

# REPORT

# Level 1 Geotechnical Inspection and Testing Authority Services

Riverfield Square Estate Stage 25 Lots 2501 to 2529

Prepared for: Greenridge Properties Pty Ltd

11 April 2025

Our Ref: 1091938.025.R1.v1

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Job No: 1091938.025.R1.v1

#### **Document Control**

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

## 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 25 of the Riverfield Square Estate in Clyde North between 28 June 2024 and 11 January 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 25 is located to the East of Tuckers Road and North of Ballarto Rd. Stages 22 and 23 are west of stage 25.

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
June 2024	28
July 2024	3, 5, 24, 31
August 2024	1, 2
November 2024	1, 28, 29
December 2024	2, 3, 12, 13, 16, 17, 18, 19, 20
January 2025	8, 9, 10, 11

#### 2.4 Included Areas

This report is applicable to material placed by the contractor on the residential lots within Riverfield Square Estate Stage 25, 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 2501 to 2529

#### 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 AS 3798-2007.

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 AS 3798-2007 "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.
  - $\circ$   $\;$  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 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.** 

Sample #		Particle	Size Dis	stributio	Liquid	Plastic	Plasticity		
	37.5	13.2	4.75	1.18	425	0.75	Limit %	Limit %	Index %
	mm	mm	mm	mm	μm	μm			
S24DS-05053	100	100	97	94	88	52	42	13	29
S24DS-09406	100	99	98	97	90	44	32	14	18
S25DS-0011/1	100	95	91	88	82	43	43	18	25

# Table 4.1: Compliance test Result Summary

The laboratory test results indicated material is 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 AS 3798–2007 Section 5.5. No soft spots or deflections were encountered during the 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 dump truck

Photograph 4: Subgrade assessment using loaded dump truck

### 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: Dozer used during fill construction



Photograph 6: Water cart used during fill construction



Photograph 7: Compactor used during fill construction



Photograph 8: Moxy trucks used during fill construction

## 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 AS 1289.5.8.1. The HILF rapid compaction test was used for peak converted wet density determinations in accordance with AS 1289.5.7.1. 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 2500m<sup>2</sup> or 1 test per 500m<sup>3</sup> 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 AS 3798-2007;

Forty Five (45) tests were performed during the filling process. Four (4) 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 AS 3798-2007-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, 29 October 2024. 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 28 June 2024 and 11 January 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:

Authorised for Chadwick Geotechnics Pty Ltd by:

et Bowles

Robert Barden Project Manager

Report reviewed by:

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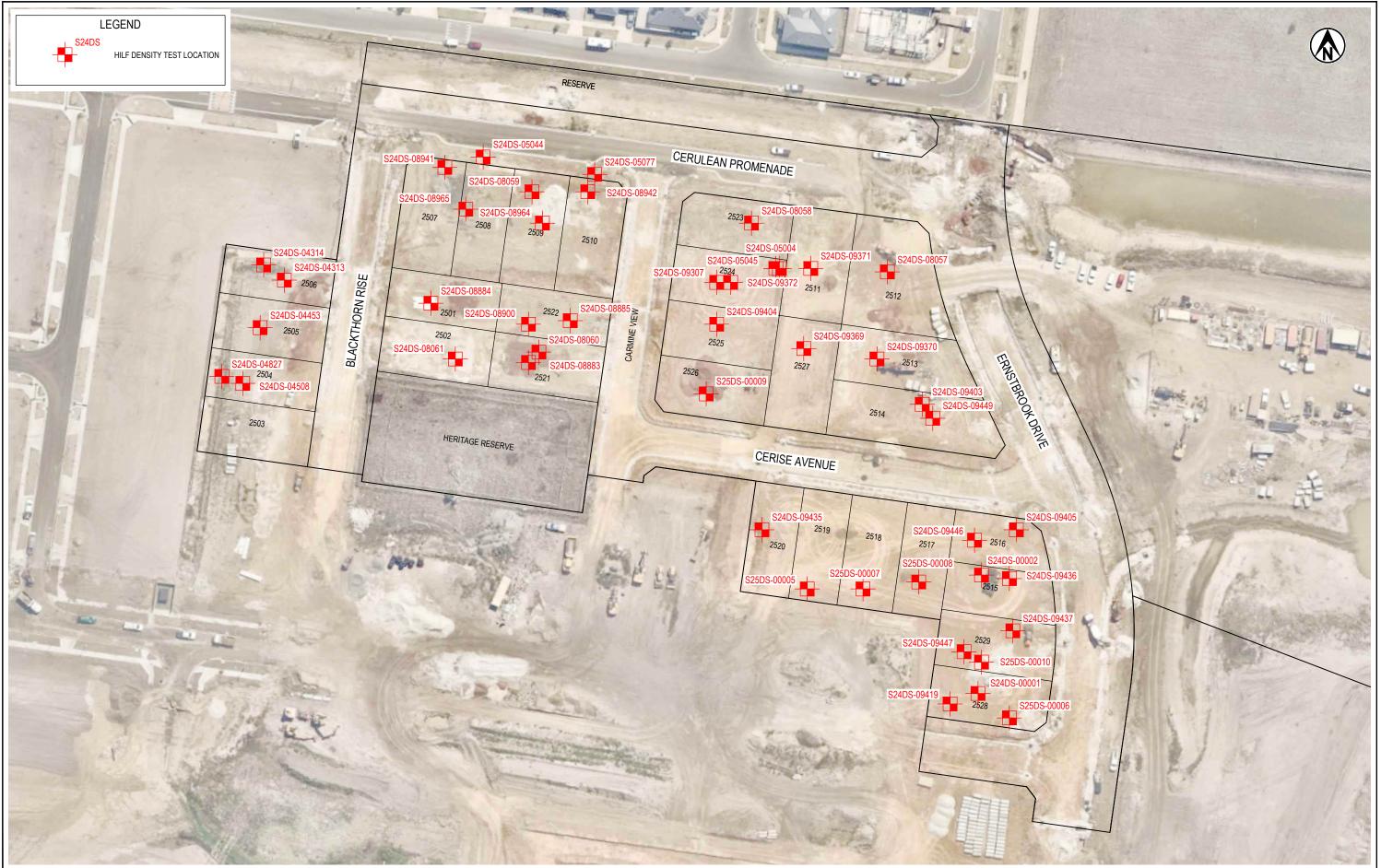
Michael DiMeglio Project Director

Robert McKenzie Principal Geotechnical Engineer PE0005222

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rial/1091938.025 Riverfield Square Stage 25/CAD/FIG/1091938.025-F01.dwg\_2025-Apr-10\_2;32;40 PM\_Plotted By; KATHRYN JACKSOI





	NOTES:		PROJECT No.	1091938.025	CLIENT GREE
	1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 04/03/2025.		DESIGNED	RHB Apr.25	PROJECT RIVER
-			DRAWN	KMJA Apr.25	
S			CHECKED	RHB Apr.25	
-	A3 SCALE 1:1000 05 10 15 20 30 40 50 (m)		R. BARDEN	10.04.2025	HILF C
au		ORIGINAL IN COLOUR			SCALE (A3) 1.1000

#### **CLIENT GREENRIDGE PROPERTIES PTY LTD** RFIELD SQUARE ESTATE IN CLYDE

EL ONE HILF DENSITY TESTING DENSITY TEST LOCATION PLAN

(A3) 1:1000 FIG No. 1091938.025-F01 REV 1

			Riverfield Square Estate, 1091938.025 Stage 25								Chadwick Geotechnics 25 Metcalf Street Dandenong South VIC 3175 Tel : ( 03 ) 8796 7900 Fax: ( 03 ) 9706 9431	
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:W24DS01031	S24DS-04313	28/06/2024	1	2506 / 5	355353	5778546	19.45	99	0.5 wet	Pass		
HDR:W24DS01031	S24DS-04314	28/06/2024	2	2506 / 6	355347	5778550	19.526	101.5	0 wet	Pass		
HDR:W24DS01061	S24DS-04453	3/07/2024	1	2505 / 1	355346	5778532	19.457	95	1 wet	Pass		
HDR:W24DS01079	S24DS-04508	5/07/2024	1	2504 / 2	355341	5778516	19.884	97.5	0.5 wet	Pass		
HDR:W24DS01161	S24DS-04827	24/07/2024	1	2504	355335	5778518	20.327	97.5	3.0 Wet	Pass		
DDR:W24DS01201	S24DS-05004	31/07/2024	1	2511	355495	5778549	17.194	93.5	3.5 Wet	Fail	See Retest S24DS-05045	
HDR:W24DS01209	S24DS-05044	1/08/2024	1	2508 / 1	355410	5778581	17.546	101	3 wet	Pass		
HDR:W24DS01209	S24DS-05045	1/08/2024	2	2511-2523 / 1	355494	5778549	17.277	98.5	3 wet	Pass	Retest of S24DS-05004	
HDR:W24DS01220	S24DS-05077	2/08/2024	1	2510/2	355442	5778576	17.98	98.5	2 wet	Pass		
HDR:W24DS01945	S24DS-08057	1/11/2024	1	2512 / -	355526	5778548	17.01	102	0.5 dry	Pass		
HDR:W24DS01945	S24DS-08058	1/11/2024	2	2523 / -	355487	5778562	17.539	99.5	0.5 dry	Pass		
HDR:W24DS01945	S24DS-08059	1/11/2024	3	2509 / -	355424	5778571	18.223	101.5	0 dry	Pass		
HDR:W24DS01945	S24DS-08060	1/11/2024	4	2521/-	355426	5778525	20.486	94.5	0 dry	Fail	See Retest S24DS-08883	
HDR:W24DS01945	S24DS-08061	1/11/2024	5	2502 / -	355402	5778523	20.771	102	0 dry	Pass		
HDR:W24DS02157	S24DS-08883	28/11/2024	1	2521/-	355423	5778522	20.439	99.5	3 wet	Pass	Retest of S24DS-08060	
HDR:W24DS02157	S24DS-08884	28/11/2024	2	2501/-	355395	5778539	19.986	99	0.5 wet	Pass		
HDR:W24DS02157	S24DS-08885	28/11/2024	3	2522 / -	355435	5778534	20.081	99.5	2.5 dry	Pass		
HDR:W24DS02161	S24DS-08900	29/11/2024	1	2522 / -	355423	5778533	20.525	99.5	2.5 dry	Pass		
HDR:W24DS02175	S24DS-08941	2/12/2024	1	2507	355399	5778578	18.575	96.5	омс	Pass		
HDR:W24DS02175	S24DS-08942	2/12/2024	2	2510	355440	5778571	18.254	100	0.5 Wet	Pass		
HDR:W24DS02180	S24DS-08964	3/12/2024	1	2509	355427	5778562	18.80	101	2.5 Dry	Pass		
HDR:W24DS02180	S24DS-08965	3/12/2024	2	2508	355406	5778566	18.073	99.5	2.5 Dry	Pass		
HDR:W24DS02251	S24DS-09307	12/12/2024	1	2524	355477	5778545	18.531	107	4 dry	Fail	See Retest S24DS-09372	

										Chadwick Geotechnics 25 Metcalf Street Dandenong South VIC 3175	
											Tel : ( 03 ) 8796 7900 Fax: ( 03 ) 9706 9431
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:W24DS02265	S24DS-09369	13/12/2024	1	2527 / 2	355502	5778526	-	102	2 dry	Pass	
HDR:W24DS02265	S24DS-09370	13/12/2024	2	2513 / -	355523	5778523	-	104	2.5 dry	Pass	
HDR:W24DS02265	S24DS-09371	13/12/2024	3	2511/-	355504	5778549	-	98	2.5 dry	Pass	
HDR:W24DS02265	S24DS-09372	13/12/2024	4	-	355481	5778545	-	104.5	2.5 dry	Pass	Retest of S24DS-09307
HDR:W24DS02272	S24DS-09403	16/12/2024	1	2514 / -	355536	5778510	17.882	105	4.5 dry	Fail	See Retest S24DS-09449
HDR:W24DS02272	S24DS-09404	16/12/2024	2	2525 / -	355477	5778533	19.076	97.5	1 wet	Pass	
HDR:W24DS02272	S24DS-09405	16/12/2024	3	2516 / 1	355563	5778474	16.684	108	3 dry	Pass	Possible oversize
HDR:W24DS02280	S24DS-09419	17/12/2024	4	2528 / 1.267 to FSL	355544	5778424	-	105	3 dry	Pass	
HDR:W24DS02286	S24DS-09435	18/12/2024	1	2520 / 1	355490	5778474	18.685	97	1.5 dry	Pass	
HDR:W24DS02286	S24DS-09436	18/12/2024	2	2515 / 2	355561	5778460	16.855	102	1.5 dry	Pass	
HDR:W24DS02286	S24DS-09437	18/12/2024	3	2529 / 2	355562	5778445	16.614	102	0 dry	Pass	
HDR:W24DS02292	S24DS-09446	19/12/2024	1	2516 / 3	355551	5778471	16.184	101	2.5 dry	Pass	
HDR:W24DS02292	S24DS-09447	19/12/2024	2	2529 / 3	355548	5778439	17.141	99.5	0.5 dry	Pass	
HDR:W24DS02294	S24DS-09449	20/12/2024	1	2514/-	355539	5778506	17.829	98	0.5 dry	Pass	Retest of S24DS-09403
HDR:W25DS00001	S25DS-00001	8/01/2025	1	2528 / 0.394 to FSL	355552	5778427	17.089	95.5	0.5 dry	Pass	
HDR:W25DS00001	S25DS-00002	8/01/2025	2	2515 / 0.04 to FLS	355553	5778461	17.702	99.5	2 dry	Pass	
HDR:W25DS00003	S25DS-00005	9/01/2024	1	2519 / 0.433m to FSL	355503	5778457	18.164	97	0.5 dry	Pass	
HDR:W25DS00003	S25DS-00006	9/01/2024	2	2528 / 0.170m to FSL	355561	5778420	17.299	98.5	0.5 dry	Pass	
HDR:W25DS00003	S25DS-00007	9/01/2024	3	2518 / 0.377m to FSL	355519	5778457	18.065	99.5	1.5 dry	Pass	
HDR:W25DS00004	S25DS-00008	10/01/2025	1	2517 / 0.129m to FSL Final Lift	355535	5778459	17.925m	100.5	2 dry	Pass	
HDR:W25DS00005	S25DS-00009	11/01/2025	1	2526 / 0.043m to FSL	355474	5778513	19.554	101.5	2.5 dry	Pass	
HDR:W25DS00005	S25DS-00010	11/01/2025	2	2529 / 0.166m to FSL	355553	5778436	17.679	104	3 dry	Pass	





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:W24	Report No: HDR:W24DS01031				
<b>HILF Density Ra</b>	tio Report		Issue No: 1				
Client: Greenridge Propertie Address: PO Box 3131 AUBURN VIC 3123 Project: Riverfield Square Est Project No.: 1091938.025	s Pty Ltd	Accredited for compliance w - Testing -					
Order No.:	CG Request No.:	Accreditation Number: Approved Signatory: Kru 12719 (Senior Geotechnician)	ushik Patel				
TRN:	Lot No.:	Site Number: 12712 Date of Issue: 11/04/20 THIS DOCUMENT SHALL NOT BE REPRODUCED EX					
Sample Details							
Location: Cly	de						
Client Request ID:							
Specification Requirements: Mir	imum Hilf Density Ratio of 95%						
-	1289.5.8.1						
Laboratory Test procedures: AS	1289.2.1.1, AS 1289.5.7.1						
Sampling Method: AS	1289.1.2.1 Clause 6.4 (b)						
Source: On:	site						
Material: Cla	у						
Sample Data							
Sample ID	S24DS-04313	S24DS-04314					
Field Sample ID	1	2					
Date Tested	28/06/2024	28/06/2024					
Time Tested	08:40	11:30					
E:	355353	355347					
N:	5778546	5778550					
EL:	19.45	19.526					
Lot / Lift:	2506 / 5	25006 / 6					
Field and Laboratory Dat	a						
Depth of Test (mm)	175	175					
Depth of Layer (mm)	200	200					
AS Sieve Size (mm)	19.0	19.0					
Oversize Wet (%)	0	0					
Field Moisture Content (%)	18.3	16.5					
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1					
Field Wet Density (t/m³)	2.07	2.13					
Field Dry Density (t/m <sup>3</sup> )	1.75	1.83					
Peak Converted Wet Density (t/m		2.10					
Optimum Moisture Content (%)	17.5	16.5					
Compactive Effort	Standard	Standard					
Moisture Ratio (%)	104.5	101.0					
Moisture Variation (%)	0.5 wet	0.0					
Hilf Density Ratio (%)	99.0	101.5					

GEOTECHNICS	o Report	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:W24DS01061           Issue No: 1
Client:       Greenridge Properties F         Address:       PO Box 3131         AUBURN VIC 3123       Project:         Riverfield Square Estate	Pty Ltd	Accredited for compliance with ISO/IEC 17025 – Testing Compliance with ISO/IEC 17025
Project No.: 1091938.025		
Order No.: C	G Request No.:	Accreditation Number: Approved Signatory: B. Taseski 12719 (Ravenhall Laboratory Manager)
TRN: Lo	ot No.:	Site Number: 12712 Date of Issue: 12/07/2024 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Dataile		THIS DOGUMENT SHALL NOT BE REPRODUCED EACEPT IN FULL
Sample Details		
Location: Clyde		
Specification Requirements: Minim	um Hilf Density Ratio of 95°	%
	89.5.8.1	/0
Laboratory Test procedures: AS 12		
-	89.1.2.1 Clause 6.4 (b)	
Source: Onsite		
Material: Clay		
Sample Data		
Sample ID	S24DS-04453	
Field Sample ID	1	
Date Tested	3/07/2024	
E:	355346	
N:	5778532	
EL:	19.457	
Lot / Lift:	2505 / 1	
Field and Laboratory Data		
Depth of Test (mm)	175	
Depth of Layer (mm)	200	
AS Sieve Size (mm)	19.0 0	
Oversize Wet (%) Field Moisture Content (%)	15.4	
Field Moisture Content (76)	AS 1289.2.1.1	
Field Wet Density (t/m <sup>3</sup> )	2.02	
Field Dry Density (t/m <sup>3</sup> )	1.75	
Peak Converted Wet Density (t/m <sup>3</sup> )	2.12	
Optimum Moisture Content (%)	14.5	
Compactive Effort	Standard	
Moisture Ratio (%)	106.5	
Moisture Variation (%)	1.0 wet	
Hilf Density Ratio (%)	95.0	

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:W24DS01079           Issue No: 1
Client: Greenridge Properties F Address: PO Box 3131	Yty Ltd	- Testing
AUBURN VIC 3123 <b>Project:</b> Riverfield Square Estate	e, Stage 25	K-B. Rotel
Project No.: 1091938.025		
Order No.: C	G Request No.:	Accreditation Number: Approved Signatory: Krushik Patel 12719 (Senior Geotechnician)
TRN: Lo	ot No.:	Site Number: 12712 Date of Issue: 11/04/2025 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details		
Location: Clyde		
Client Request ID:		
Specification Requirements: Minim		
Field Test procedures: AS 12 Laboratory Test procedures: AS 12	89.5.8.1	
-	39.1.2.1 Clause 6.4 (b)	
Source: Onsite		
Material: Clay		
Sample Data		
Sample ID	S24DS-04508	
Field Sample ID	1	
Date Tested	5/07/2024	
Time Tested	14:45	
E:	355341	
N:	5778516	
EL:	19.884	
Lot / Lift: Field and Laboratory Data	2504 / 2	
Depth of Test (mm)	175	
Depth of Layer (mm)	200	
AS Sieve Size (mm)	19.0	
Oversize Wet (%)	0	
Field Moisture Content (%)	18.5	
Field Moisture Content Method	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.00	
Field Dry Density (t/m <sup>3</sup> )	1.69	
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06	
Optimum Moisture Content (%)	18.5	
Compactive Effort	Standard	
Moisture Ratio (%)	101.5	
Moisture Variation (%)	0.5 wet	
Hilf Density Ratio (%)	97.5	

Client: Address: Client: Address: Client: Clie		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:W24DS01161 Issue No: 1           Accredited for compliance with ISO/IEC 17025 - Testing
Project: Riverfield Square Estate	e, Stage 25	K-B. Patel
Project No.: 1091938.025		
Order No.: C	G Request No.:	Accreditation Number: Approved Signatory: Krushik Patel 12719 (Senior Geotechnician)
TRN: L	ot No.:	Site Number: 12712 Date of Issue: 1/08/2024 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details		
	field Square Estate, Stage 25	
Client Request ID:		
	num Hilf Density Ratio of 95% (+- 3% of O	MC)
• • • • • •	289.5.8.1	
Laboratory Test procedures: AS 12		
	89.1.2.1 Clause 6.4 (b)	
Source: Onsit Material:	e	
Sample Data		
Sample ID	S24DS-04827	
Field Sample ID	1	
Date Tested	24/07/2024	
Time Tested	10:40	
E	355335	
N	5778518	
Elevation	20.327	
Lot	2504	
Soil Description	Clay	
Field and Laboratory Data Depth of Test (mm)	175	
Depth of Layer (mm)	200	
AS Sieve Size (mm)		
Oversize Wet (%)	100	
	19.0	
Field Moisture Content (%)	0	
Field Moisture Content (%) Field Moisture Content Method	0 22.4	
Field Moisture Content Method	0 22.4 AS 1289.2.1.1	
Field Moisture Content Method Field Wet Density (t/m³)	0 22.4 AS 1289.2.1.1 2.02	
Field Moisture Content Method Field Wet Density (t/m³) Field Dry Density (t/m³)	0 22.4 AS 1289.2.1.1 2.02 1.65	
Field Moisture Content Method Field Wet Density (t/m³)	0 22.4 AS 1289.2.1.1 2.02 1.65	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> )	0 22.4 AS 1289.2.1.1 2.02 1.65 2.06	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%)	0 22.4 AS 1289.2.1.1 2.02 1.65 2.06 19.5	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort	0 22.4 AS 1289.2.1.1 2.02 1.65 2.06 19.5 Standard	

Client: Greenridge Properti Address: PO Box 3131 AUBURN VIC 312 Project: Riverfield Square Est	es Pty Ltd	Accredited for con – Testing	R:W24DS01201 Issue No: 1 Inpliance with ISO/IEC 17025
Project No.: 1091938.025		saultum.	
Order No.:	CG Request No.:		atory: Krushik Patel
TRN:	Lot No.:	12719 (Senior Geotec Site Number: 12712 Date of Issue:	
		THIS DOCUMENT SHALL NOT BE REPROD	
Sample Details			
-	iverfield Square Estate, Stage 25		
Client Request ID:			
-	inimum Dry Density Ratio of 95% \$	andard Compaction	
	S 1289.5.8.1		
Laboratory Test Procedures: A			
	S1289.1.2.1 Clause 6.4 (b)		
	nsite		
Material: C	lay		
Sample Data			
Sample ID	S24DS-05004		
Field Sample ID	1		
Date Tested	31/07/2024		
Time Tested	15:30		
E:	5503.684		
N:	78562.740		
EL:	17.1939		
Lot	2511		
Layer	1		
Soil Description	Clay		
Field and Laboratory Da	ata		
Sample ID	S24DS-05004		
Depth of Test (mm)	175		
Depth of Layer (mm)	200		
AS Sieve Size (mm)	19.0		
Oversize Wet (%)	0		
Oversize Dry (%)	0		
Field Moisture Content (%)	21.4		
Field Wet Density (t/m <sup>3</sup> )	1.95		
Field Dry Density (t/m <sup>3</sup> )	1.61		
Lab Result from Test No.	S24DS-05004		
Maximum Dry Density (t/m³)	1.72		
Optimum Moisture Content (%)			
Compactive Effort	Standard		
Moisture Ratio (%)	119.5		
1			
Moisture Variation	3.5 wet		
Moisture Variation Density Ratio (%) Compactive Effort	3.5 wet 93.5 Standard		





# **HILF Density**

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

GEOTECHNICS		Ph: + 61 3 8796 7900 Fax: +61 3 9706 9431	
		Rep	ort No: HDR:W24DS01209
HILF Density Rat	io Report		Issue No: 1
	•		Accredited for compliance with ISO/IEC 17025
Client: Greenridge Properties Address: PO Box 3131	Pty Ltd	A BARA	– Testing
AUBURN VIC 3123		Iac MRA NATA	1.00
Project: Riverfield Square Esta	te, Stage 25		K-B. Patel
Project No.: 1091938.025			
Order No.: 0	CG Request No.:	Accreditation Number: 12719	Approved Signatory: Krushik Patel (Senior Geotechnician)
TRN:	_ot No.:	Site Number: 12712	Date of Issue: 7/08/2024
		THIS DOCUMENT SHALL	NOT BE REPRODUCED EXCEPT IN FULL
Sample Details			
Location: Rive	rfield Square Estate, Stage 25		
Client Request ID:			
Specification Requirements: Minir	num Hilf Density Ratio of 95%		
Field Test procedures: AS 1	289.5.8.1		
Laboratory Test procedures: AS 1	289.2.1.1, AS 1289.5.7.1		
Sampling Method: AS12	289.1.2.1 Clause 6.4 (b)		
Source: Onsi	te		
Material: Clay			
Sample Data			
Sample ID	S24DS-05044	S24DS-05045	
Field Sample ID	1	2	
Date Tested	1/08/2024	1/08/2024	
Time Tested	09:30	11:45	
E:	355410	-	
N:	5778581	-	
EL:	17.546	17.277	
Lot / Layer:	2508 / 1	2523 / 1	
		Retest of S24DS-05004	
Soil Description	Clay	Clay	
<b>Field and Laboratory Data</b>	1		
Depth of Test (mm)	175	175	
Depth of Layer (mm)	200	200	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	25.1	21.1	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m <sup>3</sup> )	2.05	2.05	
Field Dry Density (t/m³)	1.64	1.69	
Peak Converted Wet Density (t/m <sup>3</sup>		2.08	
Optimum Moisture Content (%)	22.0	18.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	114.0	118.0	
Moisture Variation (%)	3.0 wet	3.0 wet	
Hilf Density Ratio (%)	101.0	98.5	

Client: Greenridge Properties F Address: PO Box 3131	•	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:W24DS01220           Issue No: 1
AUBURN VIC 3123 Project: Riverfield Square Estate	a Stage 25	K-B. Ratel
Project. 1091938.025	e, Stage 25	Mar V TOVICI
-	C Paguaat Na :	Accreditation Number: Approved Signatory: Krushik Patel
	G Request No.:	12719 (Senior Geotechnician)
	ot No.:	Site Number: 12712 Date of Issue: 7/08/2024 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details		
-	field Square Estate, Stage 25	
Client Request ID:	licid Oquare Estate, Otage 20	
Specification Requirements: Minim	um Hilf Density Ratio of 95%	
	289.5.8.1	
Laboratory Test procedures: AS 12		
-	89.1.2.1 Clause 6.4 (b)	
	ted - Reserve	
Material: Clay		
Sample Data		
Sample ID	S24DS-05077	
Field Sample ID	1	
Date Tested	2/08/2024	
Time Tested	13:15	
E:	355442	
N:	5778576	
EL:	17.980	
Lot / Layer:	2510 / 2	
Soil Description	Clay	
Field and Laboratory Data		
Depth of Test (mm)	175	
Depth of Layer (mm)	200	
AS Sieve Size (mm)	19.0	
Oversize Wet (%) Field Moisture Content (%)	0 19.2	
Field Moisture Content (%)	AS 1289.2.1.1	
Field Wet Density (t/m <sup>3</sup> )	2.06	
Field Dry Density (t/m³)	1.73	
Peak Converted Wet Density (t/m <sup>3</sup> )		
Optimum Moisture Content (%)	17.0	
Compactive Effort	Standard	
Moisture Ratio (%)	113.5	
Moisture Variation (%)	2.0 wet	





#### 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: HD	R:W24DS01945
<b>HILF Density Rati</b>	o Report				Issue No: 1
	o Kepon				
Client: Greenridge Properties F	Pty Ltd		Wellin War	Accredited for col — Testing	mpliance with ISO/IEC 1702
Address: PO Box 3131					
AUBURN VIC 3123 <b>Project:</b> Riverfield Square Estate	Stage 25		Iac-MRA N	ATA KR	. Patel
Project No.: 1091938.025	, etage 20		To and all all all all all all all all all al		, rad
-	G Request No.:		Accreditation Nu	umber: Approved Sign	atory: Krushik Patel
	ot No.:		12719 Site Number: 1	(Senior Geotec 2712 Date of Issue:	
	5t NO			IT SHALL NOT BE REPROD	
Sample Details					
Location:					
Client Request ID:					
Specification Requirements: Minim	um Hilf Density Ra	tio of 95%			
	89.5.8.1				
Laboratory Test procedures: AS 12		5.7.1			
	89.1.2.1 Clause 6.4				
Source: Onsite	e				
Material: Sandy	/ Clay trace of Grav	vel			
Sample Data					
Sample ID	S24DS-08057	S24DS-08058	S24DS-08059	S24DS-08060	S24DS-08061
Field Sample ID	1	2	3	4	5
Date Tested	1/11/2024	1/11/2024	1/11/2024	1/11/2024	1/11/2024
Time Tested	08:37	08:46	08:55	09:22	09:33
E:	355526	355487	355424	355426	355402
N:	5778548	5778562	5778571	5778525	5778523
RL:	17.010	17.539	18.223	20.486	20.771
Lot / Layer:	2512 / -	2523 / -	2509 / -	2521 / -	2502 / -
Field and Laboratory Data					
Depth of Test (mm)	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0
Field Moisture Content (%)	13.7	13.9	16.6	18.2	21.3
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
Field Wet Density (t/m³)	2.14	2.11	1.94	1.97	1.98
Field Dry Density (t/m³)	1.88	1.85	1.66	1.66	1.63
Peak Converted Wet Density (t/m <sup>3</sup> )		2.12	1.91	2.08	1.94
Optimum Moisture Content (%)	14.5	14.0	17.0	18.5	21.5
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Ratio (%)	95.0	98.0	99.0	100.0	100.0
Moisture Variation (%)	0.5 dry	0.5 dry	0.0	0.0	0.0
Hilf Density Ratio (%)	102.0	99.5	101.5	94.5	102.0





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

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

HILF Density Rati	o Poport	Rep	oort No: HDR:W24DS02157 Issue No: 1
Client: Greenridge Properties F	•		Accredited for compliance with ISO/IEC 17025 – Testing
Address: PO Box 3131 AUBURN VIC 3123		Iac-MRA NATA	
<b>Project:</b> Riverfield Square Estate	e, Stage 25		K-B. Patel
Project No.: 1091938.025		Sugar Segura Contraction Security Secur	1 1 1 1 1 1 1 1
Order No.: C	G Request No.:	Accreditation Number: 12719	Approved Signatory: Krushik Patel
	ot No.:	Site Number: 12712	(Senior Geotechnician) Date of Issue: 3/12/2024
		THIS DOCUMENT SHALL	NOT BE REPRODUCED EXCEPT IN FULL
Sample Details Location: Client Request ID: Specification Requirements: Minim Field Test procedures: AS 12	um Hilf Density Ratio of 95% 89.5.8.1		
Laboratory Test procedures: AS 12			
-	89.1.2.1 Clause 6.4 (b)		
Source: Onsite			
Material: Clay	-		
Sample Data Sample ID		00450 00004	00400 00005
Field Sample ID	S24DS-08883	S24DS-08884	S24DS-08885
Date Tested	28/11/2024	28/11/2024	28/11/2024
Time Tested	09:45	11:10	12:40
E:	355423	355395	355435
 N:	5778522	5778539	5778534
EL:	20.439	19.986	20.081
Lot / Layer:	2521 / -	2501 / -	2522 / -
	Retest of S24DS-08060		
Field and Laboratory Data			
Depth of Test (mm)	175	175	175
Depth of Layer (mm)	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0
Oversize Wet (%)	0	0	0
Field Moisture Content (%)	22.4	15.6	12.9
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.04	2.07	2.00
Field Dry Density (t/m³)	1.67	1.79	1.77
Peak Converted Wet Density (t/m³)	2.05	2.10	2.01
Optimum Moisture Content (%)	19.5	15.0	15.5
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	115.0	103.5	82.5
Moisture Variation (%)	3.0 wet	0.5 wet	2.5 dry
Hilf Density Ratio (%)	99.5	99.0	99.5

GEOTECHNICS	o Report		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:W24DS02161           Issue No: 1
Client: Greenridge Properties F Address: PO Box 3131 AUBURN VIC 3123			Accredited for compliance with ISO/IEC 17025 – Testing
Project: Riverfield Square Estate	e, Stage 25		K-B. Rate
Project No.: 1091938.025			Accreditation Number: Approved Signatory: Krushik Patel
	G Request No.:		12719 (Senior Geotechnician)
TRN: Lo	ot No.:		Site Number: 12712 Date of Issue: 3/12/2024 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details Location:		J	
Client Request ID: Specification Requirements:			
	89.5.8.1		
Laboratory Test procedures: AS 12			
-	39.1.2.1 Clause 6.4 (b)		
Source: Onsite			
Material: Clay			
Sample Data			
Sample ID	S24DS-08900		
Field Sample ID	1		
Date Tested	29/11/2024		
Time Tested	09:40		
E:	355423		
N:	5778533		
EL:	20.525		
Lot / Layer:	2522 / -		
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 (%)	12.4		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m <sup>3</sup> )	2.04		
Field Dry Density (t/m <sup>3</sup> )	1.82		
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05		
Optimum Moisture Content (%)	14.5 Standard		
Compactive Effort Moisture Ratio (%)	Standard 84.0		
Moisture Variation (%)	2.5 dry		
Hilf Density Ratio (%)	<b>99.5</b>		
	33.0		

GEOTECHNICS	Safe	ACN 143 009 330 25 Metcalf Street DANDENONG SOUT Ph: + 61 3 8796 790 Fax: +61 3 9706 943 Rep	0
Client: Greenridge Properties F	-		Accredited for compliance with ISO/IEC 17025 – Testing
Address: PO Box 3131	·)		, , , , , , , , , , , , , , , , , , ,
AUBURN VIC 3123 <b>Project:</b> Riverfield Square Estate	Stage 25	Iac-MRA NATA	K.B. Patel
Project No.: 1091938.025	5, Olage 20	Telesandahah	F.D. RWEI
	G Request No.:	Accreditation Number:	Approved Signatory: Krushik Patel
	ot No.:	12719 Site Number: 12712	(Senior Geotechnician) Date of Issue: 11/04/2025
	5t No	11	NOT BE REPRODUCED EXCEPT IN FULL
Sample Details			
Location:			
Client Request ID:			
Specification Requirements: Minim	um Hilf Density Ratio of 95%		
	289.5.8.1		
Laboratory Test procedures: AS 12	89.2.1.1, AS 1289.5.7.1		
Sampling Method: AS12	89.1.2.1 Clause 6.4 (b)		
Source: Onsite	e		
Material: Clay			
Sample Data			
Sample ID	S24DS-08941	S24DS-08942	
Field Sample ID	1	2	
Date Tested	2/12/2024	2/12/2024	
Time Tested	14:20	14:40	
E:	355399	355440	
N:	5778578	5778571	
EL:	18.575	18.254	
Lot / Layer:	2507 / -	2510 / -	
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 (%)	0	•	
	0	0	
Field Moisture Content (%)	0 14.9	20.6	
Field Moisture Content Method	14.9 AS 1289.2.1.1	20.6 AS 1289.2.1.1	
Field Moisture Content Method Field Wet Density (t/m³)	14.9 AS 1289.2.1.1 2.02	20.6 AS 1289.2.1.1 2.02	
Field Moisture Content Method Field Wet Density (t/m³) Field Dry Density (t/m³)	14.9 AS 1289.2.1.1 2.02 1.76	20.6 AS 1289.2.1.1 2.02 1.67	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> )	14.9 AS 1289.2.1.1 2.02 1.76 2.09	20.6 AS 1289.2.1.1 2.02 1.67 2.02	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%)	14.9 AS 1289.2.1.1 2.02 1.76 2.09 15.0	20.6 AS 1289.2.1.1 2.02 1.67 2.02 20.5	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort	14.9 AS 1289.2.1.1 2.02 1.76 2.09 15.0 Standard	20.6 AS 1289.2.1.1 2.02 1.67 2.02 20.5 Standard	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort Moisture Ratio (%)	14.9 AS 1289.2.1.1 2.02 1.76 2.09 15.0 Standard 99.5	20.6 AS 1289.2.1.1 2.02 1.67 2.02 20.5 Standard 101.5	
Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort	14.9 AS 1289.2.1.1 2.02 1.76 2.09 15.0 Standard	20.6 AS 1289.2.1.1 2.02 1.67 2.02 20.5 Standard	

Dandenong South

	• Pty Ltd	Accreditation Number: 12719 Site Number: 12712	Accredited for compliance with ISO/IEC 17025 - Testing Accredited Signatory: Krushik Patel (Senior Geotechnician) Date of Issue: 11/04/2025
Sample Details		THIS DOCUMENT SHALL	NOT BE REPRODUCED EXCEPT IN FULL
Location:			
Client Request ID:			
Specification Requirements: Minim	um Hilf Density Ratio of 95%		
	89.5.8.1		
Laboratory Test procedures: AS 12	89.2.1.1, AS 1289.5.7.1		
	39.1.2.1 Clause 6.4 (b)		
Source: Onsite			
Material: Clay			
Sample Data			
Sample ID	S24DS-08964	S24DS-08965	
Field Sample ID	1	2	
Date Tested	3/12/2024	3/12/2024	
Time Tested	11:10	11:20	
E:	355427	3554006	
N:	5778562	5778566	
EL:	18.804	18.073	
Lot / Layer:	2509 / -	2508 / -	
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 (%)	0	0	
Field Moisture Content (%)	14.1	14.8	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m <sup>3</sup> )	2.05	2.02	
	1.80	1.76	
Field Dry Density (t/m <sup>3</sup> )	0.00	0.00	
Peak Converted Wet Density (t/m <sup>3</sup> )	2.03	2.03	
Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%)	16.5	17.0	
Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort	16.5 Standard	17.0 Standard	
Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort Moisture Ratio (%)	16.5 Standard 85.5	17.0 Standard 86.0	
Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort	16.5 Standard	17.0 Standard	

Dandenong South

GEOTECHNICS	Safe Be Report	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:W24DS02251           Issue No: 1
Client: Greenridge Properties F Address: PO Box 3131		Accredited for compliance with ISO/IEC 1702 – Testing
AUBURN VIC 3123		HACMRA NATA IN DO L
Project: Riverfield Square Estate	e, Stage 25	K-B. Ratel
Project No.: 1091938.025		Accorditation Numbers Approved Signatory Knuchik Date
Order No.: Co	G Request No.:	Accreditation Number: Approved Signatory: Krushik Patel 12719 (Senior Geotechnician)
TRN: Lo	ot No.:	Site Number: 12712 Date of Issue: 16/12/2024 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details		
Location:		
Client Request ID:		
Specification Requirements: Minim		
	89.5.8.1	
Laboratory Test procedures: AS 12		
	39.1.2.1 Clause 6.4 (b)	
Source: Onsite	9	
Material: Clay		
Sample Data		
Sample ID	S24DS-09307	
Field Sample ID	1	
Date Tested	12/12/2024	
Time Tested	10:50	
E:	355477	
N:	5778545	
EL:	18.531	
Lot / Layer:	2524 / 1	
Field and Laboratory Data		
Depth of Test (mm)	175	
Depth of Layer (mm)	200	
AS Sieve Size (mm)	19.0	
Oversize Wet (%)	12	
Field Moisture Content (%)	17.3	
Field Moisture Content Method	AS 1289.2.1.1	
Field Wet Density (t/m <sup>3</sup> )	2.05	
Field Dry Density (t/m <sup>3</sup> )	1.74	
Peak Converted Wet Density (t/m <sup>3</sup> )	1.91	
Optimum Moisture Content (%)	22.0	
Compactive Effort	Standard	
Moisture Ratio (%)	79.5	
Moisture Variation (%)	4.0 dry	
Hilf Density Ratio (%)	107.0	





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

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

Client:       Greenindge Properties Pty Ltd         Address:       PP object N0::         Project:       Riverfield Square Estate, Stage 25         Project:       No::         TRN:       Lot No.:         Sample Details         Location:         Client Request ID:         Specification Requirements:         Material:         Clay         Sample Data         Sample ID       122024         Sample ID       122024         Sample ID       122024         Sato Steed       13/12/2024         13/12/2024       13/12/2024         Ni:       5778549         Steed       13/12/2024         Steed       13/12/2024         Clay       14:40         E:       2527/2         2527/2       2513/-         Clay       2527/2         Stat Gata       14:40         E1:       -         Sample ID       175         Stat Gata	Io: HDR:W24DS02265 Issue No: 1	Report No:		o Report	LF Density Rati
Order No.:         CG Request No.:         12719         (Sample TR):           Lot No.:         Stepselficitation         Stepselficitation         Stepselficitation           Client Request ID:         Specification Requirements:         Minimum Hilf Density Ratio of 95%         Field Test procedures:         AS 1289.5.8.1           Laboratory Test procedures:         AS 1289.1.2.1 Clause 6.4 (b)         Source:         Onsite           Material:         Clay         Clay         Sample Data           Sample ID         \$24D5-09369         \$24D5-09370         \$24D5-09371           Field Sample ID         1         2         3           Date Tested         13/12/2024         13/12/2024         13/12/2024           Time Tested         14/4.0         14/4.0         E:         365502         365523         365504           N:         5778526         5778549         5778549         5778549         EL:         - <th>-B. Patel</th> <th></th> <th></th> <th>-</th> <th>dress: PO Box 3131 AUBURN VIC 3123 ject: Riverfield Square Estate</th>	-B. Patel			-	dress: PO Box 3131 AUBURN VIC 3123 ject: Riverfield Square Estate
TRN:         Lot No.:         Site Number: 12712         Date control Test DocuMENT SHALL NOT BE THIS DOCUMENT SHALL NOT BE THOT THAT THE PARK THE THIS DOCUMENT	ved Signatory: Krushik Patel or Geotechnician)			G Request No.:	ler No.: C
Sample Details Location: Client Request ID: Specification Requirements: Minimum Hilf Density Ratio of 95% Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.1.2.1 Clause 6.4 (b) Source: Onsite Material: Clay           Sample Data Sample ID         S24DS-09369         S24DS-09370         S24DS-09371           Field Sample ID         1         2         3           Date Tested         13/12/2024         13/12/2024         13/12/2024           Time Tested         13/12/2024         13/12/2024         13/12/2024           N:         5778528         5778549         5778549           EL:         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Field and Laboratory Data         Date Test (mm)         175         175         175           Depth of Test (mm)         200         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0         19.0           Oversize Wet (%)         0         0         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Fiel	of Issue: 11/04/2025	ite Number: 12712 Date of Is		ot No.:	N: Lo
Sample Data           Sample ID         S24DS-09369         S24DS-09370         S24DS-09371           Field Sample ID         1         2         3           Date Tested         13/12/2024         13/12/2024         13/12/2024           Time Tested         14:00         14:20         14:40           E:         355502         355523         355504           N:         5778526         5778549         5778549           EL:         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Field and Laboratory Data			95%	289.5.8.1 289.2.1.1, AS 1289.5.7.1 89.1.2.1 Clause 6.4 (b)	ation: at Request ID: cification Requirements: Minim I Test procedures: AS 12 pratory Test procedures: AS 12 pling Method: AS123 rce: Onsite
Sample ID         S24DS-09369         S24DS-09370         S24DS-09371           Field Sample ID         1         2         3           Date Tested         13/12/2024         13/12/2024         13/12/2024           Time Tested         14:00         14:20         14:40           E:         355502         355523         355504           N:         5778526         5778549         5778549           EL:         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         0           Oversize Wet (%)         0         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1					,
Field Sample ID         1         2         3           Date Tested         13/12/2024         13/12/2024         13/12/2024           Time Tested         14:00         14:20         14:40           E:         355502         355523         355504           N:         5778526         5778549         5778549           EL:         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         0           Oversize Wet (%)         0         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0 <th>S24DS-09372</th> <th>S24DS-09371</th> <th>S24DS-09370</th> <th>S24DS-09369</th> <th>-</th>	S24DS-09372	S24DS-09371	S24DS-09370	S24DS-09369	-
Date Tested         13/12/2024         13/12/2024         13/12/2024           Time Tested         14:00         14:20         14:40           E:         355502         355523         355504           N:         5778526         5778549         5778549           EL:         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Field and Laboratory Data         -         -         -           Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         0           Oversize Wet (%)         0         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	4				
Time Tested         14:00         14:20         14:40           E:         355502         355523         355504           N:         5778526         5778549         5778549           EL:         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Field and Laboratory Data         -         -         -           Field and Laboratory Data         -         -         -           Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0 <th>13/12/2024</th> <th></th> <th></th> <th></th> <th>-</th>	13/12/2024				-
N:         5778526         5778549         5778549           EL:         -         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Field and Laboratory Data         -         -         -           Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.21.1         AS 1289.21.1         AS 1289.21.1           Field Moisture Content Method         AS 1289.21.1         2.00         Field Dry Density (t/m³)         2.01           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	15:00				
EL:         -         -         -           Lot / Layer:         2527 / 2         2513 / -         2511 / -           Field and Laboratory Data         -         -         -           Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	355481	355504	355523	355502	
Lot / Layer:         2527 / 2         2513 / -         2511 / -           Field and Laboratory Data	5778545	5778549	5778549	5778526	
Field and Laboratory Data           Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0	-	-	-	-	
Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	-	2511 / -	2513 / -	2527 / 2	Layer:
Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	Retest of S-09307				
Depth of Test (mm)         175         175         175           Depth of Layer (mm)         200         200         200           AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard					d and Laboratory Data
AS Sieve Size (mm)         19.0         19.0         19.0           Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	175	175	175	175	h of Test (mm)
Oversize Wet (%)         0         0         0           Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	200	200	200	200	h of Layer (mm)
Field Moisture Content (%)         12.6         12.8         14.5           Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	19.0	19.0		19.0	. ,
Field Moisture Content Method         AS 1289.2.1.1         AS 1289.2.1.1         AS 1289.2.1.1           Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	0				. ,
Field Wet Density (t/m³)         2.11         2.07         2.00           Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	16.6				
Field Dry Density (t/m³)         1.87         1.83         1.74           Peak Converted Wet Density (t/m³)         2.07         1.99         2.04           Optimum Moisture Content (%)         15.0         15.5         17.0           Compactive Effort         Standard         Standard         Standard	AS 1289.2.1.1				
Peak Converted Wet Density (t/m³)2.071.992.04Optimum Moisture Content (%)15.015.517.0Compactive EffortStandardStandardStandard	2.09				2, ,
Optimum Moisture Content (%)15.015.517.0Compactive EffortStandardStandardStandard	1.80				
Compactive Effort         Standard         Standard         Standard	2.00				
-	19.0 Standard				. ,
	87.5	86.0	83.5	85.5	-
Moisture Variation (%)         2.0 dry         2.5 dry         2.5 dry	2.5 dry				
Hilf Density Ratio (%)         102.0         104.0         98.0	104.5	•	•	•	. ,

GEOTECHNICS	HADWICK TECHNICS				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:W24DS02272			
<b>HILF Density Rati</b>	o Repoi	rt			Issue No: 1		
Client: Greenridge Properties Pty Ltd					Accredited for compliance with ISO/IEC 17025 – Testing		
Address: PO Box 3131							
AUBURN VIC 3123 <b>Project:</b> Riverfield Square Estate	Stage 25		ilac MRA NATA	1/1-			
Project: Riverfield Square Estate, Stage 25 Project No.: 1091938.025				Maladadada V	dy series		
-	G Paquast No :			Accreditation Number:	Approved Signatory: J. Lamont		
	G Request No.: ot No.:			12719 (Discipline Manager - CMT) Site Number: 12712 Date of Issue: 7/02/2025			
					NOT BE REPRODUCED EXCEPT IN FULL		
Sample Details							
Location:							
Client Request ID:							
Specification Requirements: Minim	um Hilf Density	Ratio of 95%					
	89.5.8.1						
Laboratory Test procedures: AS 12							
	89.1.2.1 Clause	6.4 (b)					
	e / Imported						
Material: Clay							
Sample Data							
Sample ID	S24DS-09403	S24DS-09404	S24DS-094	05			
Field Sample ID	1	2	3				
Date Tested	16/12/2024	16/12/2024	16/12/202	4			
Time Tested	09:30	10:00	14:00				
E:	355536	355477	355563				
N:	5778510	5778533	5778474				
EL:	17.882	19.076	16.684				
Lot / Layer: Field and Laboratory Data	2514 / -	2525 / -	2516 / 1				
Depth of Test (mm)	175	175	175				
Depth of Layer (mm)	200	200	200				
AS Sieve Size (mm)	19.0	19.0	19.0				
Oversize Wet (%)	0	0	0				
Field Moisture Content (%)	12.6	19.4	13.0				
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1	L.1			
Field Wet Density (t/m <sup>3</sup> )	2.00	2.00	2.11				
Field Dry Density (t/m³)	1.78	1.68	1.86				
Peak Converted Wet Density (t/m³)	1.91	2.06	1.95				
Optimum Moisture Content (%)	17.0	18.5	16.0				
Compactive Effort	Standard	Standard	Standar	b			
Moisture Ratio (%)	73.5	105.0	82.0				
Moisture Variation (%)	4.5 dry	1.0 wet	3.0 dry				
Hilf Density Ratio (%)	105.0	97.5	108.0				

<b>HILF Density Ratio Report</b>				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:W24DS02280 Issue No: 1			
Client: Greenridge Properties Pty Ltd Address: PO Box 3131					– Testing	ance with ISO/IEC 17025	
AUBURN VIC 3123 <b>Project:</b> Riverfield Square Estate	e. Stage 25				1.0	5	
Project: Riverheid Square Estate, Stage 25 Project No.: 1091938.025			Maladaha V	07 -	- LAS		
	-			Accreditation Number:	Approved Signator		
	ot No.:			12719 Site Number: 12712	(Discipline Manage Date of Issue: 11/		
				THIS DOCUMENT SHALL			
Sample Details							
Location:							
Client Request ID:							
Specification Requirements: Minim	um Hilf Density	Ratio of 95%					
	89.5.8.1						
Laboratory Test procedures: AS 12	89.2.1.1, AS 12	89.5.7.1					
-	289.1.2.1 Clause 6.4 (b)						
Source: Impor	ted - Chadstone						
Material: Sandy	/ Clay						
Sample Data							
Sample ID	S24DS-09419						
Field Sample ID	1						
Date Tested	17/12/2024						
Time Tested	14:31						
E:	355544						
N:	5778424						
EL:	-						
Lot / Layer:	2528 / 1.267 to FSL						
<b>Field and Laboratory Data</b>					1	1	
Depth of Test (mm)	175						
Depth of Layer (mm)	200						
AS Sieve Size (mm)	19.0						
Oversize Wet (%)	0						
Field Moisture Content (%)	18.3						
Field Moisture Content Method	AS 1289.2.1.1						
Field Wet Density (t/m³)	2.03						
Field Dry Density (t/m³)	1.71						
Peak Converted Wet Density (t/m <sup>3</sup> )							
Optimum Moisture Content (%)	21.5						
Compactive Effort	Standard						
Moisture Ratio (%)	86.0						
Moisture Variation (%)	3.0 dry						
Hilf Density Ratio (%)	105.0						





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

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

		Rej	Report No: HDR:W24DS02286					
<b>HILF Density Rati</b>	o Report		Issue No: 1					
<b>_</b>	•		Accredited for compliance with ISO/IEC 17025					
Client: Greenridge Properties F	Pty Ltd		– Testing					
Address: PO Box 3131 AUBURN VIC 3123		HAC MRA NATA						
Project: Riverfield Square Estate	e. Stage 25		K.B. Patel					
Project No.: 1091938.025	,	The fail de de la company	1 D. WWG					
	G Request No.:	Accreditation Number:						
	ot No.:	12719 Site Number: 12712	12719 (Senior Geotechnician) Site Number: 12712 Date of Issue: 21/01/2025					
		11	THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL					
Sample Details								
Location:								
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: AS12	289.1.2.1 Clause 6.4 (b)							
Source: Impor	rt							
Material: Clay								
Sample Data								
Sample ID	S24DS-09435	S24DS-09436	S24DS-09437					
Field Sample ID	1	2	3					
Date Tested	18/12/2024	18/12/2024	18/12/2024					
Time Tested	09:30	12:00	14:30					
E:	355490	355561	355562					
N:	5778474	5778460	5778445					
EL:	18.685	16.855	16.614					
Lot / Layer:	2520 / 1	2515 / 2	2529 / 2					
Field and Laboratory Data								
Depth of Test (mm)	175	175	175					
Depth of Layer (mm)	200	200	200					
AS Sieve Size (mm)	19.0	19.0	19.0					
Oversize Wet (%)	0	0	0					
Field Moisture Content (%)	11.8	15.3	14.1					
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1					
Field Wet Density (t/m <sup>3</sup> )	1.99	2.11	2.17					
Field Dry Density (t/m <sup>3</sup> )	1.78	1.83	1.90					
Peak Converted Wet Density (t/m <sup>3</sup> )		2.07	2.13					
Optimum Moisture Content (%)	13.5	17.0	14.0					
Compactive Effort	Standard	Standard	Standard					
Moisture Ratio (%)	87.0	91.0	99.5					
Moisture Variation (%)	1.5 dry	1.5 dry	0.0					
Hilf Density Ratio (%)	97.0	102.0	102.0					

GEOTECHNICS	o Report		ue No: 1
Client: Greenridge Properties F Address: PO Box 3131 AUBURN VIC 3123		Accredited for compliance with IS - Testing	
Project: Riverfield Square Estate	e, Stage 25	K-B Pas	el
Project No.: 1091938.025		- ANIMA	
Order No.: C	G Request No.:	Accreditation Number: Approved Signatory: Krushik 12719 (Senior Geotechnician)	Patel
TRN: Lo	ot No.:	Site Number: 12712 Date of Issue: 21/01/2025 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT	IN FULL
Sample Details			
Location:			
Client Request ID:			
Specification Requirements: Minim	-		
	89.5.8.1		
Laboratory Test procedures: AS 12			
	39.1.2.1 Clause 6.4 (b)		
	ted - Cheltenham		
Material: Clay			
Sample Data			
Sample ID	S24DS-09446	S24DS-09447	
Field Sample ID	1	2	
Date Tested	19/12/2024	19/12/2024	
Time Tested	12:30	15:15	
E:	355551	355548	
N:	5778471	5778439	
EL:	16.184	17.141	
Lot / Layer:	2516 / 3	2529 / 3	
Field and Laboratory Data	175	175	
Depth of Test (mm) Depth of Layer (mm)	175 200	175 200	
AS Sieve Size (mm)	19.0	19.0	
Oversize Wet (%)	0	0	
Field Moisture Content (%)	15.2	18.7	
Field Moisture Content (76)	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m <sup>3</sup> )	2.04	2.07	
Field Dry Density (t/m <sup>3</sup> )	1.77	1.75	
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02	2.08	
Optimum Moisture Content (%)	18.0	19.0	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	85.0	97.5	
Moisture Variation (%)	2.5 dry	0.5 dry	
Hilf Density Ratio (%)	101.0	99.5	

GEOTECHNICS	o Report		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:W24DS02294 Issue No: 1
Client: Greenridge Properties P Address: PO Box 3131	ty Ltd		Accredited for compliance with ISO/IEC 17025 – Testing
AUBURN VIC 3123			ACMRA NATA IL DO
Project: Riverfield Square Estate	, Stage 25		K-B. Ratel
Project No.: 1091938.025			
Order No.: Co	G Request No.:		Accreditation Number: Approved Signatory: Krushik Patel 12719 (Senior Geotechnician)
TRN: Lo	ot No.:		Site Number: 12712 Date of Issue: 21/01/2025 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Laboratory Test procedures: AS 12 Sampling Method: AS128 Source: Onsite Material: Clay Sample Data Sample ID Field Sample ID Date Tested	89.5.8.1 89.2.1.1, AS 1289.5.7.1 39.1.2.1 Clause 6.4 (b)		
E:	355539		
N:	5778506		
EL:	17.829		
Lot / Layer:	2514 / - Retest of S24DS-09403		
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 (%)	18.3		
Field Moisture Content Method	AS 1289.2.1.1		
Field Wet Density (t/m³)	1.98		
Field Dry Density (t/m <sup>3</sup> )	1.68		
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02		
Optimum Moisture Content (%)	19.0		
Compactive Effort	Standard		
Moisture Ratio (%)	97.0		
Moisture Variation (%)	0.5 dry		
Hilf Density Ratio (%)	98.0		

GEOTECHNICS	o Report	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:W25DS0000*           Issue No: *
Client: Greenridge Properties F	- Pty Ltd	Accredited for compliance with ISO/IEC 170
Address: PO Box 3131		
AUBURN VIC 3123 <b>Project:</b> Riverfield Square Estate	s Stage 25	K-B. Rojel
Project No.: 1091938.025	e, olage 20	Made V TOV ROLL
	G Request No.:	Accreditation Number: Approved Signatory: Krushik Patel
	ot No.:	12719 (Senior Geotechnician) Site Number: 12712 Date of Issue: 11/04/2025
L(	<u> </u>	THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details		
Location:		
Client Request ID:		
Specification Requirements: Minim	num Drv Densitv Ratio of 95% S	Standard Compaction
	289.5.8.1	
Laboratory Test procedures: AS 12	289.2.1.1. AS 1289.5.7.1	
	89.1.2.1 Clause 6.4 (b)	
Source: Impor		
•	y CLAY	
Sample Data	00500 00001	
Sample ID Field Sample ID	S25DS-00001	\$25DS-00002 2
Date Tested	8/01/2025	8/01/2025
Time Tested	10:58	13:50
E:	355552	
N:	5778427	355553 5778461
RL:	17.089	17.702
Lot / Layer:		
Field and Laboratory Data	2528 / 0.394 to FSL	2515 / 0.04 to FLS
Depth of Test (mm)	175	175
Depth of Layer (mm)	200	200
AS Sieve Size (mm)	19.0	19.0
Oversize Wet (%)	0	0
Field Moisture Content (%)	14.1	12.3
Field Moisture Content (76)	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m <sup>3</sup> )	1.98	2.04
Field Dry Density (t/m <sup>3</sup> )	1.73	1.82
Peak Converted Wet Density (t/m <sup>3</sup> )		2.06
Optimum Moisture Content (%)	14.5	14.5
Compactive Effort	Standard	Standard
Moisture Ratio (%)	96.5	85.0
Moisture Variation (%)	0.5 dry	2.0 dry
Hilf Density Ratio (%)	95.5	99.5





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

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

	_	Rep	ort No: HDR:W25DS00003 Issue No: 1
HILF Density Rati	o Report		Issue No: 1
Client: Greenridge Properties F Address: PO Box 3131 AUBURN VIC 3123 Project: Riverfield Square Estate Project No.: 1091938.025			Accredited for compliance with ISO/IEC 17025 - Testing
Order No.: C	G Request No.:	Accreditation Number: 12719	Approved Signatory: Krushik Patel (Senior Geotechnician)
TRN: L	ot No.:	Site Number: 12712 THIS DOCUMENT SHALL	Date of Issue: 21/01/2025 NOT BE REPRODUCED EXCEPT IN FULL
Sample Details			
Location:			
Client Request ID:			
Specification Requirements: Minim	um Hilf Density Ratio of 95%		
Field Test procedures: AS 12	289.5.8.1		
Laboratory Test procedures: AS 12	289.2.1.1, AS 1289.5.7.1		
Sampling Method: AS12	89.1.2.1 Clause 6.5.4		
Source: Impor	ted		
Material: Sandy	y Clay		
Sample Data			
Sample ID	S25DS-00005	S25DS-00006	S25DS-00007
Field Sample ID	1	2	3
Date Tested	9/01/2024	9/01/2024	9/01/2024
Time Tested	11:10	14:02	15:41
E:	355503	355561	355519
N:	5778457	5778420	5778457
RL:	18.164	17.299	18.065
Lot / Layer:	2519 / 0.433m to FSL	2528 / 0.170m to FSL	2518 / 0.377m to FSL
Field and Laboratory Data			
Depth of Test (mm)	175	175	175
Depth of Layer (mm)	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0
Oversize Wet (%)	0	0	0
Field Moisture Content (%)	14.4	14.1	12.9
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	AS 1289.2.1.1
Field Wet Density (t/m³)	2.01	2.03	2.08
Field Dry Density (t/m³)	1.75	1.78	1.84
Peak Converted Wet Density (t/m <sup>3</sup> )		2.07	2.09
Optimum Moisture Content (%)	15.0	14.5	14.5
Compactive Effort	Standard	Standard	Standard
Moisture Ratio (%)	96.0	97.5	88.0
Moisture Variation (%)	0.5 dry	0.5 dry	1.5 dry
Hilf Density Ratio (%)	97.0	98.5	99.5

Client: Greenridge Properties		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:W25DS00004           Issue No: 1
Address: PO Box 3131 AUBURN VIC 3123		
Project: Riverfield Square Estat	e, Stage 25	K-B. Patel
Project No.: 1091938.025		
Order No.: C	G Request No.:	Accreditation Number: Approved Signatory: Krushik Patel 12719 (Senior Geotechnician)
TRN: L	ot No.:	Site Number: 12712 Date of Issue: 21/01/2025
		THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details		
Location:		
Client Request ID:		
Specification Requirements: Minim	num Hilf Density Ratio of 95%	
	289.5.8.1	
Laboratory Test procedures: AS 12	289.2.1.1, AS 1289.5.7.1	
-	89.1.2.1 Clause 6.4 (b)	
Source: Impo		
Material: Sand	y Clay	
Sample Data		
Sample ID	S25DS-00008	
Field Sample ID	1	
Date Tested	10/01/2025	
Time Tested	13:13	
E:	355535	
N:	5778459	
RL:	17.925m	
Lot / Layer:	2517 / 0.129m to FSL	
	2011 / 0112011 10 1 02	
	Final Lift	
Field and Laboratory Data	Final Lift	
Field and Laboratory Data		
Depth of Test (mm)	175	
Depth of Test (mm) Depth of Layer (mm)	175 200	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm)	175	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%)	175 200 19.0	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm)	175 200 19.0 0	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%) Field Moisture Content (%)	175 200 19.0 0 20.3	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%) Field Moisture Content (%) Field Moisture Content Method	175 200 19.0 0 20.3 AS 1289.2.1.1	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%) Field Moisture Content (%) Field Moisture Content Method Field Wet Density (t/m³)	175 200 19.0 0 20.3 AS 1289.2.1.1 1.95 1.62	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%) Field Moisture Content (%) Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> )	175 200 19.0 0 20.3 AS 1289.2.1.1 1.95 1.62	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%) Field Moisture Content (%) Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> )	175 200 19.0 0 20.3 AS 1289.2.1.1 1.95 1.62 1.94	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%) Field Moisture Content (%) Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%)	175 200 19.0 0 20.3 AS 1289.2.1.1 1.95 1.62 1.94 22.5	
Depth of Test (mm) Depth of Layer (mm) AS Sieve Size (mm) Oversize Wet (%) Field Moisture Content (%) Field Moisture Content Method Field Wet Density (t/m <sup>3</sup> ) Field Dry Density (t/m <sup>3</sup> ) Peak Converted Wet Density (t/m <sup>3</sup> ) Optimum Moisture Content (%) Compactive Effort	175 200 19.0 0 20.3 AS 1289.2.1.1 1.95 1.62 1.94 22.5 Standard	

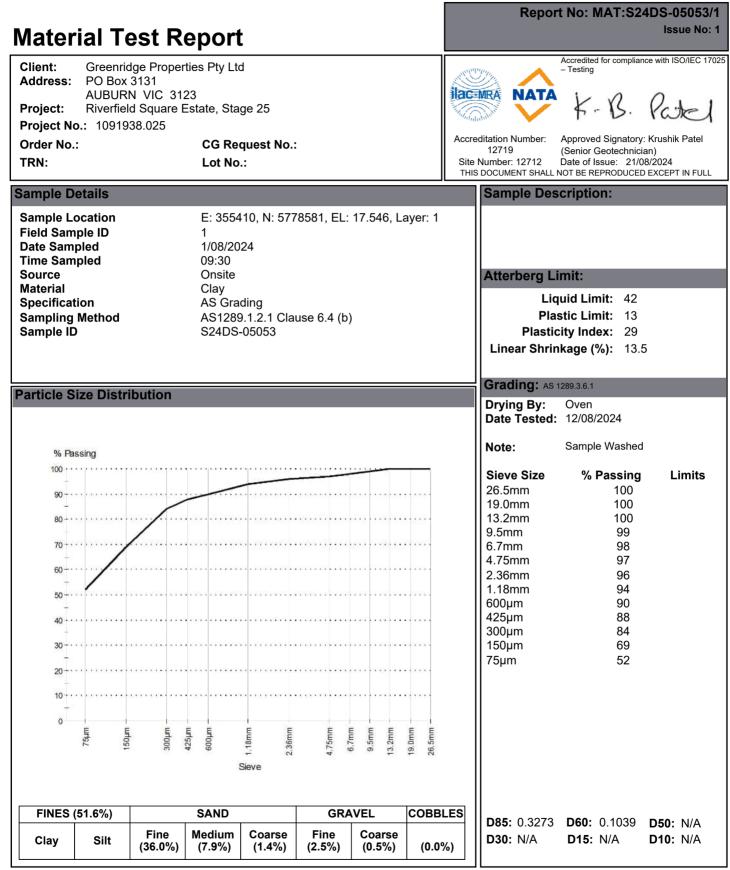
GEOTECHNICS	o Report	Dandenong South           ACN 143 009 330           25 Metcalf Street           DANDENONG SOUTH, VIC 3175           Ph: + 61 3 8796 7900           Fax: +61 3 9706 9431           Report No: HDR:W25DS0000           Issue No	
Client: Greenridge Properties F Address: PO Box 3131 AUBURN VIC 3123		Accredited for compliance with ISO/IEC 17	
Project: Riverfield Square Estate	e, Stage 25	K-B. Pate	l
Project No.: 1091938.025			<u>.</u>
Order No.: Co	G Request No.:	Accreditation Number: Approved Signatory: Krushik Patel 12719 (Senior Geotechnician)	
TRN: Lo	ot No.:	Site Number: 12712 Date of Issue: 21/01/2025 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL	_
Sample Details			
Location:			
Client Request ID:			
Specification Requirements: Minim	um Hilf Density Ratio of 95%		
· · · · · ·	89.5.8.1		
Laboratory Test procedures: AS 12	89.2.1.1, AS 1289.5.7.1		
Sampling Method: AS128	39.1.2.1 Clause 6.4 (b)		
Source: Import	ted		
Material: Sandy	′ Clay		
Sample Data			
Sample ID	S25DS-00009	S25DS-00010	
Field Sample ID	1	2	
Date Tested	11/01/2025	11/01/2025	
Time Tested	07:50	11:20	
E:	355474	355553	
N:	5778513	5778436	
RL:	19.554	17.679	
Lot / Layer:	2526 / 0.043m to FSL	2529 / 0.166m to FSL	
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 (%)	0	0	
Field Moisture Content (%)	16.3	11.4	
Field Moisture Content Method	AS 1289.2.1.1	AS 1289.2.1.1	
Field Wet Density (t/m³)	2.02	2.10	
Field Dry Density (t/m³)	1.74	1.89	
Peak Converted Wet Density (t/m <sup>3</sup> )	2.00	2.02	
Optimum Moisture Content (%)	18.5	14.5	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	87.5	79.5	
Moisture Variation (%)	2.5 dry	3.0 dry	
Hilf Density Ratio (%)	101.5	104.0	





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

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







# **Material Test Report**

 Client:
 Greenridge Properties Pty Ltd

 Address:
 PO Box 3131 AUBURN VIC 3123

 Project:
 Riverfield Square Estate, Stage 25

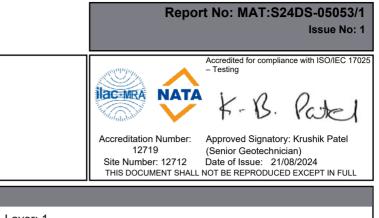
 Project No.:
 1091938.025

 Order No.:
 CG Request No.:

 TRN:
 Lot No.:

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

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



## Sample Details

Sample Location Field Sample ID Date Sampled Time Sampled Source Material Specification Sampling Method Sample ID E: 355410, N: 5778581, EL: 17.546, Layer: 1 1 1/08/2024 09:30 Onsite Clay AS Grading AS1289.1.2.1 Clause 6.4 (b) S24DS-05053

## **Other Test Results**

Description	Method	Limits	Result	
Moisture Content (%)	AS 1289.2.1.1		19.7	
Sample History	AS 1289.1.1		Oven-dried	
Preparation	AS 1289.1.1		Dry Sieved	
Linear Shrinkage (%)	AS 1289.3.4.1		13.5	
Mould Length (mm)			250	
Crumbling			No	
Curling			Yes	
Cracking			No	
Liquid Limit (%)	AS 1289.3.1.2		42	
Plastic Limit (%)	AS 1289.3.2.1		13	
Plasticity Index (%)	AS 1289.3.3.1		29	
Date Tested			14/08/2024	





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

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

		Fax: +61 3 9706 9431
Material Te	st Report	Report No: MAT:S24DS-09406/1 Issue No: 1
Address: PO Box 31 AUBURN	VIC 3123 Square Estate, Stage 25	Accredited for compliance with ISO/IEC 17025 - Testing - Testing Accreditation Number: 12719 Accreditation Sumber: 12719 Accredited for compliance with ISO/IEC 17025 - Testing Accredited for compliance with ISO/IEC 17025 - Testing - Testing
TRN:	Lot No.:	Site Number: 12712 Date of Issue: 3/02/2025 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
Sample Details		Particle Size Distribution
Sample Location Field Sample ID Date Sampled Time Sampled Source	E: 355563, N: 5778474, EL: 16.684, Lot: 2516, Layer: 1 1 16/12/2024 14:00 Imported	Method:AS 1289.3.6.1Drying By:OvenDate Tested:13/01/2025Note:Sample Washed
Material Specification Sampling Method Sample ID	Clay AS Grading AS1289.1.2.1 Clause 6.4 (b) S24DS-09406	Sieve Size         % Passing         Limits           19.0mm         100           13.2mm         99           9.5mm         99           6.7mm         99           4.75mm         98           2.36mm         98
Other Test Resul		1.18mm 97 nits 600μm 95
Description Moisture Content (%) Date Tested Sample History Preparation Linear Shrinkage (%) Mould Length (mm) Crumbling Curling Curling Cracking Liquid Limit (%) Plastic Limit (%) Plasticity Index (%) Date Tested	AS 1289.2.1.1 8.9 17/12/2024 AS 1289.1.1 Oven-Dried AS 1289.1.1 Dry Sieved AS 1289.3.4.1 4.0 250 No No Yes AS 1289.3.1.2 32 AS 1289.3.2.1 14 AS 1289.3.2.1 14 AS 1289.3.3.1 18 22/01/2025	425μm     90       300μm     81       150μm     52       75μm     44
		Chart





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

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

			Fax: +61 3 9706 9431
Material Tes	st Report		Report No: MAT:S25DS-00011/1 Issue No: 1
Client: Greenridge Address: PO Box 31 AUBURN	e Properties Pty Ltd 31 VIC 3123 Square Estate, Stage 25	ot: 2918, Layer: 3.528m to F	Accredited for compliance with ISO/IEC 17025 – Testing Accreditation Number: Approved Signatory: Krushik Patel 12719 (Senior Geotechnician) Site Number: 12712 Date of Issue: 3/02/2025 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL Particle Size Distribution Method: AS 1289.3.6.1 Drying By: Oven Date Tested: 14/01/2025
Source Material Specification Sampling Method Sample ID	Imported Sandy Clay AS Grading AS1289.1.2.1 Clause 6.4 (b) S25DS-00011		Note:Sample WashedSieve Size% PassingLimits26.5mm10019.0mm9813.2mm959.5mm936.7mm924.75mm912.36mm89
Description Moisture Content (%) Date Tested Sample History Preparation Linear Shrinkage (%) Mould Length (mm) Crumbling Curling Curling Cracking Liquid Limit (%) Plastic Limit (%) Plasticity Index (%) Date Tested	AS 1289.2.1.1 13/0 AS 1289.1.1 Over AS 1289.1.1 Dry AS 1289.3.4.1 AS 1289.3.1.2 AS 1289.3.2.1 AS 1289.3.2.1 AS 1289.3.3.1	Result         Limits           13.8         1/2025           n-Dried         Sieved           11.0         250           No         No           No         A3           18         25           1/2025         1/2025	2.301111       69         1.18mm       88         600µm       86         425µm       82         300µm       74         150µm       49         75µm       43
			Chart



## **CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING**

PROJECT	: Riverfield Square Estate Stage 25 Lots 2501 to 2529	
CLIENT	: Greenridge Properties Pty Ltd P.O Box 4136	
	P.O B0X 4130	
	Dandenong South Victoria, 3164	

Chadwick Geotechnics REF: 1091938.025.R1.v1

DATE: 11 April 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 (28 June 2024 and was completed on 11 January 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

Rober Barden

Robert Barden Project Manager

© Chadwick Geotechnics Pty Ltd.

SUDLY KO

Michael DiMeglio Project Director

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