CHADWICK GEOTECHNICS

REPORT

Level 1 Geotechnical Inspection and Testing Authority Services

Riverfield Square Estate Stage 31
Lots 3101 to 3125, 3133 and 3137

Prepared for:

Greenridge Properties Pty Ltd

September 2025

Our Ref: 1091938.031.R1.v1

25 Metcalf Street, Dandenong South, Vic 3175, Melbourne, Australia
www.chadwickgeotechnics.com.au

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Document Control

Title:	Level One Inspection and testing Services.				
Date	**Version**	**Description**	**Prepared by:**	**Reviewed by:**	**Authorised by**
September 2025	V1	Final	RHB	RWMc	MCDM

Distribution

Greenridge Properties Pty Ltd	1 PDF Copy
Chadwick Geotechnics Pty Ltd	1 PDF Copy

1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics), was engaged by Greenridge Properties Pty Ltd, to provide Level 1 Geotechnical Inspection and Testing Authority (GITA) services for the earthworks conducted within Stage 31 of the Riverfield Square Estate in Clyde North between 20 March 2025 and 2 August 2025.

Level 1 GITA services as defined in AS3798-2007 “Guidelines on Earthworks for Commercial and Residential Development,” requires full time inspection and field and laboratory testing of earthworks in accordance with AS1289 “Methods of Testing Soils for Engineering Purposes.”

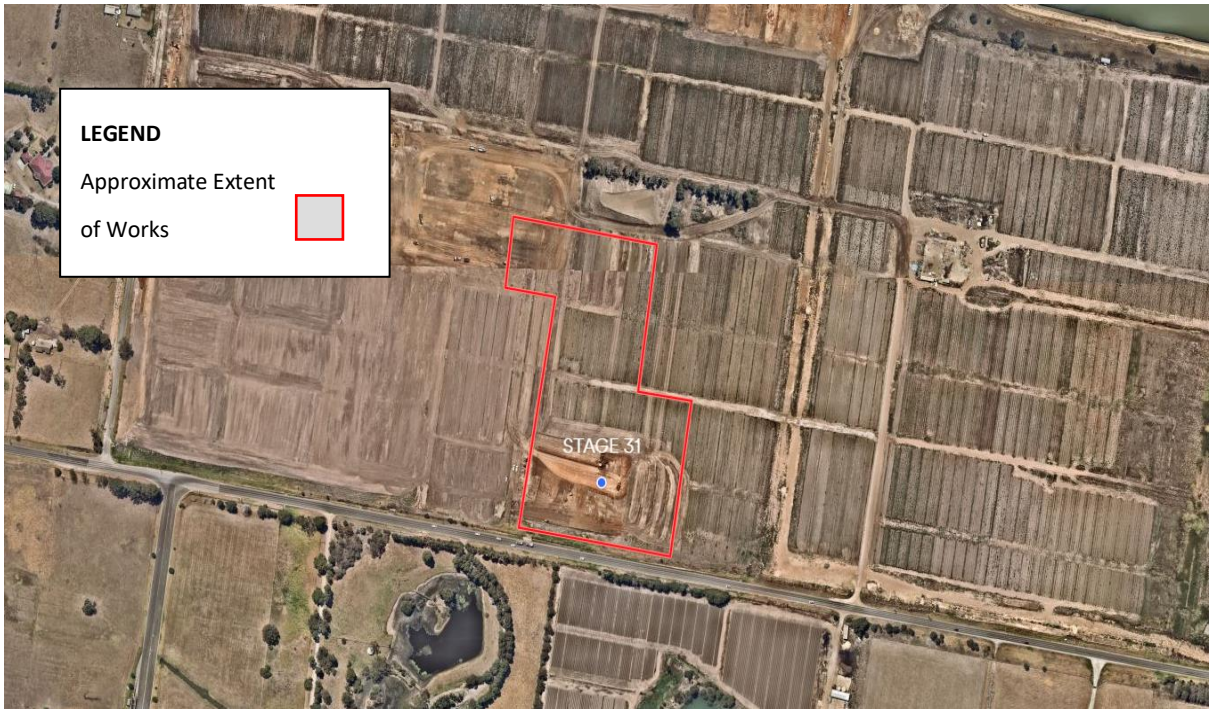
2 Project details

2.1 Location

Stage 31 is located to the East of Timberwolf Drive and South of Viridian Bld. Stages 30 and 39 are within the same proximity.

The included works are shown on the Site Plan in Appendix A and Figure 2.1 below is an extract from Nearmap.

Figure 2.1: Extract from Nearmap



2.2 Roles

The organisations and their roles are presented in Table 2.1

Table 2.1: Roles on the Project

Role	Organisation
Developer	Greenridge Properties Pty Ltd
Geotechnical Inspection and Testing Authority (GITA)	Chadwick Geotechnics Pty Ltd
Designer / Superintendent	Beveridge Williams Pty Ltd
Earthworks Contractor	Brown Property Group Pty Ltd

Chadwick Geotechnics undertook the field density testing, and the compaction control laboratory testing was conducted in our NATA accredited laboratories.

2.3 Dates on Site

Geotechnical technical and engineering staff from Chadwick Geotechnics were onsite for the duration of the earthworks program on the days shown in Table 2.2 below.

Table 2.2: Level 1 GITA – Onsite Presence

Month	Dates on site
March 2025	20, 25, 27,
April 2025	1, 3, 7, 8, 9. 10, 11, 17,
August 2025	2

2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within Riverfield Square Estate Stage 31, as shown on **Figure 2.1** and on the Site Plan in **Appendix A,** and with reference to Section 2.5 (Excluded Areas) of this report.

The following Lots were filled (or partially filled) during the Level 1 GITA supervision:

- Lots 3101 to 3125, 3133 and 3137

2.5 Excluded Areas

This report does not include fill outside the general boundary of the filled areas as shown in **Figure 2.1**. No fill was placed on the lots not mentioned in Section 2.4 of this report.

Backfill of trenches for the underground services, fill on footpaths, driveways and roads, or placement of topsoil, were not part of the scope for the works supervised by Chadwick Geotechnics.

3 Specifications

The works were to be conducted in general accordance with the 'Guidelines on earthworks for commercial and residential developments' of AS3798-2007.

The following items were adopted as part of the project earthworks specifications:

- All Filling, in excess, of 200mm depth within the residential lots shall be undertaken to specifications satisfying the requirements of AS3798-2007 "Guidelines on Earthworks for Commercial and Residential Development".
- The fill soils to comply with the 'Suitable Material' in accordance with Section 4.4 of the AS3798-2007, and the following:
    - Maximum particle size of 150mm.
    - Particles over 37.5mm diameter not to exceed 20% of the material.
- Organic soils, topsoil, silts, or soils containing organic matter, wood, plastics, metal, or other deleterious materials are not acceptable.
- Subgrade to be proof rolled prior to placement of an engineered fill.
- Fill to be compacted in near horizontal layers not exceeding 250mm loose thickness.
- Compaction to achieve a ratio of at least 95% Standard Maximum Dry Density (SMDD).
- Moisture content of the fill material is to be within ±3% of the soils Standard Optimum Moisture Content (SOMC).
- Frequency of testing to be in accordance with Table 8.1 of AS3798-2007.

4 Inspection and Testing

The inspection and testing of earthworks have been carried out in accordance with AS3798-2007, 'Guidelines on earthworks for commercial and residential developments', with a frequency of field density tests as per Table 8.1 (explained in Section 4.5 of this report). Compaction control laboratory testing was performed in a Chadwick Geotechnics NATA accredited laboratory in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes'.

4.1 Earthworks

The earthworks for the project comprised of the following phases:

- Stripping of topsoil from the proposed fill areas.
- Assessment, remediation, and proof rolling of subgrade.
- Geotechnical compliance testing of the soils used for fill.
- Placement and compaction of engineered fill.

4.2 Fill material

Material used for the construction of the fill comprised of local gravelly and silty clays won from the road boxing and trench excavations on this and the surrounding sites.

Samples taken from the site stockpiles (from Stage 30 and 31) comprising local material used for fill were taken for geotechnical compliance testing during the works. The material compliance test results are summarised in **Table 4.1 below.**

The laboratory test certificates are attached in **Appendix C.**

Table 4.1: Compliance test Result Summary

Sample #	Particle Size Distribution (PSD)						Liquid Limit %	Plastic Limit %	Plasticity Index %
	37.5 mm	13.2 mm	4.75 mm	1.18 mm	425 µm	0.75 µm			
S25DS-01118	100	100	96	92	87	67	45	21	24
S25DS-01257	100	98	93	90	85	59	42	16	26
S25DS-02614	100	99	95	78	57	22	26	12	14

The laboratory test results indicated the fill material is clayey sand of low plasticity and sandy clay of medium plasticity and satisfied the requirements of the Specification.

The material was deemed as being derived from natural soils. The soil is considered as 'Suitable Material' in accordance with Section 4.4 of the AS3798-2007.

The material imported and placed at the site by Brown Property Group was assessed by the Superintendent as being derived from natural soils and meeting the classification of 'Fill Material' as defined in EPA publication 1828.2-2021 "Waste disposal categories – characteristics and thresholds". Environmental testing of the material was not within Chadwick Geotechnics' scope.

Any observed organic or deleterious matter including any oversize cobbles or boulders were removed from the tested areas during the fill placement.

Photographs of typical materials used during construction are shown below.

Photograph 4.1: Photographs of the material used on site

Photograph 1: Typical clay material used on site

Photograph 2: Silty Clay used

4.3 Subgrade Assessment / Proof Roll

The Subgrade of the site was progressively assessed during the period Chadwick Geotechnics personnel were on site.

Subgrade assessments were conducted following the removal of natural grasses and topsoil that was present on site.

The subgrade inspection was performed in accordance with the Level 1 guidelines presented in AS3798–2007 Section 5.5. No soft spots or deflections were encountered during these inspections and the area was found to be firm and free of vegetation and other deleterious material.

Two photographs of the subgrade assessment phase at the project are shown below.

Photograph 4.2: Subgrade assessment photographs

Photograph 3: Subgrade assessed with loaded dump truck

Photograph 4: Subgrade assessment using loaded water cart

4.4 Engineered Fill Construction

All fill material was brought by dump trucks from the local stockpiles, spread with a bulldozer and compacted with a pad foot roller. A water cart was present onsite during the works for moisture conditioning of the materials.

All fill material was placed in lift sequences comprising horizontal layers. Chadwick Geotechnics verified that the surface of the stripped area, and that of additional lifts, was thoroughly scarified and moisture conditioned prior to placement of additional layers to prevent delamination at the layer interface. Once the placed fill was approved, the layer was compacted accordingly. Chadwick Geotechnics personnel were on site on a fulltime basis during the placement, moisture conditioning, compaction, and testing of the fill on the dates noted in Table 2.2 of this report.

The following machinery was on site during earthworks.

Table 4.2: Earthworks plant on site

Equipment type	Model
Dozer	CAT D6
Pad foot roller	BPG 15 T Pad Foot Roller
Water cart	Volvo 25 T
Dump Trucks	Volvo A256
Excavator	CAT 25 T

Photographs of typical machinery on site used during construction are shown below.

Photograph 4.3: General Earthwork machinery and fill construction photographs

Photograph 5: Excavator used during fill construction

Photograph 6: Pad foot and Dozer used during fill construction

Photograph 7: Water cart during fill construction

Photograph 8: Smooth drum roller used during fill

4.5 Density and Moisture testing

Field density and moisture content testing was undertaken progressively during the construction on the compacted fill using a calibrated portable density and moisture gauge in accordance with AS1289.5.8.1. The HILF rapid compaction test was used for peak converted wet density determinations in accordance with AS1289.5.7.1. Test locations were recorded using a handheld GPS unit. A site plan showing the field density test locations is provided in **Appendix A**.

Testing was undertaken under the frequencies listed below, subject to the area and volume worked on the day of testing:

- 1 test per material type per layer per 2500m² or 1 test per 500m³ distributed reasonably evenly or 3 tests per lot – whichever requires the most tests in accordance with Type 1 Earthworks (large scale operations) as defined in Table 8.1 of the AS3798-2007.

Thirty-two (32) tests were performed during the filling process. Eight (8) of the tests did not achieve the required density and or moisture ratio initially. The failed areas were reworked and retested accordingly. The retests returned passing density and moisture test results.

A summary table of HILF density tests is provided in **Appendix B** and the laboratory test reports are provided in **Appendix C**. Two photographs of field density testing conducted on site are shown below.

Photograph 4.4: Field Density/Moisture Testing photographs

Photo 9: Field density/moisture test

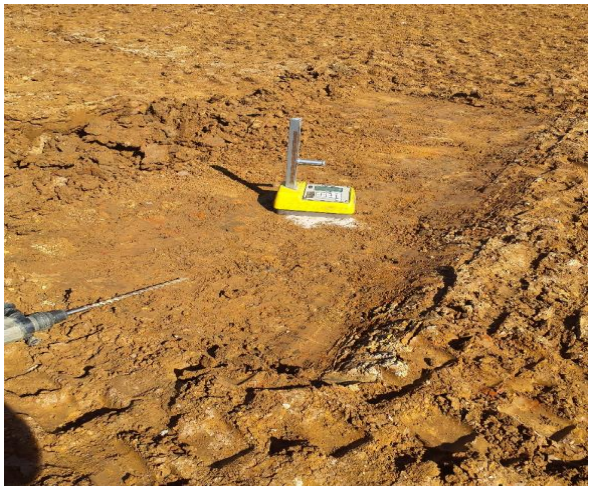


Photo 10: Field density/moisture test

5 Conclusion

On the basis, of our inspections and after considering all test results relating to the project, it is our opinion, so far as it is to be determined, that:

- The materials, used by the earth-works contractor met the geotechnical property requirements of the specification.
- The sourced fill was, considered to be natural, clean, and suitable for use at the site.
- The fill material placed was tested at a suitable frequency in accordance with AS3798-2007- Table 8.1 and the results indicate the compacted clay achieved the density requirement of the specification.
- Given the consistent construction practices followed by the earthworks contractor and as witnessed by the Chadwick Geotechnics, combined with the satisfactory verification of test results achieved, it is inferred that areas of the site between test locations were performed to the same standard as those areas that have been tested.
- Based on observations made by Chadwick Geotechnics Level 1 personal and the results of field and laboratory tests, we consider that the engineered fill within the site (noted in Section 2.5), as far as we have been able to reasonably determine, have been placed in general accordance with the intent of the specification.
- It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2 – Level 1 Inspection and Testing - AS3798-2007 Guidelines on Earthworks for Commercial and Residential Developments.
- Chadwick Geotechnics completed its Inspection and testing services on, 2 August 2025. After this date, the maintenance of the fill is the sole responsibility of the Contractor. If the fill is not well maintained or protected with a sacrificial layer of topsoil or other fill, the uppermost layers and the exposed faces of the engineered fill may deteriorate, as, a result of exposure to varying weather conditions which can cause cracking or heaving of the fill.
- Any deterioration will need to be remediated prior to further construction on the site. Chadwick Geotechnics has not provided supervision since the above date and is not responsible for any subsequent deterioration that may have occurred or may occur since that date.

6 Applicability

This report has been prepared for the exclusive use of our client Greenridge Properties Pty Ltd in good faith and in accordance with the Chadwick Geotechnics quality system for the earthworks filling at the site.

This report is based on the nature of the project and the prevailing conditions between 20 March 2025 and 2 August 2025. No responsibility or liability will be accepted, and Chadwick Geotechnics is indemnified to the full extent permitted by law in respect of the use of this report where there has been a change in the nature of the project or the conditions on site that may alter or affect the conclusions of this report.

Should you require any further information regarding this report, please do not hesitate to contact the undersigned on (03) 8796 7900.

Chadwick Geotechnics Pty Ltd

Report prepared by:

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Robert Barden

Project Manager

Authorised for Chadwick Geotechnics Pty Ltd by:

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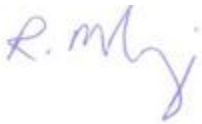
Michael DiMeglio

Project Director

Report reviewed by:



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Robert McKenzie

Principal Geotechnical Engineer

PE0005222

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Appendix A Test Location Plan

\\ttgroup.local\corporate\Dandenong\Geo Projects\1091938\WorkingMaterial\1091938.031 Riverfield Square Stage 31\CAD\FIG\1091938.031-F01.dwg 2025-Sep-10 3:30:06 pm Plotted By: MALCOLM MOFFETT

CHADWICK GEOTECHNICS
www.chadwickgeotechnics.com.au

NOTES:
1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 04/03/2025.

A3 SCALE 1:1000
0 5 10 15 20 30 40 50 (m)

ORIGINAL IN COLOUR

PROJECT No.	1091938.031	
DESIGNED	STPA	Aug.25
DRAWN	MAMO	Aug.25
CHECKED		
APPROVED		DATE

CLIENT **GREENRIDGE PROPERTIES PTY LTD**
PROJECT **RIVERFIELD ESTATE - STAGE 31**
TITLE LEVEL ONE HILF DENSITY TESTING
HILF DENSITY TEST LOCATION PLAN
SCALE (A3) 1:1000 FIG No. 1091938.031-F01 REV 1

Appendix B Hilf Density Test Summary

CHADWICK GEOTECHNICS

Riverfield Square Estate, 1091938.031 Stage 31

HILF Density Testing - Field Summary

Chadwick Geotechnics
25 Metcalf Street
Dandenong South VIC 3175
Tel : (03) 8796 7900
Fax: (03) 9706 9431

Think Act Be Safe

Report No	Sample No	Date	Test Number	Lot No	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W25DS00527	S25DS-01945	20/03/2025	1	3102 / 3	355219	5778016	19.316	99.5	2.5 dry	Pass	
HDR:W25DS00551	S25DS-02052	25/03/2025	1	3101 / 4	355231	5778009	19.401	100.5	0 dry	Pass	
HDR:W25DS00580	S25DS-02133	27/03/2025	1	3103 / 3	355222	5778056	19.72	98.5	0 wet	Pass	
HDR:W25DS00628	S25DS-02349	1/04/2025	1	3104 / Final	355239	5778053	19.922	100.5	0.5 dry	Pass	
HDR:W25DS00660	S25DS-02524	3/04/2025	1	2105 / 1	355288	5778046	20.2	97.5	2 dry	Pass	
HDR:W25DS00684	S25DS-02611	7/04/2025	1	3109 / 2	355281	5778003	19.666	97	2.5 dry	Pass	
HDR:W25DS00684	S25DS-02612	7/04/2025	2	3117 / 1	355262	5777898	16.142	100	0 wet	Pass	
HDR:W25DS00697	S25DS-02642	8/04/2025	1	2112 / 3	355271	5777958	18.681	98	0 dry	Pass	
HDR:W25DS00697	S25DS-02643	8/04/2025	2	3111 / 3	355274	5777976	19.183	97.5	0 dry	Pass	
HDR:W25DS00697	S25DS-02644	8/04/2025	3	3110 / 3	355276	5777988	19.566	100.5	0 dry	Pass	
HDR:W25DS00697	S25DS-02645	8/04/2025	4	3108 / 3	355280	5778013	20.146	95.5	2 dry	Pass	
HDR:W25DS00697	S25DS-02646	8/04/2025	5	3107 / 3	355281	5778027	20.345	100.5	0.5 wet	Pass	
HDR:W25DS00697	S25DS-02647	8/04/2025	6	3106 / 3	355284	5778039	20.486	99.5	0 dry	Pass	
HDR:W25DS00714	S25DS-02697	9/04/2025	1	3137 / 1	355313	5777863	16.554	99	4.5 dry	Fail	See Retest S25DS-06664
HDR:W25DS00722	S25DS-02716	10/04/2025	1	3114 / 1	355257	5777935	17.957	100.5	0.5 dry	Pass	
HDR:W25DS00722	S25DS-02717	10/04/2025	2	3115 / 1	355263	5777919	17.473	101	2.5 dry	Pass	
HDR:W25DS00722	S25DS-02718	10/04/2025	3	3116 / 1	355262	5777909	17.121	98	4.5 dry	Fail	See Retest S25DS-03037
HDR:W25DS00722	S25DS-02719	10/04/2025	4	3117 / 1	355259	5777900	16.858	99.5	4.5 dry	Fail	See Retest S25DS-03039

CHADWICK GEOTECHNICS

Riverfield Square Estate, 1091938.031 Stage 31

HILF Density Testing - Field Summary

Chadwick Geotechnics
25 Metcalf Street
Dandenong South VIC 3175
Tel : (03) 8796 7900
Fax: (03) 9706 9431

Think Act Be Safe

Report No	Sample No	Date	Test Number	Lot No	Easting	Northing	Layer/RL	Density Ratio (≥95 %)	Moisture Variation	Pass / Fail	Comments (Retest No) Compliance test taken ect
HDR:W25DS00722	S25DS-02720	10/04/2025	5	3118 / 1	355253	5777882	16.342	99	3 dry	Pass	
HDR:W25DS00722	S25DS-02721	10/04/2025	6	3119 / 1	355262	5777880	16.35	97.5	3 dry	Pass	
HDR:W25DS00743	S25DS-02794	11/04/2025	1	3130-3121 / 1	355274	5777881	16.29	101.5	3 dry	Pass	
HDR:W25DS00743	S25DS-02795	11/04/2025	2	3122-3123 / 1	355283	5777899	16.849	98.5	2 dry	Pass	
HDR:W25DS00743	S25DS-02796	11/04/2025	3	3124 / -	355285	5777921	17.458	97	5 dry	Fail	See Retest S25DS-03038
HDR:W25DS00743	S25DS-02797	11/04/2025	4	3132 / -	355318	5777912		97	4.5 dry	Fail	See Retest S25DS-03040
HDR:W25DS00805	S25DS-03037	17/04/2025	1	3116 / 1	355266	5777906	16.93	96	2.5 dry	Pass	Retest of S25DS-02718
HDR:W25DS00805	S25DS-03038	17/04/2025	2	3124 / 1	355279	5777914	17.433	91.5	0.5 dry	Fail	Retest of S25DS-02796, see Retest 6661
HDR:W25DS00805	S25DS-03039	17/04/2025	3	3117 / 1	355266	5777916	17.383	94	1 dry	Fail	Retest of S25DS-02719, See Retest 6662
HDR:W25DS00805	S25DS-03040	17/04/2025	4	3132 / 1	355318	5777912		93.5	1 dry	Fail	Retest of S25DS-02797, See Retest 6663
HDR:W25DS01679	S25DS-06661	2/08/2025	1	3124 / -	355284	5777917		96	0.5 dry	Pass	Retest of S25DS-03038
HDR:W25DS01679	S25DS-06662	2/08/2025	2	3117 / -	355266	5777913		96.5	0.5 dry	Pass	Retest of S25DS-03039
HDR:W25DS01679	S25DS-06663	2/08/2025	3	3132 / -	355315	5777924		97.5	0 dry	Pass	Retest of S25DS-03040
HDR:W25DS01679	S25DS-06664	2/08/2025	4	3137 / -	355311	5777865		99.5	0.5 dry	Pass	Retest of S25DS-02697

Appendix C NATA endorsed reports

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
25 Metcalf Street
DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W25DS00527
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 12/08/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Onsite
Material:	Clay

Sample Data

Sample ID	S25DS-01945		
Field Sample ID	1		
Date Tested	20/03/2025		
Time Tested	09:15		
E:	355219		
N:	5778016		
EL:	19.316		
Lot / Layer:	3102 / 3		

Field and Laboratory Data

Depth of Test (mm)	175		
Depth of Layer (mm)	200		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Field Moisture Content (%)	14.9		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.00		
Field Dry Density (t/m³)	1.74		
Peak Converted Wet Density (t/m³)	2.00		
Optimum Moisture Content (%)	17.5		
Compactive Effort	Standard		
Moisture Ratio (%)	85.0		
Moisture Variation (%)	2.5 dry		
Hilf Density Ratio (%)	**99.5**		

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
25 Metcalf Street
DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W25DS00551
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 2/04/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Imported
Material:	Clay

Sample Data

Sample ID	S25DS-02052		
Field Sample ID	1		
Date Tested	25/03/2025		
Time Tested	15:00		
E:	355231		
N:	5778009		
EL:	19.401		
Lot / Layer:	3101 / 4		

Field and Laboratory Data

Depth of Test (mm)	175		
Depth of Layer (mm)	200		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Field Moisture Content (%)	23.3		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	2.04		
Field Dry Density (t/m³)	1.65		
Peak Converted Wet Density (t/m³)	2.03		
Optimum Moisture Content (%)	23.5		
Compactive Effort	Standard		
Moisture Ratio (%)	99.0		
Moisture Variation (%)	0.0		
Hilf Density Ratio (%)	**100.5**		

Comments

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
25 Metcalf Street
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Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W25DS00580
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 2/04/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Imported
Material:	Clay

Sample Data

Sample ID	S25DS-02133		
Field Sample ID	1		
Date Tested	27/03/2025		
Time Tested	10:00		
E:	355222		
N:	5778056		
EL:	19.720		
Lot / Layer:	3103 / 3		

Field and Laboratory Data

Depth of Test (mm)	175		
Depth of Layer (mm)	200		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Field Moisture Content (%)	24.6		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.98		
Field Dry Density (t/m³)	1.58		
Peak Converted Wet Density (t/m³)	2.00		
Optimum Moisture Content (%)	24.5		
Compactive Effort	Standard		
Moisture Ratio (%)	101.0		
Moisture Variation (%)	0.0		
Hilf Density Ratio (%)	**98.5**		

Comments

CHADWICK GEOTECHNICS

Dandenong South
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25 Metcalf Street
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Report No: HDR:W25DS00628
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 27/04/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Import
Material:	Clay

Sample Data

Sample ID	S25DS-02349		
Field Sample ID	1		
Date Tested	1/04/2025		
Time Tested	13:45		
E:	355239		
N:	5778053		
EL:	19.922		
Lot / Layer:	3104 / FSL		

Field and Laboratory Data

Depth of Test (mm)	175		
Depth of Layer (mm)	200		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Field Moisture Content (%)	20.9		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.96		
Field Dry Density (t/m³)	1.62		
Peak Converted Wet Density (t/m³)	1.95		
Optimum Moisture Content (%)	21.0		
Compactive Effort	Standard		
Moisture Ratio (%)	98.5		
Moisture Variation (%)	0.5 dry		
Hilf Density Ratio (%)	**100.5**		

Comments

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS00660
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont (Discipline Manager - CMT)
Date of Issue: 16/04/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Onsite
Material:	Clay

Sample Data

Sample ID	S25DS-02524					
Field Sample ID	1					
Date Tested	3/04/2025					
Time Tested	09:20					
E:	355288					
N:	5778046					
EL:	20.200					
Lot / Layer:	2105 / 1					

Field and Laboratory Data

Depth of Test (mm)	175					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	0					
Field Moisture Content (%)	21.6					
Field Moisture Content Method	AS 1289.2.1.1					
Field Wet Density (t/m³)	1.84					
Field Dry Density (t/m³)	1.51					
Peak Converted Wet Density (t/m³)	1.88					
Optimum Moisture Content (%)	23.5					
Compactive Effort	Standard					
Moisture Ratio (%)	92.5					
Moisture Variation (%)	2.0 dry					
Hilf Density Ratio (%)	**97.5**					

Comments

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Report No: HDR:W25DS00684
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 27/04/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Imported
Material:	Clay

Sample Data

Sample ID	S25DS-02611	S25DS-02612	
Field Sample ID	1	2	
Date Tested	7/04/2025	7/04/2025	
Time Tested	11:45	13:00	
E:	355281	355262	
N:	5778003	5777898	
EL:	19.666	16.142	
Lot / Layer:	3109 / 2	3117 / 1	

Field and Laboratory Data

Depth of Test (mm)	175	175	
Depth of Layer (mm)	200	200	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	4	0	
Field Moisture Content (%)	8.5	21.5	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.05	2.03	
Field Dry Density (t/m³)	1.89	1.67	
Peak Converted Wet Density (t/m³)	2.12	2.03	
Optimum Moisture Content (%)	11.0	21.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	78.0	100.5	
Moisture Variation (%)	2.5 dry	0.0	
Hilf Density Ratio (%)	**97.0**	**100.0**	

Comments

CHADWICK GEOTECHNICS

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DANDENONG SOUTH, VIC 3175

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Report No: HDR:W25DS00697
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 28/07/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Imported
Material:	Clay

Sample Data

Sample ID	S25DS-02642	S25DS-02643	S25DS-02644	S25DS-02645	S25DS-02646	S25DS-02647
Field Sample ID	1	2	3	4	5	6
Date Tested	8/04/2025	8/04/2025	8/04/2025	8/04/2025	8/04/2025	8/04/2025
Time Tested	14:00	14:15	14:30	14:45	15:00	15:15
E:	355271	355274	355276	355280	355281	355284
N:	5777958	5777976	5777988	5778013	5778027	5778039
EL:	18.681	19.183	19.566	20.146	20.345	20.486
Lot / Layer:	3112 / 3	3111 / 3	3110 / 3	3108 / 3	3107 / 3	3106 / 3
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	5	0	0
Field Moisture Content (%)	23.2	20.4	22.1	9.7	23.5	22.3
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.98	1.96	2.00	2.03	2.00	2.01
Field Dry Density (t/m³)	1.60	1.63	1.64	1.85	1.62	1.64
Peak Converted Wet Density (t/m³)	2.01	2.01	1.99	2.12	1.99	2.02
Optimum Moisture Content (%)	23.5	20.5	22.5	12.0	23.0	22.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	99.0	99.0	99.0	80.5	102.5	99.5
Moisture Variation (%)	0.0	0.0	0.0	2.0 dry	0.5 wet	0.0
Hilf Density Ratio (%)	**98.0**	**97.5**	**100.5**	**95.5**	**100.5**	**99.5**

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS00714
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 28/04/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Onsite
Material:	Clay

Sample Data

Sample ID	S25DS-02697		
Field Sample ID	1		
Date Tested	9/04/2025		
Time Tested	14:15		
E:	355313		
N:	5777863		
EL:	16.554		
Lot / Layer:	3137 / 1		

Field and Laboratory Data

Depth of Test (mm)	175		
Depth of Layer (mm)	200		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Field Moisture Content (%)	19.3		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.82		
Field Dry Density (t/m³)	1.52		
Peak Converted Wet Density (t/m³)	1.84		
Optimum Moisture Content (%)	23.5		
Compactive Effort	Standard		
Moisture Ratio (%)	81.5		
Moisture Variation (%)	4.5 dry		
Hilf Density Ratio (%)	**99.0**		

Comments

CHADWICK GEOTECHNICS

Think Act Safe Be

Dandenong South
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Report No: HDR:W25DS00722
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 28/07/2025

Sample Details

Location:	Clyde
Client Request ID:	
Specification Requirements:	Minimum Hilf Density Ratio of 95%
Field Test procedures:	AS 1289.5.8.1
Laboratory Test procedures:	AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method:	AS1289.1.2.1 Clause 6.4 (b)
Source:	Onsite
Material:	Clay

Sample Data

Sample ID	S25DS-02716	S25DS-02717	S25DS-02718	S25DS-02719	S25DS-02720	S25DS-02721
Field Sample ID	1	2	3	4	5	6
Date Tested	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025
Time Tested	15:00	15:10	15:20	15:30	15:40	15:40
E:	355257	355263	355262	355259	355253	355262
N:	5777935	5777919	5777909	5777900	5777882	5777880
EL:	17.957	17.473	17.121	16.858	16.342	16.350
Lot / Layer:	3114 / 1	3115 / 1	3116 / 1	3117 / 1	3118 / 1	3119 / 1
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0
Field Moisture Content (%)	19.8	20.3	16.0	20.4	19.9	21.6
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.03	1.93	1.87	1.85	1.96	1.85
Field Dry Density (t/m³)	1.69	1.61	1.61	1.53	1.64	1.52
Peak Converted Wet Density (t/m³)	2.02	1.91	1.91	1.86	1.98	1.89
Optimum Moisture Content (%)	20.0	23.0	20.5	25.5	23.0	25.0
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	97.5	88.0	78.0	80.5	87.0	86.5
Moisture Variation (%)	0.5 dry	2.5 dry	4.5 dry	4.5 dry	3.0 dry	3.0 dry
Hilf Density Ratio (%)	**100.5**	**101.0**	**98.0**	**99.5**	**99.0**	**97.5**

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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Report No: HDR:W25DS00743
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 21/08/2025

Sample Details

Location: Clyde
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: Clay

Sample Data

Sample ID	S25DS-02794	S25DS-02795	S25DS-02796	S25DS-02797
Field Sample ID	1	2	3	4
Date Tested	11/04/2025	11/04/2025	11/04/2025	11/04/2025
Time Tested	14:00	14:15	14:30	14:45
E:	355274	355283	355285	355318
N:	5777881	5777899	5777921	5777912
EL:	16.290	16.849	17.458	-
Lot / Layer:	3130-3121 / 1	3122-3123 / 1	3124 / -	3132 / -

Field and Laboratory Data

Depth of Test (mm)	175	175	175	175
Depth of Layer (mm)	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0
Field Moisture Content (%)	22.1	24.4	18.0	19.9
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.90	1.86	1.80	1.81
Field Dry Density (t/m³)	1.56	1.49	1.53	1.51
Peak Converted Wet Density (t/m³)	1.88	1.89	1.86	1.86
Optimum Moisture Content (%)	25.5	26.5	23.5	25.0
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	87.5	92.0	77.0	80.5
Moisture Variation (%)	3.0 dry	2.0 dry	5.0 dry	4.5 dry
Hilf Density Ratio (%)	**101.5**	**98.5**	**97.0**	**97.0**

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
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DANDENONG SOUTH, VIC 3175

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Report No: HDR:W25DS00805
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: J. Lamont
(Base Laboratory Manager -
Date of Issue: 21/08/2025

Sample Details

Location: Clyde
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: Clay

Sample Data

Sample ID	S25DS-03037	S25DS-03038	S25DS-03039	S25DS-03040
Field Sample ID	1	2	3	4
Date Tested	17/04/2025	17/04/2025	17/04/2025	17/04/2025
Time Tested	11:00	11:15	11:30	11:45
E:	355266	355279	355266	355318
N:	5777906	577914	5777916	5777912
EL:	16.934	17.433	17.383	-
Lot / Layer:	3117 / 1	3124 / 1	3117 / 1	3132 / 1
	Retest of S25DS-02718	Retest of S25DS-02796	Retest of S25DS-02719	Retest of S25DS-02797
Field and Laboratory Data				
Depth of Test (mm)	175	175	175	175
Depth of Layer (mm)	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0
Field Moisture Content (%)	21.5	24.7	22.5	22.8
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	1.83	1.83	1.82	1.81
Field Dry Density (t/m³)	1.50	1.46	1.48	1.48
Peak Converted Wet Density (t/m³)	1.90	1.99	1.93	1.94
Optimum Moisture Content (%)	24.0	25.0	23.0	23.5
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Ratio (%)	89.0	99.0	96.5	96.5
Moisture Variation (%)	2.5 dry	0.5 dry	1.0 dry	1.0 dry
Hilf Density Ratio (%)	**96.0**	**91.5**	**94.0**	**93.5**

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
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Report No: HDR:W25DS01679
Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: M. Di Meglio
(Practice Lead - Technical Services)
Date of Issue: 14/08/2025

Sample Details

Location: Clyde
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95%
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.2.1.1, AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: Clay

Sample Data

Sample ID	S25DS-06661	S25DS-06662	S25DS-06663	S25DS-06664		
Field Sample ID	1	2	3	4		
Date Tested	2/08/2025	2/08/2025	2/08/2025	2/08/2025		
Time Tested	09:40	09:55	10:20	10:30		
E:	355284	355266	35531	355311		
N:	5777917	5777913	5777924	5777865		
EL:	-	-	-	-		
Lot / Layer:	3124 / -	3117 / -	3132 / -	3137 / -		
	Retest of S25DS-03038	Retest of S25DS-03039	Retest of S25DS-03040	Retest of S25DS-02697		
Field and Laboratory Data						
Depth of Test (mm)	175	175	175	175		
Depth of Layer (mm)	200	200	200	200		
AS Sieve Size (mm)	19.0	19.0	19.0	19.0		
Oversize Wet (%)	0	0	0	0		
Field Moisture Content (%)	21.8	20.8	24.0	22.5		
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.93	1.99	1.93	1.99		
Field Dry Density (t/m³)	1.58	1.64	1.55	1.63		
Peak Converted Wet Density (t/m³)	2.01	2.06	1.98	2.01		
Optimum Moisture Content (%)	22.5	21.0	24.0	23.0		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Ratio (%)	97.5	98.5	99.5	97.5		
Moisture Variation (%)	0.5 dry	0.5 dry	0.0	0.5 dry		
Hilf Density Ratio (%)	**96.0**	**96.5**	**97.5**	**99.5**		

Comments

Results relate only to the items tested/sampled.

CHADWICK GEOTECHNICS

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ACN 143 009 330
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Ph: + 61 3 8796 7900
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Report No: MAT:S25DS-01118/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 30
Project No.: 1091938.030
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 24/03/2025

Sample Details

Location	Clyde
Sample Location	E: 355123, N: 5778058, EL: 18.644, Lot: 3022
Field Sample ID	1
Date Sampled	25/02/2025
Time Sampled	13:10
Source	Onsite
Material	Clay
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S25DS-01118

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	19.7	
Date Tested		26/02/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	10.5	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		Yes	
Liquid Limit (%)	AS 1289.3.1.2	45	
Plastic Limit (%)	AS 1289.3.2.1	21	
Plasticity Index (%)	AS 1289.3.3.1	24	
Date Tested		6/03/2025	

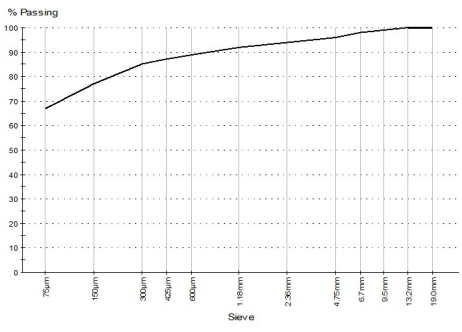
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 27/02/2025

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	100	
9.5mm	99	
6.7mm	98	
4.75mm	96	
2.36mm	94	
1.18mm	92	
600µm	89	
425µm	87	
300µm	85	
150µm	77	
75µm	67	

Chart



Comments

N/A

CHADWICK GEOTECHNICS

Dandenong South
ACN 143 009 330
25 Metcalf Street
DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
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Report No: MAT:S25DS-01257/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 30
Project No.: 1091938.030
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 24/03/2025

Sample Details

Location	Clyde
Sample Location	E: 355131, N: 5778020, EL: 18.815, Lot: 3009, Layer: 1
Field Sample ID	1
Date Sampled	27/02/2025
Time Sampled	12:10
Source	Onsite
Material	Clay
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S25DS-01257

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	16.0	
Date Tested		28/02/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	9.0	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	42	
Plastic Limit (%)	AS 1289.3.2.1	16	
Plasticity Index (%)	AS 1289.3.3.1	26	
Date Tested		6/03/2025	

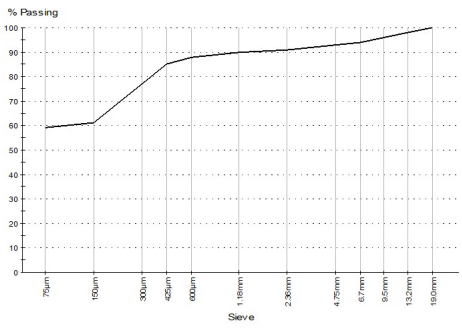
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 4/03/2025

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	98	
9.5mm	96	
6.7mm	94	
4.75mm	93	
2.36mm	91	
1.18mm	90	
600µm	88	
425µm	85	
300µm	77	
150µm	61	
75µm	59	

Chart



Comments

N/A

CHADWICK GEOTECHNICS

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DANDENONG SOUTH, VIC 3175

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Report No: MAT:S25DS-02614/1
Issue No: 1

Material Test Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Riverfield Square Estate, Stage 31
Project No.: 1091938.031
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: 12719
Site Number: 12712
Approved Signatory: Krushik Patel (Senior Geotechnician)
Date of Issue: 28/04/2025

Sample Details

Location	Clyde
Sample Location	E: 355281, N: 5778003, EL: 19.666, Lot: 3109 / Layer: 2
Field Sample ID	1
Date Sampled	7/04/2025
Time Sampled	11:45
Source	Imported
Material	Clay
Specification	AS Grading
Sampling Method	AS1289.1.2.1 Clause 6.4 (b)
Sample ID	S25DS-02614

Other Test Results

Description	Method	Result	Limits
Moisture Content (%)	AS 1289.2.1.1	8.1	
Date Tested		8/04/2025	
Sample History	AS 1289.1.1	Oven-Dried	
Preparation	AS 1289.1.1	Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1	5.0	
Mould Length (mm)		250	
Crumbling		No	
Curling		No	
Cracking		No	
Liquid Limit (%)	AS 1289.3.1.2	26	
Plastic Limit (%)	AS 1289.3.2.1	12	
Plasticity Index (%)	AS 1289.3.3.1	14	
Date Tested		23/04/2025	

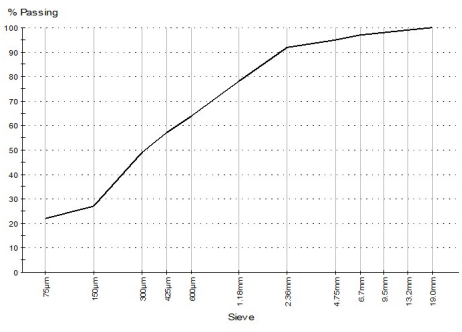
Particle Size Distribution

Method: AS 1289.3.6.1
Drying By: Oven
Date Tested: 11/04/2025

Note: Sample Washed

Sieve Size	% Passing	Limits
19.0mm	100	
13.2mm	99	
9.5mm	98	
6.7mm	97	
4.75mm	95	
2.36mm	92	
1.18mm	78	
600µm	64	
425µm	57	
300µm	49	
150µm	27	
75µm	22	

Chart



Comments

N/A

Appendix D Controlled Fill Certificate

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Riverfield Square Estate Stage 31
Lots 3101 to 3125, 3133 and 3137

Chadwick Geotechnics REF:
1091938.031.R1.v1

CLIENT : Greenridge Properties Pty Ltd
P.O Box 4136
Dandenong South Victoria, 3164

DATE: September 2025

SUMMARY

Chadwick Geotechnics Pty Ltd conducted, Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments,* during the filling of the site.

So far as can be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding topsoil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (20 March 2025 and was completed on 2 August 2025). No responsibility or liability will be accepted, `and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Project Manager

Michael DiMeglio
Project Director

CHADWICK
GEOTECHNICS