description

No 4 - 6 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 22457
 Report No 22457/R003
 Date Issued 12/07/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 31	Date tested	01/07/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 10:56
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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/m ³	1.98	2.00	1.97	-	-
Field moisture content	%	29.4	29.4	28.8	-	-

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/m ³	2.00	2.02	1.99	-	-
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-
Optimum Moisture Content	%	30.5	30.5	29.0	-	-

Moisture Variation From Optimum Moisture Content	1.0% dry	1.0% 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 _{HD})	%	99.0	99.0	99.0	-	-
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Material description

No 7 - 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 22457
 Report No 22457/R004
 Date Issued 12/07/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 31	Date tested	04/07/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 12:09
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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	1.80	1.79	1.83	1.91	1.94	1.93
Field moisture content	%	29.2	27.9	28.8	27.8	26.5	30.3

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	1.81	1.84	1.89	1.99	1.98	1.96
Adjusted Peak Converted Wet Density	t/m ³	-	-	-	-	-	-
Optimum Moisture Content	%	31.5	30.0	31.0	30.0	29.0	32.5

Moisture Variation From Optimum Moisture Content	2.5% dry	2.0% dry	2.0% 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})	%	99.5	97.5	96.5	96.0	98.5	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 22457
 Report No 22457/R005
 Date Issued 14/07/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 31	Date tested	05/07/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 14:42
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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	1.90	1.89	1.90	1.90	1.89	1.92
Field moisture content %	28.4	27.7	30.0	30.3	29.5	29.2

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	1.94	1.91	1.95	1.95	1.94	1.96
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	30.5	28.0	32.5	33.0	31.5	30.5

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

No 16 - 21 Clay Fill

AVRLOT HILF V1.10 MAR 13



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 ISO/IEC 17025 - Testing

Approved Signatory : Justin Fry



COMPACTION ASSESSMENT

Job No 22457
 Report No 22457/R006
 Date Issued 14/07/2022

CIVIL GEOTECHNICAL SERVICES

6 - 8 Rose Avenue, Croydon 3136

Client	WINSLOW CONSTRUCTORS PTY LTD (CAMPBELLFIELD)	Tested by	AM
Project	ASPIRE - STAGE 31	Date tested	05/07/22
Location	PLUMPTON	Checked by	JHF

Feature	EARTHWORKS	Layer thickness	200 mm	Time: 14:45
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Test procedure AS 1289.2.1.1 & 5.8.1

Test No	22	23	24	-	-	-
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	1.92	1.91	1.90	-	-	-
Field moisture content %	26.4	28.0	27.1	-	-	-

Test procedure AS 1289.5.7.1

Test No	22	23	24	-	-	-
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	1.93	1.93	1.90	-	-	-
Adjusted Peak Converted Wet Density t/m ³	-	-	-	-	-	-
Optimum Moisture Content %	29.0	30.5	28.5	-	-	-

Moisture Variation From Optimum Moisture Content	2.5% dry	2.5% dry	1.5% 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}) %	99.0	98.5	99.5	-	-	-
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Material description

No 22 - 24 Clay Fill

AVRLOT HILF V1.10 MAR 13



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Approved Signatory : Justin Fry