

REPORT

Level One Inspection and Testing Services

Meridian Central Estate Stage 33, Clyde Lot's 3301 to 3305 & Lot's 3331 to 3334

Prepared for:

Grosvenor Lodge Pty Ltd

27 May 2022

Our Ref: 3807351.033.v1

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

Document Control

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1 electronic copy

27 May 2022 Our Ref: 3807351.033.v1

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1 Introduction

As part of the construction of the Meridian Central Estate development in Clyde North, Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics), has been engaged by Grosvenor Lodge Pty Ltd to provide Geotechnical Inspection and Testing Authority (GITA) services for the earthworks within Stage 33 of the Estate.

This report presents the earthworks supervision methods and density testing results for the residential lot's 3301 to 3305 and 3331 to 3334 within the Stage 33 site. The earthworks were completed between 1 September 2021 and 15 December 2021.

The specification required the earthworks to be completed under Level 1 Supervision, that is, full-time Inspection and Testing of the earthworks. Chadwick Geotechnics were onsite for the duration of the earthworks program.

2 Project details

2.1 Location

The Meridian Central Estate is in Clyde North, the Stage 33 site is located North of Stage 32 and West of Stage 34 within the Meridian Central site. The stage is being developed as a residential development.

A site plan of the site is included in Appendix A.

2.2 Fill specification

A summary of the specification is shown below:

- All filling in excess of 300mm depth shall be constructed to specifications satisfying the requirements of AS 3798-2007 "Guidelines on Earthworks for Commercial and Residential Developments".
- All filling works shall be undertaken with supervision to the standard detailed as "Level 1
 Inspection and Testing" in AS 3798-2007, such that the supervisor will issue a notice detailing
 that the works comply with the specifications and drawings.
- 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 in presence of the Level 1 Inspector prior to the placement of engineered fill.
- Fill to be compacted in near horizontal layers.
- Compaction to achieve a ratio of at least 95% Standard MDD (maximum dry density).
- Frequency of testing to be in accordance with Table 8.1 of AS3798-2007.

2.3 Roles

The organisations and their roles are presented in Table 2.1 below.

Table 2.1 Project roles

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

2.4 Source of material

The material used on site was imported from locally sources.

2.5 General

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 a Type 1 project (large scale operation). Compaction control laboratory testing was undertaken within Chadwick Geotechnics NATA accredited laboratories in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes'.

2.6 Subgrade inspection

Prior to fill being placed the subgrade was inspected. The inspections were performed in accordance with the Level 1 guidelines presented in AS 3798–2007 Section 5.5. The stripped surface was stripped to natural clay, and the area was found to be firm and free of vegetation and other deleterious material. All pre-existing uncontrolled fill was removed prior to the placement of engineered fill to achieve the design levels.

2.7 Earthwork supervision

Full time Level 1 inspection and testing of the Stage 33 filling operations commenced on 1 September 2021 and was completed on 15 December 2021. During this period Chadwick Geotechnics was on site all the time (except when there were no earthworks) and observed the earthworks, the placing of fill including the supply of material, conditioning of material (moisture conditioning and oversize removal), placement and compaction of the fill material.

All fill material was placed in lift sequences and Chadwick Geotechnics verified that the surface of the stripped subgrade and additional lifts were thoroughly scarified, and moisture conditioned prior to placement of additional layers to prevent delamination at the layer interface.

Below are two photographs of typical earthwork operations completed during earthworks, See Photographs 2.7.1 and 2.7.2 below.





Photograph 2.7.1: Material Compaction

Photograph 2.7.2: Material conditioning

2.8 Earthwork equipment

The fill was placed and compacted using vibrating Pad foot rollers. Water trucks with water cannons attached were used to moisture condition the soil materials.

2.9 Geotechnical sampling and testing

Field density and moisture content testing was carried out 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 handheld GPS units.

A total of 18 tests were performed across the Stage 33 area during the filling process.

The results show that all tests achieved the specification requirements for the project.

A site plan showing the field density test locations is provided in Appendix A, A summary of the Hilf density test reports is provided within Appendix B and all the test reports are provided within Appendix C, a controlled fill certificate is provided within Appendix D.

3 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 able to be determined, that:

- The materials used by the earthworks contractor met the geotechnical property requirements of the specification.
- 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 material achieved the minimum density requirement of the specification.
- Given the consistent construction practices followed by the earthworks contractor, and as witnessed by 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.

It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2 of AS3798-2007 - Level 1 Inspection and Testing.

27 May 2022

Our Ref: 3807351.033.v1

4 Applicability

This report has been prepared for the exclusive use of our client Grosvenor Lodge Pty Ltd, with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose, or by any person other than our client, without our prior written agreement.

Recommendations and opinions in this report are based on data from discrete investigation locations. The nature and continuity of subsoil away from these locations are inferred but it must be appreciated that actual conditions could vary from the assumed model.

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

Rober Border

Report prepared by:

Authorised for Chadwick Geotechnics Pty Ltd by:

Robert Barden Project Manager

Tim Chadwick Project Director

27-May-22

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Appendix A: Site plan





PROJECT No.	3807351		CLIENT	GROSVE	NOR LODG	E PTY LTD	
DESIGNED DRAWN	MSI KMJA	May.22 May.22	PROJECT	MERIDIA	N ESTATE -	STAGE 33	
CHECKED		,	TITLE	LEVEL OF	NE HILF DE	NSITY TESTING	4
			U	HILF DEN	ISITY TEST	LOCATION PLAN	
APPROVED	D	ATE	SCALE (A3)	1:1000	FIG No.	3807351-F01	REV 1

Appendix B: Hilf density test summary



3807351.033 - Meridian Estate Stage 33 - HILF Summary

Chadwick Geotechnics 25 Metcalf St

Tel: (03) 8796 7900 Fax: (03) 8796 7944 Dandenong S

Report No	Sample No	Date	Test Number	Lot Number	Location [E]	Location [N]	RL	Layer	Density Ratio HILF test (≥95%)	Moisture Variation	Pass / Fail	Remarks
HDR:W21DS02822	10555	24/08/2021	1	Burina Boulevard	355995	5781417	42.32	FSL	102	omc	Pass	Stage 32
HDR:W21DS02822	10556	24/08/2021	2	Nature Strip	355983	5781450	43.16	FSL	102.5	0.5 dry	Pass	Stage 32
HDR:W21DS02822	10557	24/08/2021	3	Burina Boulevard	355948	5781482	42.74	FSL	103.5	2.5 dry	Pass	Stage 32
HDR:W21DS02822	10558	24/08/2021	4	Nature Strip	355947	5781532	42.66	FSL	103	2.0 dry	Pass	Stage 32
HDR:W21DS02822	10559	24/08/2021	5	Burina Boulevard	355931	5781568	43.22	FSL	101	0.5 dry	Pass	Stage 32
HDR:W21DS02853	10696	28/08/2021	1	3210	355987	5781480	41.94	4	99	3.0 wet	Pass	Stage 32
HDR:W21DS02853	10697	28/08/2021	2	3210	355991	5781485	42.35	6	97	0.5 wet	Pass	Stage 33
HDR:W21DS02853	10698	28/08/2021	3	3210	355989	5781488	42.58	FSL	97	0.5 wet	Pass	Stage 32
HDR:W21DS02902	10859	1/09/2021	1	Sofra Road	356012	5781676	42.220	2	101	3.0 dry	Pass	Testing for roadways
HDR:W21DS02902	10863	1/09/2021	2	Sofra Road	356012	5781676	42.700	FSL	103	2.5 dry	Pass	Testing for roadways
HDR:W21DS02900	10853	1/09/2021	1	3209	356002	5781471	43.074	1.000	96.5	omc	Pass	Stage 32
HDR:W21DS02900	10854	1/09/2021	2	3225	356017	5781486	43.329	1.000	98	0.5 wet	Pass	Stage 32
HDR:W21DS02901	10855	1/09/2021	1	3301	355967	5781499	42.424	1	95.5	2.5 dry	Pass	
HDR:W21DS02901	10856	1/09/2021	2	3331	355997	5781514	43.300	1	95.5	2.5 dry	Pass	
HDR:W21DS02901	10857	1/09/2021	3	3334	355984	5781548	43.348	1	102.5	2.5 dry	Pass	
HDR:W21DS02901	10858	1/09/2021	4	3303	355964	5781529	42.532	1	99	2.5 dry	Pass	
HDR:W21DS02926	10941	3/09/2021	1	3226	356004	5781496	43.273	2	94	omc	Fail	See Re-Test 11048 (Stage 32)
HDR:W21DS02926	10942	3/09/2021	2	3210	355986	5781484	43.053	2	97.5	0.5 wet	Pass	Stage 32
HDR:W21DS02959	11048	9/09/2021	1	3226	356001	5781497	43.156	2	97.5	omc	Pass	Re-Test of 10941 (Stage 32)
HDR:W21DS02951	11026	8/09/2021	1	3225	356018	5781486	43.600	3	101	2.0 dry	Pass	Stage 32
HDR:W21DS02960	11049	9/09/2021	1	3302	355961	5781513	42.499	2	97.5	omc	Pass	•
HDR:W21DS02960	11050	9/09/2021	2	3304	355953	5781542	42.487	2	99.5	0.5 wet	Pass	
HDR:W21DS02960	11051	9/09/2021	3	3333	355984	5781538	43.498	2	98.5	0.5 wet	Pass	
HDR:W21DS02960	11052	9/09/2021	4	3332	355995	5781524	43.562	2	98.5	omc	Pass	
HDR:W21DS02968	11067	11/09/2021	1	3303	355970	5781525	42.880	3	99	1.0 dry	Pass	
HDR:W21DS02968	11068	11/09/2021	2	3305	355960	5781555	42.850	3	99.5	2.0 dry	Pass	
HDR:W21DS03018	11243	17/09/2021	1	3210	355995	5781485	43.238		107	3.0 dry	Pass	Stage 32
HDR:W21DS03030	11269	17/09/2021	1	3302	355973	5781506	43.089	4	104	2.5 dry	Pass	3
HDR:W21DS03030	11270	17/09/2021	2	3304	355970	5781538	43.122	4	103.5	2.5 dry	Pass	
HDR:W21DS03019	11244	17/09/2021	1	3331	355991	5781502	43.581		101.5	1.5 dry	Pass	
HDR:W21DS03062	11360	20/09/2021	1	3301	355975	5781497	43.181	5	102	1.5 dry	Pass	
HDR:W21D303062	11361	20/09/2021	2	3303	355961	5781517	43.101	5	101	0.5 dry	Pass	
HDR:W21D303062	11362	20/09/2021	3	3305	355954	5781552	42.842	5	103	omc	Pass	
HDR:W21D303002	11907	21/10/2021	1	3227	356043	5781532	44.667	2	102.5	1.0 dry	Pass	Stage 32
HDR:W21D303233	13573	15/12/2021	1	3209	355980	5781469	43.444	5	99	2.0 dry	Pass	Stage 32
HDR:W21D303692	13573	15/12/2021	2	3210	355993	5781473	43.444	5	103	2.5 dry	Pass	•
												Stage 32
HDR:W21DS03693	13575	15/12/2021	1	3304	355963	5781536	43.318	6	107.5	3.0 dry	Pass	
HDR:W21DS03693	13579	15/12/2021	2	3301	355970	5781509	43.595	6	100	3.0 dry	Pass	

Appendix C: Hilf density testing reports





25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02822

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: **CG Request No.:**

TRN: Lot No.: lac-MRA

NATA

Accredited for compliance with ISO/IEC 17025

Accreditation Number: Approved Signatory: M. Robinson

(Team Leader) 12719

Date of Issue: 6/09/2021 Site Number: 12712 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Sandy Clay

Sample Data						
Sample ID	S21DS-10555	S21DS-10556	S21DS-10557	S21DS-10558	S21DS-10559	
Field Sample ID	1	2	3	4	5	
Date Tested	24/08/2021	24/08/2021	24/08/2021	24/08/2021	24/08/2021	
E:	2109.604 (355995)	2169.688 (355983)	2124.290 (355948)	2120.673 (355947)	2157.309 (355931)	
N:	725.817 (5781417)	573.788 (781450)	640.793 (5781482)	689.520 (5781532)	607.025 (5781568)	
EL / Layer:	42.320 / FSL	43.158 / FSL	42.735 / FSL	42.662 / FSL	43.220 / FSL	
Other:	Burina Boulevard	Nature Strip	Burina Boulevard	Nature Strip	Burina Boulevard	
Sample No:	#2	#3	#4	#5	#6	
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 Wet Density (t/m³)	2.10	2.09	2.12	2.14	2.09	
Peak Converted Wet Density (t/m³)	2.06	2.03	2.04	2.08	2.07	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Variation (%)	0.0	0.5 dry	2.5 dry	2.0 dry	0.5 dry	
Hilf Density Ratio (%)	102.0	102.5	103.5	103.0	101.0	





25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02853

Accredited for compliance with ISO/IEC 17025

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: CG Request No.:

TRN: Lot No.:

AC MEA

: Approved Signatory: M. Robinson

Accreditation Number: Approved Signator (Team Leader)

Site Number: 12712 Date of Issue: 6/09/2021
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Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Clay

Sample Data					
Sample ID	S21DS-10696	S21DS-10697	S21DS-10698		
Field Sample ID	1	2	3		
Date Tested	28/08/2021	28/08/2021	28/08/2021		
E:	2163.43 (355987)	2164.13 (355991)	2165.537 (355989)		
N:	637.05 (5781480)	641.21 (5781485	643.794 (5781488)		
EL / Layer:	41.942 / 4	42.354 / 6	42.584 / FSL		
Lot:	3210	3210	3210		
Other:	Sample: 11	Sample: 12	Sample: 13		
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 Wet Density (t/m³)	1.97	2.02	1.99		
Peak Converted Wet Density (t/m³)	1.98	2.09	2.05		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	3.0 wet	0.5 wet	0.5 wet		
Hilf Density Ratio (%)	99.0	97.0	97.0		





25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02901

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: **CG Request No.:**

TRN: Lot No.: lac-MRA



Accredited for compliance with ISO/IEC 17025

Accreditation Number: Approved Signatory: M. Robinson

(Team Leader) 12719

Date of Issue: 6/09/2021

Site Number: 12712 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Silty Clay

Sample Data					
Sample ID	S21DS-10855	S21DS-10856	S21DS-10857	S21DS-10858	
Field Sample ID	1	2	3	4	
Date Tested	1/09/2021	1/09/2021	1/09/2021	1/09/2021	
E:	2146.457 (355967)	2173.274 (355997)	2159.022 (355984)	2140.891 (355964)	
N:	657.802 (5781499)	674.041 (5781514)	706.959 (5781548)	688.395 (5781529)	
EL / Layer:	42.424 / 1	43.300 / 1	43.348 / 1	42.532 / 1	
Lot:	3301	3331	3334	3303	
Other:	Sample: 1	Sample: 2	Sample: 3	Sample: 4	
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 Wet Density (t/m³)	1.99	2.04	1.98	1.95	
Peak Converted Wet Density (t/m³)	2.08	2.14	1.93	1.97	
Compactive Effort	Standard	Standard	Standard	Standard	
Moisture Variation (%)	2.5 dry	2.5 dry	2.5 dry	2.5 dry	
Hilf Density Ratio (%)	95.5	95.5	102.5	99.0	





25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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Report No: HDR:W21DS02900

Accredited for compliance with ISO/IEC 17025

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: CG Request No.:

TRN: Lot No.:

DE MRA NATA

r: Approved Signatory: M. Robinson

Accreditation Number: Approved Signal (Team Leader)

Site Number: 12712 Date of Issue: 6/09/2021 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite
Material: Silty Clay

Sample Data	Sample Data								
Sample ID	S21DS-10853	S21DS-10854							
Field Sample ID	1	2							
Date Tested	1/09/2021	1/09/2021							
E:	2179.097 (356002)	2194.153 (356017)							
N:	630.161 (5781471)	647.476 (5781486)							
EL / Layer:	43.074 / 1	43.329 / 1							
Lot:	3209	3225							
Other:	Sample: 17	Sample: 18							
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 Wet Density (t/m³)	2.00	2.03							
Peak Converted Wet Density (t/m³)	2.07	2.07							
Compactive Effort	Standard	Standard							
Moisture Variation (%)	0.0	0.5 wet							
Hilf Density Ratio (%)	96.5	98.0							

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25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02926

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: **CG Request No.:**

TRN: Lot No.: lac-MRA

NATA

Approved Signatory: M. Longfield

Accredited for compliance with ISO/IEC 17025

Accreditation Number: 12719 (Senior Technician) Site Number: 12712 Date of Issue: 6/09/2021
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Sample Details

Location:

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Silty Clay

Sample Data				
Sample ID	S21DS-10941	S21DS-10942		
Field Sample ID	1	2		
Date Tested	3/09/2021	3/09/2021		
E:	2180.531 (356004)	2162.225 (355986)		
N:	653.478 (5781496)	641.278 (5781484)		
RL / Layer:	43.273 / 2	43.053 / 2		
Lot:	3226	3210		
Other:	Sample: 21	Sample: 22		
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 Wet Density (t/m³)	2.00	2.08		
Peak Converted Wet Density (t/m³)	2.13	2.14		
Compactive Effort	Standard	Standard		
Moisture Variation (%)	0.0	0.5 wet		
Hilf Density Ratio (%)	94.0	97.5		





25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02902

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: **CG Request No.:**

TRN: Lot No.: lac-MRA



Accredited for compliance with ISO/IEC 17025

Accreditation Number: Approved Signatory: M. Robinson

(Team Leader) 12719 Date of Issue: 6/09/2021 Site Number: 12712

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Sofra Road

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 98% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Sandy Clay

Sample Data	Sample Data								
Sample ID	S21DS-10859	S21DS-10863							
Field Sample ID	1	5							
Date Tested	1/09/2021	1/09/2021							
E:	2187.900 (356012)	2188.208 (356012)							
N:	734.805 (5781676)	838.233 (5781676)							
EL / Layer:	42.220 / 2	42.700 / FSL							
Lot:	-	-							
Other:	Sample: 1	Sample: 2							
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 Wet Density (t/m³)	2.07	2.21							
Peak Converted Wet Density (t/m³)	2.05	2.14							
Compactive Effort	Standard	Standard							
Moisture Variation (%)	3.0 dry	2.5 dry							
Hilf Density Ratio (%)	101.0	103.0							

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25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02959

Issue No: 1

HILF Density Ratio Report

Greenridge Properties Pty Ltd Client:

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: **CG Request No.:**

TRN: Lot No.: lac-MRA

Accreditation Number:



Accredited for compliance with ISO/IEC 17025

Approved Signatory: M. Longfield (Senior Technician)

12719 Site Number: 12712 Date of Issue: 13/09/2021
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location:

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite

Material: Sandy Silty Clay

Sample Data				
Sample ID	S21DS-11048			
Field Sample ID	1			
Date Tested	9/09/2021			
E:	2179.492 (356001)			
N:	655.686 (5781497)			
EL / Layer:	43.156 / 2			
Lot:	3226			
Other:	Sample: 24 / Retest S21DS-10941			
Field and Laboratory Data				
Depth of Test (mm)	175			
Depth of Layer (mm)	200			
AS Sieve Size (mm)	19.0			
Oversize Wet (%)	0			
Field Wet Density (t/m³)	2.06			
Peak Converted Wet Density (t/m³)	2.11			
Compactive Effort	Standard			
Moisture Variation (%)	0.0			
Hilf Density Ratio (%)	97.5			

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25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02951

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: **CG Request No.:**

TRN: Lot No.: ilac-MRA



Accredited for compliance with ISO/IEC 17025

Approved Signatory: M. Longfield

Accreditation Number: 12719 (Senior Technician) Site Number: 12712 Date of Issue: 9/09/2021
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 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Sandy Clay

Sample Data	Sample Data							
Sample ID	S21DS-11026							
Field Sample ID	1							
Date Tested	8/09/2021							
E:	2192.92 (356018)							
N:	643.96 (5781486)							
EL / Layer:	43.60 / 3							
Lot:	3225							
Other:	Sample: 23							
Field and Laboratory Data								
Depth of Test (mm)	175							
Depth of Layer (mm)	200							
AS Sieve Size (mm)	19.0							
Oversize Wet (%)	0							
Field Wet Density (t/m³)	1.95							
Peak Converted Wet Density (t/m³)	1.93							
Compactive Effort	Standard							
Moisture Variation (%)	2.0 dry							
Hilf Density Ratio (%)	101.0							

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25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02960

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: **CG Request No.:**

TRN: Lot No.: Iac-MRA

Accreditation Number:



Accredited for compliance with ISO/IEC 17025

Approved Signatory: M. Longfield (Senior Technician)

12719 Site Number: 12712 Date of Issue: 13/09/2021
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location:

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

AS1289.1.2.1 Clause 6.4 (b) Sampling Method:

Source: Onsite

Material: Silty Sandy Clay

Sample Data					
Sample ID	S21DS-11049	S21DS-11050	S21DS-11051	S21DS-11052	
Field Sample ID	1	2	3	4	
Date Tested	9/09/2021	9/09/2021	9/09/2021	9/09/2021	
E:	2139.722 (355961)	2130.265 (355953)	2162.994 (355984)	2170.023 (355995)	
N:	669.722 (5781513)	694.796 (5781542)	694.677 (5781538)	681.777 (5781524)	
EL / Layer:	42.499 / 2	42.487 / 2	43.498 / 2	43.562 / 2	
Lot:	3302	3304	3333	3332	
Other:	Sample: 5	Sample: 6	Sample: 7	Sample: 8	
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 Wet Density (t/m³)	2.10	2.14	2.05	2.07	
Peak Converted Wet Density (t/m³)	2.16	2.15	2.07	2.11	
Compactive Effort	Standard	Standard	Standard	Standard	
Moisture Variation (%)	0.0	0.5 wet	0.5 wet	0.0	
Hilf Density Ratio (%)	97.5	99.5	98.5	98.5	





25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS02968

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: CG Request No.:

TRN: Lot No.:

A NATA

Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number: Approved Signatory: M. Longfield

12719 (Senior Technician)
Site Number: 12712 Date of Issue: 13/09/2021
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location:

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite
Material: Sandy Clay

Sample Data		Sample Data							
Sample ID	S21DS-11067	S21DS-11068							
Field Sample ID	1	2							
Date Tested	11/09/2021	11/09/2021							
E:	2140.28 (355970)	2132.23 (355960)							
N:	686.77 (5781525)	714.69 (5781555)							
EL / Layer:	42.88 / 3	42.85 / 3							
Lot:	3303	3305							
Other:	Sample: 9	Sample: 10							
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 Wet Density (t/m³)	1.97	1.96							
Peak Converted Wet Density (t/m³)	1.99	1.97							
Compactive Effort	Standard	Standard							
Moisture Variation (%)	1.0 dry	2.0 dry							
Hilf Density Ratio (%)	99.0	99.5							





25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS03018

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: CG Request No.:

TRN: Lot No.:

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Accredited for compliance with ISO/IEC 17025

Accreditation Number: Appro 12719 (Team

Approved Signatory: M. Robinson (Team Leader)

Site Number: 12712 Date of Issue: 17/09/2021
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95%

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite
Material: sandy CLAY

Sample Data				
Sample ID	S21DS-11243			
Field Sample ID	25			
Date Tested	17/09/2021			
E:	2152.179			
N:	634.302			
Lot:	3210			
Elv:	43.238			
Field and Laboratory Data				
Depth of Test (mm)	175			
Depth of Layer (mm)	200			
Field Wet Density (t/m³)	2.02			
Peak Converted Wet Density (t/m³)	1.89			
Compactive Effort	Standard			
Moisture Variation (%)	3.0 dry			
Hilf Density Ratio (%)	107.0			

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25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS03030

Accredited for compliance with ISO/IEC 17025

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: **CG Request No.:**

TRN: Lot No.: lac-MRA NATA

Accreditation Number: 12719

Approved Signatory: M. Robinson

(Team Leader)
Date of Issue: 23/09/2021 Site Number: 12712 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Sandy Clay

Sample Data				
Sample ID	S21DS-11269	S21DS-11270		
Field Sample ID	12	13		
Date Tested	17/09/2021	17/09/2021		
E:	2147.042 (355973)	2143.318 (355970)		
N:	663.577 (5781506)	696.233 (5781538)		
EL / Layer:	43.089 / 4	43.122 / 4		
Lot:	3302	3304		
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 Wet Density (t/m³)	1.99	2.02		
Peak Converted Wet Density (t/m³)	1.91	1.95		
Compactive Effort	Standard	Standard		
Moisture Variation (%)	2.5 dry	2.5 dry		
Hilf Density Ratio (%)	104.0	103.5		

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25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS03019

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: CG Request No.:

TRN: Lot No.:

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Accredited for compliance with ISO/IEC 17025

Accreditation Number: Approved Signatory: M. Robinson

12719 (Team Leader)

Site Number: 12712 Date of Issue: 17/09/2021
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95%

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite
Material: sandy CLAY

Sample Data				
Sample ID	S21DS-11244			
Field Sample ID	1			
Date Tested	17/09/2021			
E:	2167.295			
N:	662.608			
Lot:	3331			
Elv:	43.581			
Field and Laboratory Data				
Depth of Test (mm)	175			
Depth of Layer (mm)	200			
Field Wet Density (t/m³)	2.00			
Peak Converted Wet Density (t/m³)	1.97			
Compactive Effort	Standard			
Moisture Variation (%)	1.5 dry			
Hilf Density Ratio (%)	101.5			

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25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS03062

Accredited for compliance with ISO/IEC 17025

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: **CG Request No.:**

TRN: Lot No.: lac-MRA NATA

Accreditation Number: Approved Signatory: M. Robinson

12719

(Team Leader)
Date of Issue: 23/09/2021 Site Number: 12712 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Sandy Clay

Sample Data							
Sample ID	S21DS-11360	S21DS-11361	S21DS-11362				
Field Sample ID	1	2	3				
Date Tested	20/09/2021	20/09/2021	20/09/2021				
E:	2146.088 (355975)	2132.930 (355961)	2128.261 (355954)				
N:	653.279 (5781497)	679.052 (5781517)	711.252 (5781552)				
EL / Layer:	43.181 / 5	43.022 / 5	42.842 / 5				
Lot:	3301	3303	3305				
Other:	Sample: 14	Sample: 15	Sample: 16				
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 Wet Density (t/m³)	1.98	2.00	1.98				
Peak Converted Wet Density (t/m³)	1.94	1.98	1.92				
Compactive Effort	Standard	Standard	Standard				
Moisture Variation (%)	1.5 dry	0.5 dry	0.0				
Hilf Density Ratio (%)	102.0	101.0	103.0				





25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS03235

Accredited for compliance with ISO/IEC 17025

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: CG Request No.:

TRN: Lot No.:

IC MRA NATA

MI

Accreditation Number: Approved Signatory: M. Robinson

12719 (Team Leader)

Site Number: 12712 Date of Issue: 4/11/2021
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite
Material: Sandy Clay

Sample Data				
Sample ID	S21DS-11907			
Field Sample ID	1			
Date Tested	21/10/2021			
E:	2220.773 (356043)			
N:	674.473 (5781517)			
RL / Layer:	44.667 / 2			
Lot:	3227			
Other:	Sample: 26			
Field and Laboratory Data				
Depth of Test (mm)	175			
Depth of Layer (mm)	200			
AS Sieve Size (mm)	19.0			
Oversize Wet (%)	0			
Field Wet Density (t/m³)	2.04			
Peak Converted Wet Density (t/m³)	2.00			
Compactive Effort	Standard			
Moisture Variation (%)	1.0 dry			
Hilf Density Ratio (%)	102.5			

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25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS03692

Accredited for compliance with ISO/IEC 17025

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 32

Project No.: 3807351.032

Order No.: CG Request No.:

TRN: Lot No.:

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MIN

Accreditation Number: Approved Signatory: M. Robinson

12719 (Team Leader)

Site Number: 12712 Date of Issue: 16/12/2021
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite
Material: Silty Clay

Sample Data						
Sample ID	S21DS-13573	S21DS-13574				
Field Sample ID	1	2				
Date Tested	15/12/2021	15/12/2021				
E:	2156.882 (355980)	2164.876 (355993)				
N:	626.641 (5781469)	647.560 (5781473)				
RL / Layer:	43.444 / 5	43.671 / 5				
Lot:	3209	3210				
Other:	Sample 27	Sample 28				
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 Wet Density (t/m³)	2.00	2.08				
Peak Converted Wet Density (t/m³)	2.01	2.02				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	2.0 dry	2.5 dry				
Hilf Density Ratio (%)	99.0	103.0				

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25 Metcalf Street DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W21DS03693

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd

Address: PO Box 3131

AUBURN VIC 3123

Project: Meridian Estate - Stage 33

Project No.: 3807351.033

Order No.: **CG Request No.:**

TRN: Lot No.: Iac-MRA

NATA

Accredited for compliance with ISO/IEC 17025

Accreditation Number: Approved Signatory: M. Robinson

12719

(Team Leader)
Date of Issue: 29/03/2022 Site Number: 12712 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North

Client Request ID:

Specification Requirements: Minimum Hilf Density Ratio of 95% (+- 3% of OMC)

Field Test procedures: AS 1289.5.8.1 Laboratory Test procedures: AS 1289.5.7.1

Sampling Method: AS1289.1.2.1 Clause 6.4 (b)

Source: Onsite Material: Clay

Sample Data				
Sample ID	S21DS-13575	S21DS-13579		
Field Sample ID	1	5		
Date Tested	15/12/2021	15/12/2021		
E:	2142.921 (355963)	2156.053 (355970)		
N:	693.973 (5781536)	664.367 (5781509)		
RL / Layer:	43.318 / 6	43.595 / 6		
Lot:	3304	3301		
Other:	Sample 19	Sample 20		
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 Wet Density (t/m³)	2.15	1.98		
Peak Converted Wet Density (t/m³)	2.00	1.98		
Compactive Effort	Standard	Standard		
Moisture Variation (%)	3.0 dry	3.0 dry		
Hilf Density Ratio (%)	107.5	100.0		

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Appendix D: Controlled Fill certificate



CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No's: 3301 to 3305 and 3331 to 3334 Chadwick Geotechnics REF: 3807351.033.v1

Meridian Central Estate Stage 33

CLIENT : Grosvenor Lodge Pty Ltd DATE : 27 May 2022

PO Box 4136

DANDENONG SOUTH VIC 3164

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 it is able to 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 (1 September 2021 and was completed on 15 December 2021). 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 Border

Robert Barden Project Manager Timothy Chadwick Project Director

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