

Job No: S1146124_W24-04545

15 November 2024

MGC Civil
Unit 7, 56 Prindiville Drive
Wangara WA 6065

Attention: Mr Abhishek Patel

EARTHWORKS COMPLETION REPORT BROOKLANDS A10 – PARK ST HENLEY BROOK

1. INTRODUCTION

At the request of Mr Abhishek Patel of MGC Civil, a representative from Structerre Consulting regularly attended the above site from July to October 2024 to undertake earthworks verification assessments. The purpose of this assessment is to provide a Site Classification in accordance with AS 2870-2011 Residential slabs and footings and Geotechnical Certification after completion of bulk earthworks.

A copy of the plan outlining the development is attached to this letter.

2. FIELDWORK

2.1. FIELDWORK BY STRUCTERRE

A representative from Structerre Consulting, (Structerre), attended the site during and at the completion of the project to assess works. Field testing comprising of hand auger boreholes, Perth Sand Penetrometer (PSP) tests (in accordance with AS 1289 6.3.3), and Field Constant Head Permeability Testing (in accordance with AS 1547).

Testing was conducted by Structerre to confirm the following:

- Adequate removal of topsoils and vegetation.
- Inspection of stripped surface for material suitability.
- Assessment of stripped surface for compaction.
- Audit of compaction of fill materials placed.
- Audit boreholes to confirm thickness of inert fill and or in-situ sand.

Ground conditions of the site at completion of the earthworks were obtained by hand auger and are summarised below:

Location	Description
BH 1	0-600mm SAND SP, brown, fine to medium grained, non-plastic. 600-1000mm SAND SP, grey, fine to medium grained, non-plastic. 1000-1800mm SAND SP, pale grey, fine to medium grained, non-plastic.
BH 2	0-700mm SAND SP, brown, fine to medium grained, non-plastic. 700-1200mm SAND SP, grey, fine to medium grained, non-plastic. 1200-1800mm SAND SP, pale grey, fine to medium grained, non-plastic.
BH 3	0-600mm SAND SP, brown, fine to medium grained, non-plastic. 600-1100mm SAND SP, grey, fine to medium grained, non-plastic. 1100-1800mm SAND SP, pale grey, fine to medium grained, non-plastic.
BH 4	0-1300mm SAND SP, brown, fine to medium grained, non-plastic. 1300-1800mm SAND SP, grey, fine to medium grained, non-plastic.
BH 5	0-1200mm SAND SP, brown, fine to medium grained, non-plastic. 1200-1800mm SAND SP, grey, fine to medium grained, non-plastic.

General observations and the subsequent results obtained from Structerre's audit testing on site indicate the earthworks were conducted in accordance with AS 3798-2007 Guidelines on earthworks for commercial and residential developments and provided drawings.

2.2. FIELDWORK BY OTHERS

During the earthworks, the Contractor performed regular compaction testing using a PSP to test the compaction of placed fill materials. These test results form part of the assessment in determining site classification for the stage.

3. SITE CLASSIFICATION

AS 2870-2011 provides the site classification based on the determination of potential surface movements from seasonal moisture change. Based on the site testing and observations performed by Structerre, in addition to the information forwarded by MGC Civil, Brooklands A10 – Park Street, Henley Brook can be classified as:

Site Classification Class 'A'.

These assessments are based on the following:

- All stormwater runoff from roofs and paved areas is disposed of as far as practical from structures to reduce the risk of differential settlements.

This assessment is based on the site condition at the time of testing by Structerre. No allowance has been made for future disturbance for installation of underground services, or additional earthworks by builders or others. Builders should carry out their own compaction checks on a lot-by-lot basis, compacting any localised loose areas where necessary.

Please note that the horizontal and vertical limits of the earthworks were determined by others, and as such, Structerre does not provide any comment as to whether these aspects are compliant with the plans and specifications for the project. Structerre does not guarantee earthwork construction,

nor relieve the earthwork contractor of their responsibility to perform the earthworks in accordance with the contract plans and specifications.

4. CONCLUSION

We trust this meets with your requirements. Should you require any additional information, or clarification of the above, please contact the undersigned.

For and behalf of

STRUCTERRE CONSULTING

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

Jacob Pritchard
Laboratory Supervisor

Appendices:

Appendix 1 – Site Plans

Appendix 2 – Test Results

References:

AS2870-2011 Residential Slabs and Footing

AS3798-2007 Guidelines on earthworks for commercial and residential developments

AS1289 Method of Testing Soil for Engineering Purposes

CMW Geosciences Geotechnical Investigation Report, PER2020-0452AB, Rev 0, December 2020

Technical Specification JDSi Consulting Engineers Ref JDS201817, dated 30 May 2023.

APPENDIX 1 – SITE PLANS



APPENDIX 2 – STRUCTERRE TEST RESULTS

Report Number: ASM:W24-02944
Date of Issue: 23/07/2024
Issue Number: 1

Material Test Report

Client:	MGC Civil
Client Address:	Unit 7, 56 Prindiville Drive Wangara WA 6065
Project:	Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No:	D340149

 Approved Signatory: Jacob Pritchard Accredited for compliance with ISO/IEC 17025
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Material Details			
Test Location	Import Fill	TRN	-
Soil Description	Sand	Proposed Use	Fill
Specification	N/A	Sampling Method	N/A
Depth of Test	0-300	Depth of Layer	600

Sample Details			
Sample ID	24S-07497		24S-07498
Field Sample ID	Site 1		Site 2
Date Sampled	19/07/2024		19/07/2024

Other Test Results			
Description	Method	Results	Limits
Average Permeability - AS1547 (m/day)	AS 1547	7.9	7.4
Average Permeability - Hvorslev (m/day)			
Internal Diameter of Reservoir (mm)		45	45
External Diameter of Air Breather (mm)		10	10
Depth of Water in Hole (mm)		250	250
Depth of Borehole (mm)		300	300
Diameter of Borehole (mm)		55	55
Date Tested		19/07/2024	19/07/2024

Comments
Hvorslev's method not used.

Report Number: ASM:W24-02944
Date of Issue: 23/07/2024
Issue Number: 1

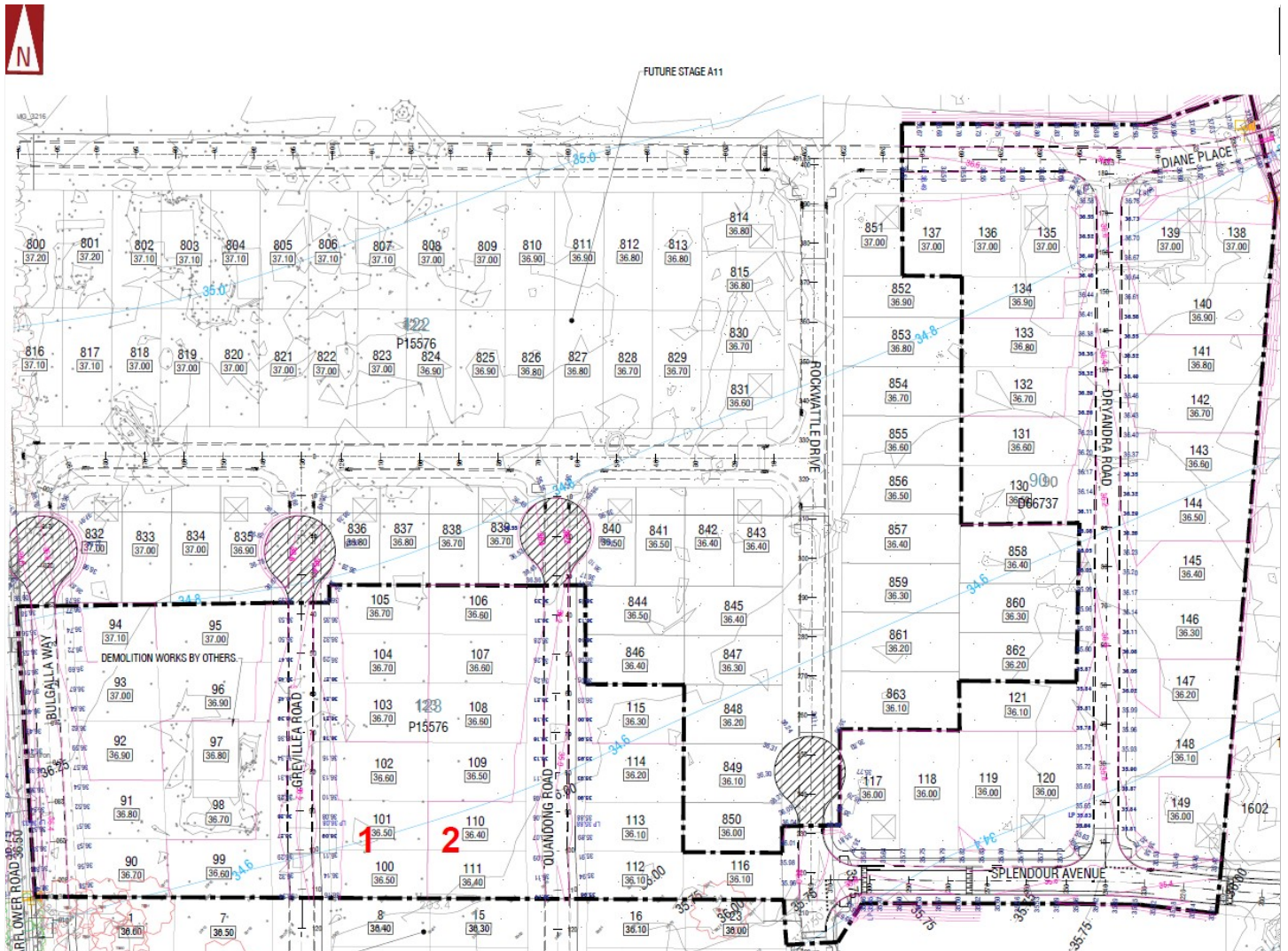
Material Test Report

Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025



Daily Summary Field Report

Report No.: DSFR:W24-02973
Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D340149 - Brooklands A10, Henley Brook - PARK ST HENLEY
 BROOK
 HENLEY BROOK, WA

Reviewed By: Jacob Pritchard
Review Date: 7/23/2024

General Information

Work Date: 7/19/2024
Weather: Cloudy
Time Departed: 11:15 AM
Contractor:
Equipment Observed: Smooth Drum Roller

Representative: Triston Rice
Time Arrived: 8:05 AM
Time on Site (h): 3.17

Other Observations

At the request of MGC Civil, a representative from Strucsterre Consulting attended the Brooklands A10 project on the 19th of July 2024, to assess the proof compaction in the locations as marked out on the attached plan.

Vegetation has been removed from the site. Plant roots were observed in the soil and were sufficiently broken up and dispersed throughout the foundation material. The client advised us that topsoil has been mixed into the soil by ripping to a depth of 100mm and blending with a dozer.

The material was visually assessed for moisture and compaction and observed to be adequate. PSP testing was conducted to confirm compaction requirements and results can be found the report for work order W24-02943.

The assessed area is suitable to continue with fill placement.

Daily Summary Field Report

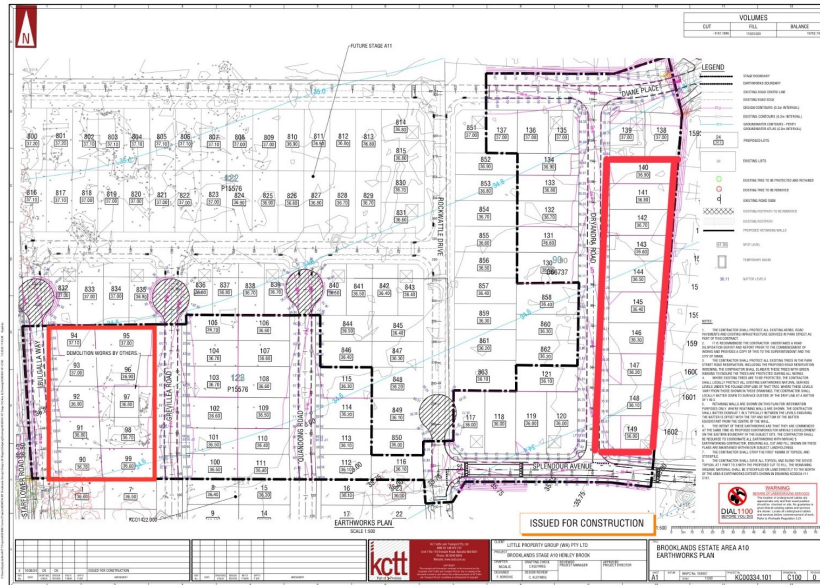
Report No.: DSFR:W24-02973
 Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D340149 - Brooklands A10, Henley Brook - PARK ST HENLEY
 BROOK
 HENLEY BROOK, WA

Reviewed By: Jacob Pritchard
 Review Date: 7/23/2024

Assessed Areas



Description:

Eastern Area Site Photo



Description:

Daily Summary Field Report

Report No.: DSFR:W24-02973
Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D340149 - Brooklands A10, Henley Brook - PARK ST HENLEY
 BROOK
 HENLEY BROOK, WA



Reviewed By: Jacob Pritchard
Review Date: 7/23/2024

Western Area Site Photo



Description:

Daily Summary Field Report

Report No.: DSFR:W24-02742
Issue No.: 1

Client: MGC Civil
Unit 7, 56 Prindiville Drive, Po Box 1639
Wangara WA 6947
Wangara, WA 6065
Project: D340149 - Brooklands A10, Henley Brook - PARK ST HENLEY
BROOK
HENLEY BROOK, WA


Reviewed By: Wayne Rozmianiec
Review Date: 7/15/2024

General Information

Work Date:	7/11/2024	Representative:	
Weather:	Fine	Time Arrived:	10:00 AM
Time Departed:	10:30 AM	Time on Site (h):	0.50
Contractor:	MGC Civil		

Other Observations

Site Inspection

At the request of MGC Civil, Strucsterre Consulting Engineers have attended the above site on the 11/7/24 to conduct an inspection of the vegetation removal and topsoil blending.

Vegetation has been removed the remaining topsoil raked and blended with the underlying layer to a depth of approximately 500mm.

Once proof compaction is complete, fill may be placed as required.

Daily Summary Field Report

Report No.: DSFR:W24-02742
Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D340149 - Brooklands A10, Henley Brook - PARK ST HENLEY
 BROOK
 HENLEY BROOK, WA

Wayne Rozmianiec
Reviewed By: Wayne Rozmianiec
Review Date: 7/15/2024

Blended and proofed area - 1



Description:

Blended and proofed area - 2



Description:

Daily Summary Field Report

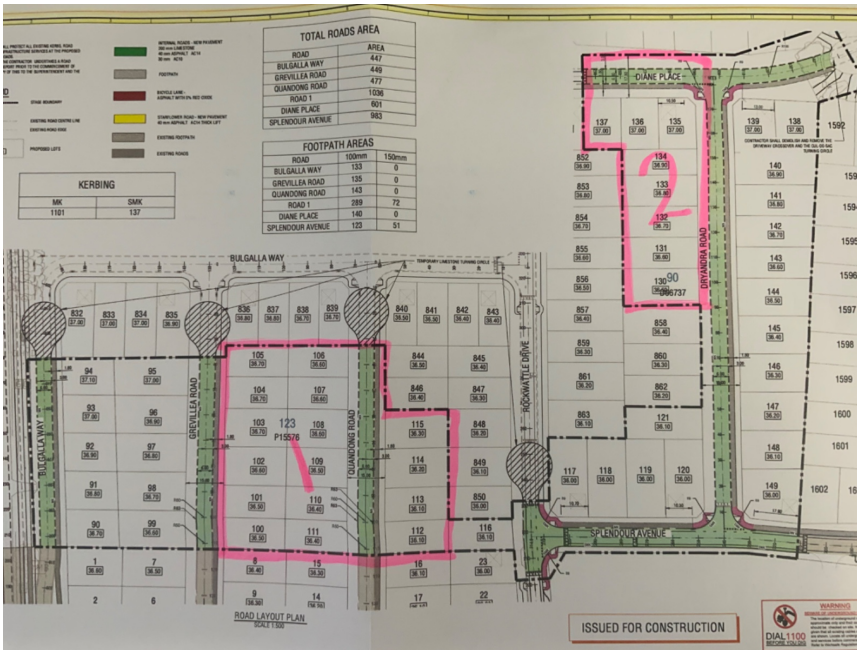
Report No.: DSFR:W24-02742
 Issue No.: 1

Client: MGC Civil
 Unit 7, 56 Prindiville Drive, Po Box 1639
 Wangara WA 6947
 Wangara, WA 6065

Project: D340149 - Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
 HENLEY BROOK, WA

Reviewed By: Wayne Rozmianiec
 Review Date: 7/15/2024

Plan



Description:

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:24S-11473

Date of issue: 23/10/2024

Issue Number: 1

Client: MGC Civil

Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065

Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149

Accreditation Number 18742



WORLD RECOGNISED
ACCREDITATION

K.L. Martin

Approved Signatory: Kieran Martin

Accredited for compliance with ISO/IEC 17025-Testing

Location: Earthworks Completion
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client

Sampling Method: N/A
Date Tested: 22/10/2024

Work Order ID: W24-04544
Sample ID: 24S-11473
Depth of Test (mm): 1050
Layer Thickness (mm): 1050

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	9	8	8	12	15	10	10	11	11
450 - 750	15	15	20	18	23	25	17	25+	21	18
750 - 1050	21	21	21	22	25+	25+	25+		25+	25+
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	11	12	13	14	15	16	17	18	19	20
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	12	25+	12	11	8	8	13	9	11	9
450 - 750	21	25+	25+	22	19	22	19	21	16	15
750 - 1050	25+			25+	21	22	25+	25+	25+	25+
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:24S-11474

Date of issue: 23/10/2024

Issue Number: 1

Client: MGC Civil

Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065

Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149

Accreditation Number 18742



K.L. Martin

Approved Signatory: Kieran Martin

Accredited for compliance with ISO/IEC 17025-Testing

Location: Earthworks Completion
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client

Sampling Method: N/A
Date Tested: 22/10/2024

Work Order ID: W24-04544
Sample ID: 24S-11474
Depth of Test (mm): 1050
Layer Thickness (mm): 1050

Test Results

Test Site No.	21	22	23	24	25	26	27			
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	12	10	12	18	13	15	11			
450 - 750	25+	22	25+	25+	15	24	24			
750 - 1050		25+			21	25+	25+			
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.										
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450										
450 - 750										
750 - 1050										
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Testing carried in accordance with the methods described in AS 1289.6.3.2 – depth greater than 450mm total penetration tested.

PSP Report

Client: MGC Civil

Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065

Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK

Project No: D340149

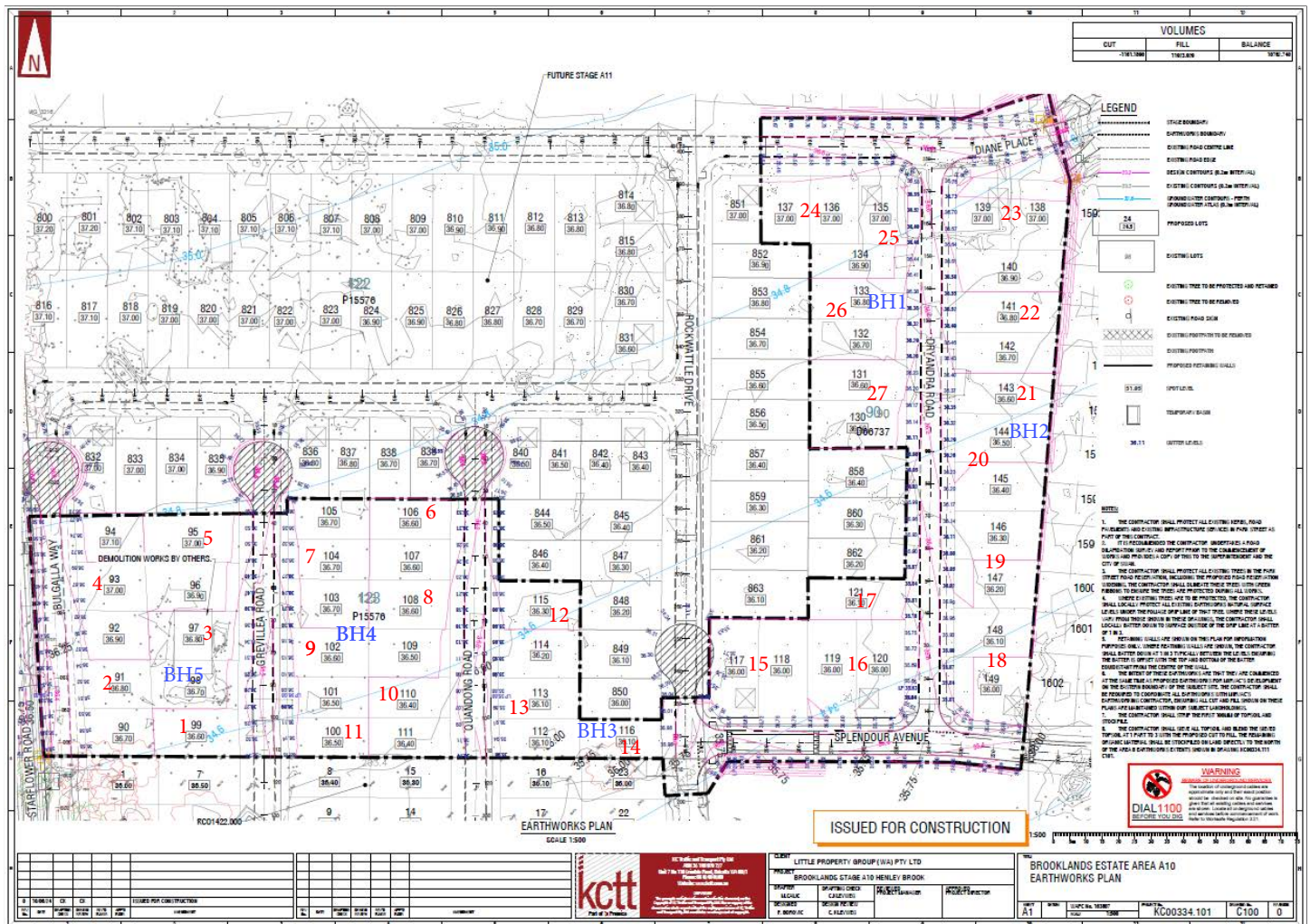
Report Number: PSP:24S-11474
Date of Issue: 23/10/2024
Issue Number: 1

Accreditation Number 18742



Approved Signatory: Kieran Martin

Accredited for compliance with ISO/IEC 17025



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:24S-06867

Date of issue: 08/07/2024

Issue Number: 1

Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Ben Stroop
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Proof Roll
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 05/07/2024

Work Order ID: W24-02640
Sample ID: 24S-06867
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	5	5	5	4	6	5	8	9	9	7
450 - 750	12	20	8	5	17	16	25+	25+	22	19
750 - 1050	21	25+	25+	8	25+	25+			25+	25+
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	11	12	13	14	15					
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	7	8	5	5	7					
450 - 750	22	25+	15	6	25					
750 - 1050	25+		25+	13	25+					
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Testing carried in accordance with the methods described in AS 1289.6.3.2 – depth greater than 450mm total penetration tested.

PSP Report

Client: MGC Civil Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065 Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK Project No: D340149	Report Number: PSP:24S-06867 Date of Issue: 08/07/2024 Issue Number: 1 Accreditation Number 18742   Approved Signatory: Ben Stroop Accredited for compliance with ISO/IEC 17025
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Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:24S-07121

Date of issue: 15/07/2024

Issue Number: 1

Client: MGC Civil

Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065

Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK

Project No: D340149

Accreditation Number 18742


 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Jacob Pritchard
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Stage A10 Proof Roll
Proposed Use: Foundation
Material Type: Sand
Site Selection Method: Client

Sampling Method: N/A
Date Tested: 12/07/2024

Work Order ID: W24-02774
Sample ID: 24S-07121
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	8	8	12	11	10	11	8	11	12
450 - 750	9	12	13	13	12	13	12	11	12	14
750 - 1050	14	14	16	16	14	15	14	15	16	16
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.										
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450										
450 - 750										
750 - 1050										
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Testing carried in accordance with the methods described in AS 1289.6.3.2 – depth greater than 450mm total penetration tested.

PSP Report

Report Number: PSP:24S-07121

Date of Issue: 15/07/2024

Issue Number: 1

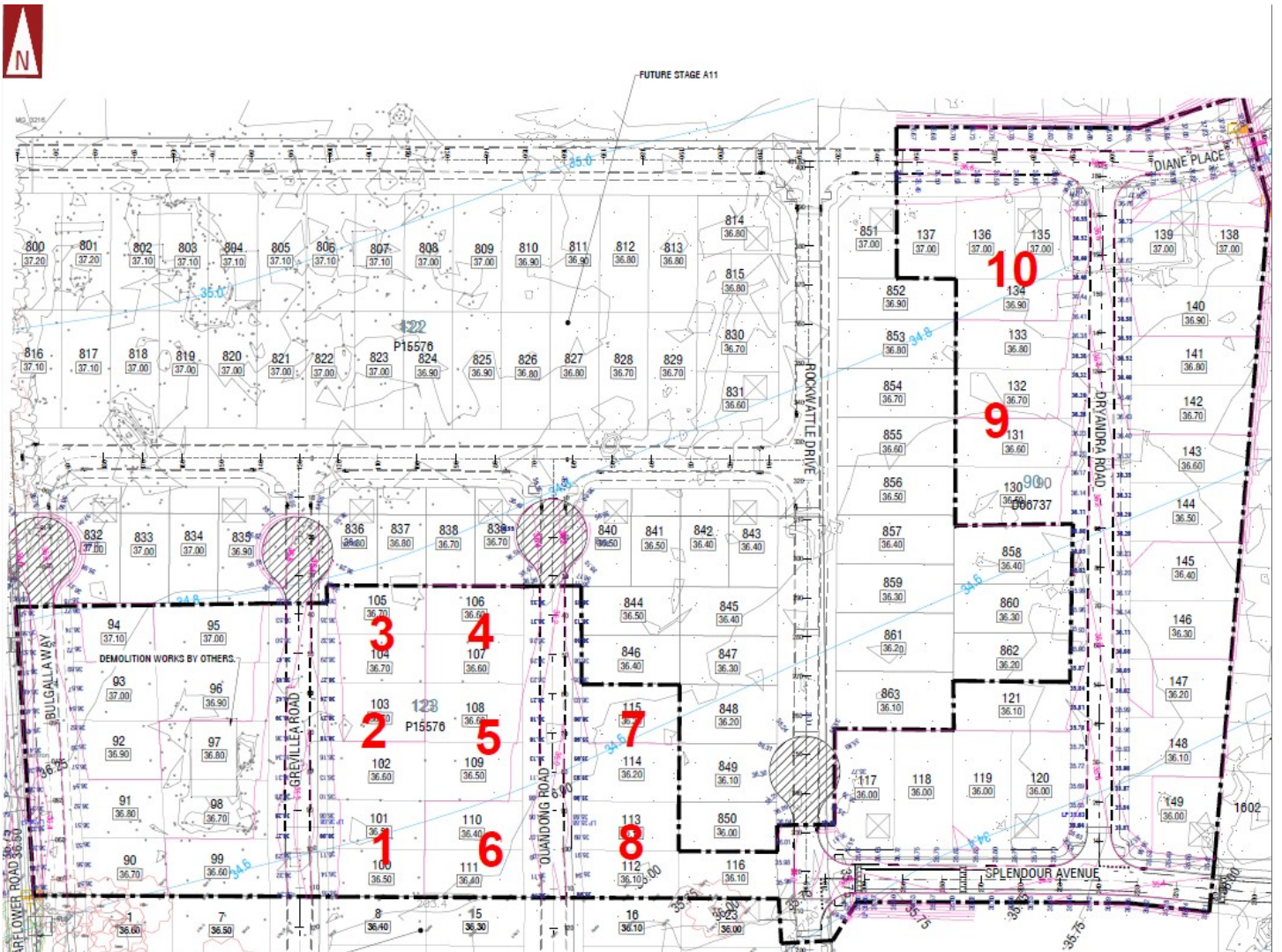
Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149

Accreditation Number 18742




Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:24S-07496

Date of issue: 23/07/2024

Issue Number: 1

Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Jacob Pritchard
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Area A10 Proof Compaction
Proposed Use: Foundation
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 19/07/2024
Work Order ID: W24-02943
Sample ID: 24S-07496
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	6	6	6	7	6	6	7	7	6	6
450 - 750	10	9	15	9	11	14	12	12	12	12
750 - 1050	15	14	20	17	16	18	22	17	17	19
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	11	12	13	14	15	16	17	18	19	20
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	6	6	6	6	6	6	6	6	6	6
450 - 750	11	10	14	10	13	14	12	13	12	12
750 - 1050	21	16	24	17	11	17	15	18	17	17
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Testing carried in accordance with the methods described in AS 1289.6.3.2 – depth greater than 450mm total penetration tested.

PSP Report

Report Number: PSP:24S-07496

Date of Issue: 23/07/2024

Issue Number: 1

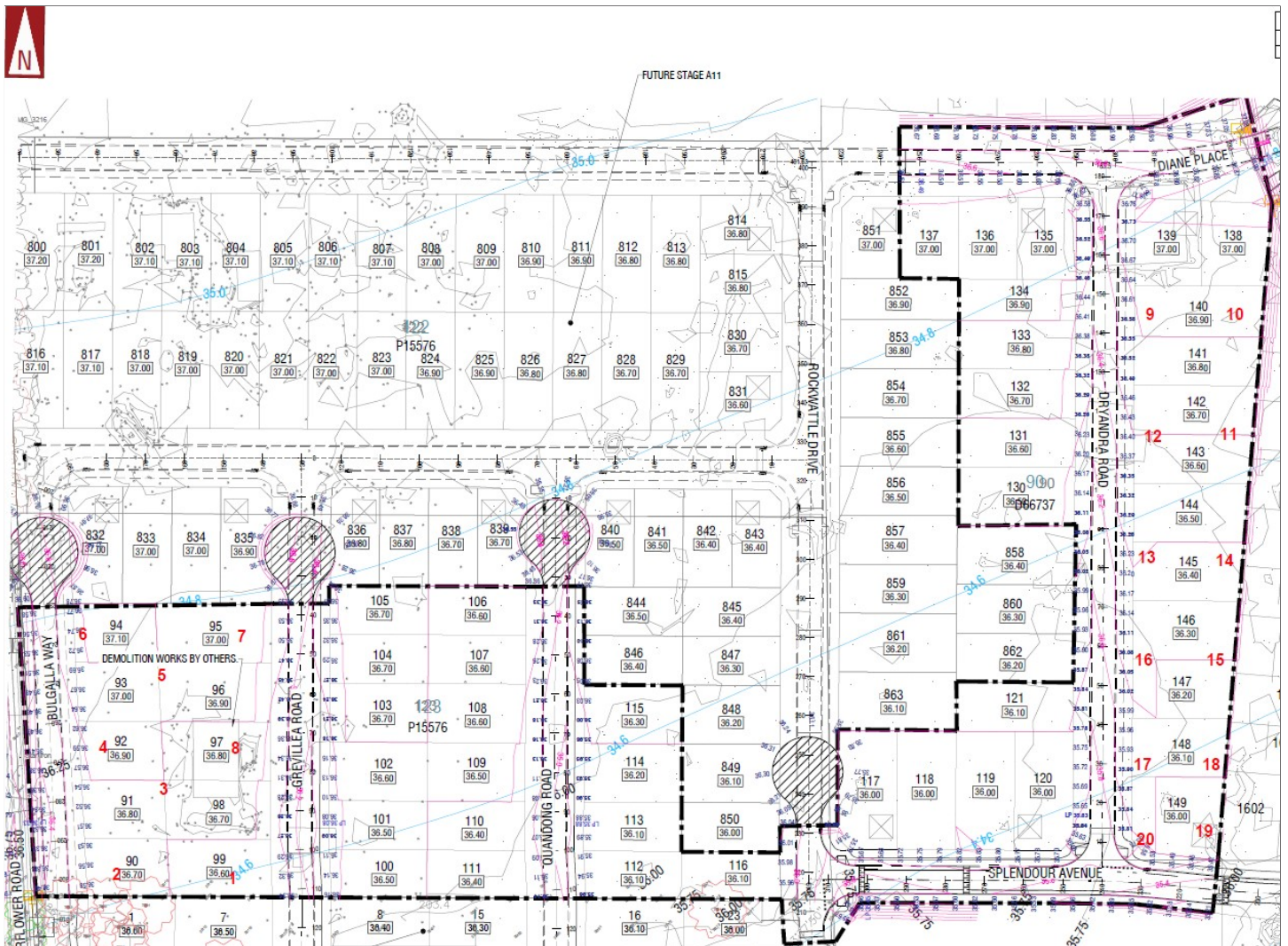
Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive Wangara WA 6065
Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149

Accreditation Number 18742




Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025



Compaction Correlation Report

Report Number CCR:W24-02805

16/07/2024

Issue 1

Client: MGC Civil
Client Address: Unit 7, 56 Prindiville Drive, Wangara 6065
Project: Brooklands A10, Henley Brook - PARK ST HENLEY BROOK
Project No: D340149



Authorised Signatory Jacob Pritchard

Sample Details

Location PSP Correlation
Laboratory Test Procedures AS 1289.5.2.1, AS 1289.5.8.1
Field Test Procedures AS 1289.5.8.1
Sampling Method AS1289.1.2.1 6.4(b) -Compacted
Date of Test 12 Jul 2024

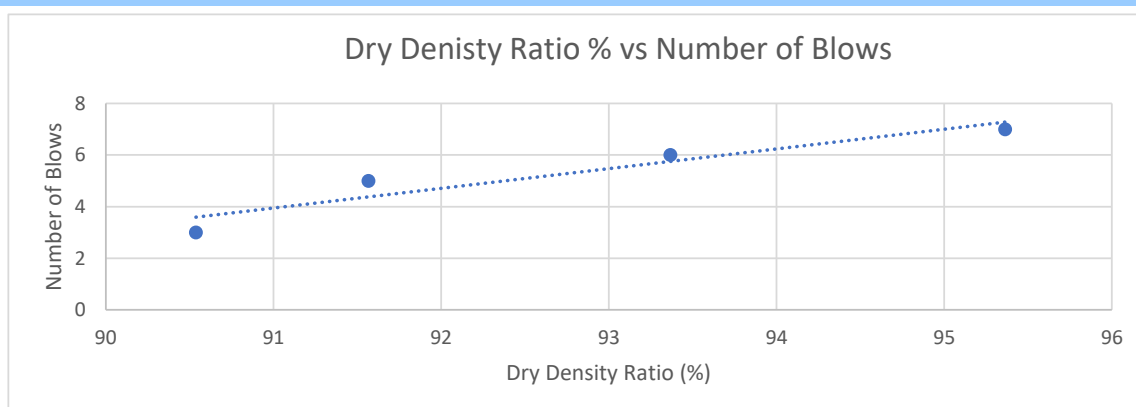
Field Test Results

Field Sample ID	1	2	3	4
Wet density (t/m ³)	1.70	1.81	1.80	1.82
Depth of Test (mm)	300	0	0	0
Thickness of the Layer (mm)	-	0	0	0
AS Sieve Size (mm)	19	19	19	19
Oversize Wet (%)	0	0	0	0
Oversize Dry (%)	0	0	0	0
Moisture content (%)	7.3	12.6	10.0	8.6
Dry density (t/m ³)	1.59	1.61	1.64	1.67
Moisture Ratio (%)	60.0	103.0	82.0	70.5
Moisture Variation (%)	5.0 DRY	-0.5 WET	2.0 DRY	3.5 DRY
Dry Density Ratio (%)	90.5	91.5	93.5	95.5
Number of Blows	3	5	6	7

Laboratory Test Results

Sample ID 24S-07172 **Maximum Dry Density (t/m³)** 1.75
Material Sand **Optimum Moisture Content (%)** 12.0
Proposed Use Fill

Correlation



The results indicate that 7 blows are required to obtain a Dry Density Ratio of 95 %

Comments

Compaction Correlation Report

Report Number CCR:W24-02972

24/07/2024

Issue 1

Client:	MGC Civil
Client Address:	Unit 7, 56 Prindiville Drive, Wangara 6065
Project:	Brooklands A10, Henley Brook PARK ST HENLEY BROOK
Project No:	D340149



Authorised Signatory Jacob Pritchard

Sample Details

Location	PSP Correlation
Laboratory Test Procedures	AS 1289.5.2.1, AS 1289.5.8.1
Field Test Procedures	AS 1289.5.8.1
Sampling Method	AS1289.1.2.1 6.4(b) -Compacted
Date of Test	19 Jul 2024

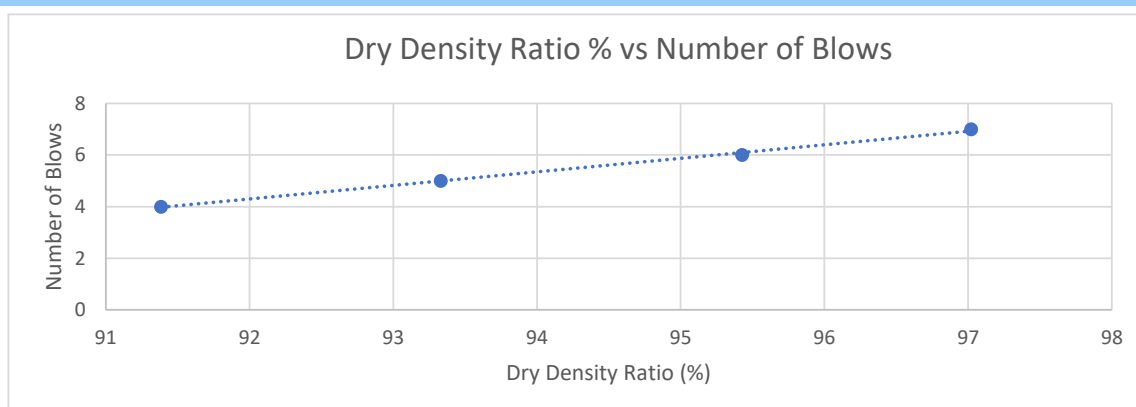
Field Test Results

Field Sample ID	1	2	3	4
Wet density (t/m ³)	1.77	1.88	1.96	1.92
Depth of Test (mm)	300	0	0	0
Thickness of the Layer (mm)	-	0	0	0
AS Sieve Size (mm)	19	19	19	19
Oversize Wet (%)	0	0	0	0
Oversize Dry (%)	0	0	0	0
Moisture content (%)	9.4	14.1	14.0	14.0
Dry density (t/m ³)	1.61	1.65	1.71	1.69
Moisture Ratio (%)	65.5	97.5	97.5	97.5
Moisture Variation (%)	5.0 DRY	0.5 DRY	0.5 DRY	0.5 DRY
Dry Density Ratio (%)	91.5	93.5	97.0	95.5
Number of Blows	4	5	7	6

Laboratory Test Results

Sample ID	24S-07557	Maximum Dry Density (t/m ³)	1.77
Material	Sand	Optimum Moisture Content (%)	14.5
Proposed Use	Fill		

Correlation



The results indicate that 6 blows are required to obtain a Dry Density Ratio of 95 %

Comments