



# REPORT

## Level One Inspection and Testing Services

Meridian Estate Stage 21, Lots 2101 to 2136

Prepared for:

Grosvenor Lodge Pty Ltd

December / 2020

Our Ref: 3807351.021.v1

25 Metcalf Street, Dandenong South, Vic 3175, Australia  
[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)

## Document Control

Title: Level One Inspection and Testing Services					
Date	Version	Description	Prepared by:	Reviewed by:	Authorised by:
15-12-20	1	Level One report, 3807351.021.V1	RHB	RHB	TJC

### Distribution:

Grosvenor Lodge Pty Ltd

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## 1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics) was engaged by Grosvenor Lodge Pty Ltd, to provide Level 1 Geotechnical Inspection and Testing Authority (GITA) services for the earthworks within Stage 21 of the Meridian Estate in Clyde North.

## 2 Project details

The project included the preparation and filling of lot's 2101 to 2136. The specification required the earthworks to be completed under Level 1 GITA Supervision, that is, full-time Geotechnical Inspection and Testing of the earthworks. Chadwick Geotechnics were onsite for the duration of the earthworks program.

The location of the site is shown in figure 1 below.

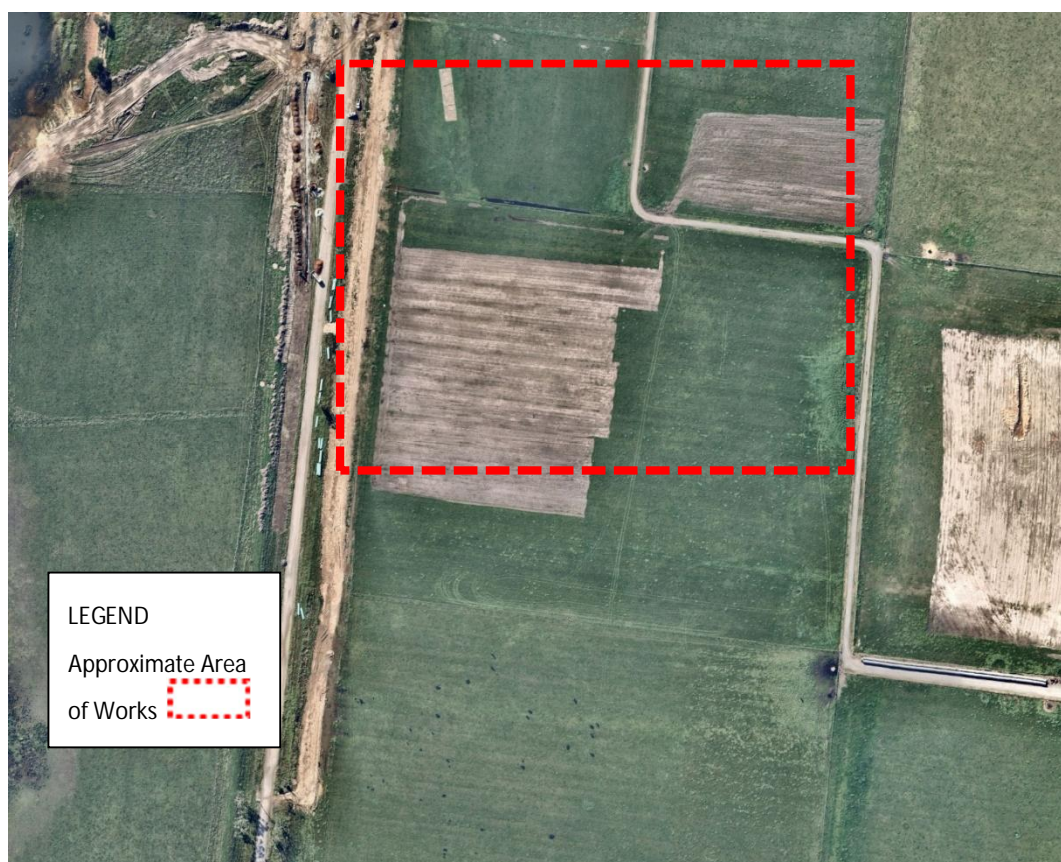


Figure 1: Approximate site location (*Image sourced from Nearmaps*)

### 3 Geology

Published information<sup>1</sup> shows that the site is primarily underlain by Red Bluff Sandstone (Nbr) (Miocene to Pliocene). Sandstone, conglomerate: pale yellow and brown; fine to coarse-grained, massive to well bedded; cross-bedded; local ironstone.

This area is mainly bordered by Quaternary Alluvium (Qa1) Gravel, sand, silt; alluvial floodplain deposits and Palaeozoic Murrindindi Supergroup (Sm) comprising of siltstone, sandstones and limestone, which may incur upon the primary geology.

### 4 Specification

A summary of the specification is shown below:

Compaction Requirement	95 % Standard Compaction
Moisture Requirement	+/- 3% of the soils Optimum Moisture Content

### 5 Inspection and testing

The inspection and testing of earthworks has 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 one project (large scale operation). Compaction control laboratory testing was undertaken in our NATA accredited laboratories in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes'.

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. No soft spots were encountered during the inspections, the area was found to be firm and free of vegetation and other deleterious material.

Full time Level 1 Inspection and testing of the filling operations commenced on 16 July 2020 and was completed on 10 September 2020. During this period Chadwick Geotechnics observed the earthworks at the times (as the filling works were intermittent) the earthworks contractor was placing fill. This included 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 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.

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 a handheld GPS unit. A site plan showing the field density test locations is provided in Appendix A.

<sup>1</sup>. VicGeo Earth Resources (<https://gsv.vic.gov.au>) Geological Unit (250k)

A total of thirty-three (33) tests were performed during the filling process.

The results show that two (2) tests failed to meet the specification requirements for the project. The earthworks contractor was advised of the tests that failed and the fill relevant to those areas was reworked, reconditioned, re-compacted and subsequently retested. The final results show the tests achieved the specification requirements for the project.

A summary table of Hilf density tests is provided in Appendix B and the laboratory test reports are provided in Appendix C.

## 6 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 sourced fill was considered to be natural and 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.

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".

## 7 Applicability

This report has been prepared for the exclusive use of our client Grosvenor Lodge 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 16 July 2020 and 10 September 2020. 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:



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.....

Robert Barden

Timothy Chadwick

Geotechnical Engineer

Project Director

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## Appendix A: Density Test Location Plan

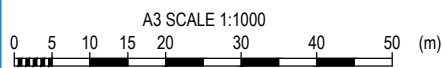
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**LEGEND**

 13989  
HILF DENSITY TEST LOCATION

**NOTES:**  
 1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 06/09/2020.  
 2. BASE PLAN PROVIDED BY BEVERIDGE WILLIAMS. DRAWING REFERENCE: 1801767-21-BASE 200908 DATE RECEIVED: 23/11/2020.



PROJECT No. 3807351.021		
DESIGNED	RBR	Nov.20
DRAWN	KMJA	Nov.20
CHECKED		
APPROVED		DATE

CLIENT	GROSVENOR LODGE PTY LTD	
PROJECT	MERIDIAN ESTATE - STAGE 21	
TITLE	LEVEL ONE HILF DENSITY TESTING HILF DENSITY TEST PLAN	
SCALE (A3)	1:1000	FIG No. FIGURE 01
REV	1	

## Appendix B: Table of field density results

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Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Lift	Density Ratio HILF test (≥95%)	Moisture Variation From +/- to 3% wet	Pass / Fail	Remarks
HDR:W20DS03614	13181	16/07/2020	1	355406.280	5781602.079	33.805	92	1.5 wet	Fail	See Retest 13601
HDR:W20DS03614	13182	16/07/2020	2	355449.708	5781595.212	34.141	93.5	OMC	Fail	See Retest 13602
HDR:W20DS03732	13601	21/07/2020	1	355406.329	5781601.718	33.812	98.5	2.0 wet	Pass	Retest of 13181
HDR:W20DS03732	13602	21/07/2020	2	355451.764	5781597.082	34.149	99	0.5 wet	Pass	Retest of 13182
HDR:W20DS03771	13737	22/07/2020	1	355381.834	5781625.211	33.63	100.5	0.5 dry	Pass	
HDR:W20DS03771	13738	22/07/2020	2	355425.659	5781619.653	33.896	99	OMC	Pass	
HDR:W20DS03805	13857	23/07/2020	1	355351.573	5781635.721	33.894	96.5	0.5 wet	Pass	
HDR:W20DS03805	13858	23/07/2020	2	355414.156	5781619.451	33.931	100.5	OMC	Pass	
HDR:W20DS03844	13989	24/07/2020	1	355342.442	5781608.213	33.582	97.5	OMC	Pass	
HDR:W20DS03844	13990	24/07/2020	2	355371.222	5781634.069	34.118	97.5	OMC	Pass	
HDR:W20DS03844	13991	24/07/2020	3	355441.759	5781614.727	34.209	100	OMC	Pass	
HDR:W20DS03969	14451	28/07/2020	1	355408.281	5781613.905	33.974	99.5	0.5 dry	Pass	
HDR:W20DS03969	14452	28/07/2020	2	355421.067	5781643.145	33.903	99.5	0.5 dry	Pass	
HDR:W20DS03969	14453	28/07/2020	3	355432.249	5781691.191	34.808	98	OMC	Pass	
HDR:W20DS03969	14454	28/07/2020	4	355455.806	5781656.502	34.502	101	0.5 dry	Pass	
HDR:W20DS03983	14485	29/07/2020	1	355407.374	5781671.395	34.381	98.5	0.5 dry	Pass	
HDR:W20DS03983	14486	29/07/2020	2	355385.691	5781690.780	34.668	97.5	0.5 wet	Pass	
HDR:W20DS03983	14487	29/07/2020	3	355368.777	5781655.137	34.035	99	OMC	Pass	

Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Lift	Density Ratio HILF test (≥95%)	Moisture Variation From +/- to 3% wet	Pass / Fail	Remarks
HDR:W20DS04032	14656	30/07/2020	1	355351.823	5781683.392	34.677	104	0.5 wet	Pass	
HDR:W20DS04032	14657	30/07/2020	2	355451.136	5781652.495	34.499	99	OMC	Pass	
HDR:W20DS04032	14658	30/07/2020	3	355448.685	5781685.041	34.935	98.5	OMC	Pass	
HDR:W20DS04036	14704	31/07/2020	1	355417.889	5781688.636	34.833	98.5	OMC	Pass	
HDR:W20DS04036	14705	31/07/2020	2	355413.861	5781657.769	34.292	97.5	OMC	Pass	
HDR:W20DS04050	14760	1/08/2020	1	355376.767	5781671.640	34.511	98.5	OMC	Pass	
HDR:W20DS04050	14761	1/08/2020	2	355354.390	5781655.903	34.318	100.5	OMC	Pass	
HDR:W20DS04091	14912	3/08/2020	1	355431.831	5781638.811	34.415	98.5	OMC	Pass	
HDR:W20DS04091	14913	3/08/2020	2	355439.706	5781671.433	34.866	99.5	OMC	Pass	
HDR:W20DS04091	14914	3/08/2020	3	355460.722	5781669.302	34.875	100	0.5 wet	Pass	
HDR:W20DS04091	14915	3/08/2020	4	355377.220	5781644.226	34.371	99	OMC	Pass	
HDR:W20DS04091	14916	3/08/2020	5	355353.575	5781650.400	34.307	99.5	OMC	Pass	
HDR:W20DS04838	17688	5/09/2020	1	355469.576	5781678.964	35.039	102.5	2.0 dry	Pass	
HDR:W20DS05021	18239	9/09/2020	1	355482.904	5781648.013	34.701	100.5	2.0 dry	Pass	
HDR:W20DS05083	18425	10/09/2020	1	355472.315	5781639.573	34.675	101	2.5 dry	Pass	
										No further tests

## Appendix C      NATA endorsed laboratory reports

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**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:W20DS03614**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards.

Approved Signatory: M. Robinson  
 (Team Leader)  
 Date of Issue: 21/07/2020

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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	S20DS-13181	S20DS-13182			
Field Sample ID	1	2			
Date Tested	16/07/2020	16/07/2020			
Lot No	2131	2134			
E	1583.020	1626.448			
N	763.058	756.191			
RL	33.805	34.141			

## Field and Laboratory Data

Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.97	1.97			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.14	2.10			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.5 wet	0.0			
Hilf Density Ratio (%)	<b>92.0</b>	<b>93.5</b>			

## Comments



**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:W20DS03732**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Accreditation No. 12719

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Approved Signatory: J. Lamont  
 (Dandenong Laboratory Manager)  
 Date of Issue: 20/11/2020

12712

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## Sample Details

**Location:** Retests  
**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	S20DS-13601	S20DS-13602			
Field Sample ID	1	2			
Date Tested	21/07/2020	21/07/2020			
E:	1583.069	1628.504			
N:	762.697	758.061			
EL:	33.812	34.149			
Lot:	2131	2134			

## Field and Laboratory Data

Depth of Test (mm)	75	75			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.08	2.13			
Peak Converted Wet Density (t/m³)	2.11	2.16			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 wet	0.5 wet			
Hilf Density Ratio (%)	<b>98.5</b>	<b>99.0</b>			

## Comments





**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:W20DS03771**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Accreditation No. 12719

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 12712 Date of Issue: 5/08/2020  
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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:** Clay

## Sample Data

Sample ID	S20DS-13737	S20DS-13738			
Field Sample ID	1	2			
Date Tested	22/07/2020	22/07/2020			
E:	1558.574	1602.399			
N:	786.190	780.632			
EL:	33.630	33.896			
Lot:	2109	2132			
Layer:	1	1			

## Field and Laboratory Data

Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.13	2.09			
Peak Converted Wet Density (t/m³)	2.12	2.12			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 dry	0.0			
Hilf Density Ratio (%)	<b>100.5</b>	<b>99.0</b>			

## Comments



**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:W20DS03805**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 5/08/2020

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## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:**  
**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	S20DS-13857	S20DS-13858			
Field Sample ID	1	2			
Date Tested	23/07/2020	23/07/2020			
E:	1528.313	1590.896			
N:	796.700	780.430			
EL:	33.894	33.931			
Lot:	2104	2130			
Layer:	2	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)	2.06	2.12			
Peak Converted Wet Density (t/m³)	2.14	2.11			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	0.0			
<b>Hilf Density Ratio (%)</b>	<b>96.5</b>	<b>100.5</b>			

## Comments



**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:W20DS03844**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

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 - Testing



Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 5/08/2020  
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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:** Clay

## Sample Data

Sample ID	S20DS-13989	S20DS-13990	S20DS-13991
Field Sample ID	1	2	3
Date Tested	24/07/2020	24/07/2020	24/07/2020
E:	1519.182	1547.962	1618.499
N:	769.192	795.048	775.706
EL:	33.582	34.118	34.209
Lot:	2106	2110	2133
Layer:	4	3	3

## 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/m <sup>3</sup> )	2.07	2.05	2.08
Peak Converted Wet Density (t/m <sup>3</sup> )	2.13	2.10	2.08
Compactive Effort	Standard	Standard	Standard
Moisture Variation (%)	0.0	0.0	0.0
<b>Hilf Density Ratio (%)</b>	<b>97.5</b>	<b>97.5</b>	<b>100.0</b>

## Comments



**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:W20DS03969**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 5/08/2020  
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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:** Clay

## Sample Data

Sample ID	S20DS-14451	S20DS-14452	S20DS-14453	S20DS-14454
Field Sample ID	1	2	3	4
Date Tested	28/07/2020	28/07/2020	28/07/2020	28/07/2020
E:	1585.021	1597.807	1608.989	1632.546
N:	774.884	804.124	852.170	817.481
EL:	33.974	33.903	34.808	34.502
Lot:	2130	2118	2119	2127

## 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)	2.12	2.05	2.05	2.03
Peak Converted Wet Density (t/m³)	2.12	2.06	2.08	2.01
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.5 dry	0.5 dry	0.0	0.5 dry
Hilf Density Ratio (%)	<b>99.5</b>	<b>99.5</b>	<b>98.0</b>	<b>101.0</b>

## Comments



**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:W20DS03983**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 12712 Date of Issue: 5/08/2020  
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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:** Clay

## Sample Data

Sample ID	S20DS-14485	S20DS-14486	S20DS-14487			
Field Sample ID	1	2	3			
Date Tested	29/07/2020	29/07/2020	29/07/2020			
E:	1584.114	1562.431	1545.517			
N:	832.374	851.759	816.116			
EL:	34.381	34.668	34.035			
Lot:	2116	2114	2112			
Layer:	1	1	1			

## 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)	2.07	2.02	1.97			
Peak Converted Wet Density (t/m³)	2.10	2.07	1.99			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	0.5 dry	0.5 wet	0.0			
Hilf Density Ratio (%)	<b>98.5</b>	<b>97.5</b>	<b>99.0</b>			

## Comments



**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:W20DS04032**


**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 12712 Date of Issue: 5/08/2020  
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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:** Clay

## Sample Data

Sample ID	S20DS-14656	S20DS-14657	S20DS-14658			
Field Sample ID	1	2	3			
Date Tested	30/07/2020	30/07/2020	30/07/2020			
E:	1528.563	1627.876	1625.425			
N:	844.371	813.474	846.020			
EL:	34.677	34.499	34.935			
Lot:	2101	2127	2120			
Layer:	1	2	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 Wet Density (t/m³)	1.98	2.02	2.03			
Peak Converted Wet Density (t/m³)	1.90	2.04	2.06			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	0.5 wet	0.0	0.0			
Hilf Density Ratio (%)	<b>104.0</b>	<b>99.0</b>	<b>98.5</b>			

## Comments



Dandenong South  
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 25 Metcalf Street  
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Ph: + 61 3 8796 7900  
 Fax: +61 3 9706 9431

**Report No: HDR:W20DS04036**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 5/08/2020  
 12712  
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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:** Clay

## Sample Data

Sample ID	S20DS-14704	S20DS-14705			
Field Sample ID	1	2			
Date Tested	31/07/2020	31/07/2020			
E:	1594.629	1590.601			
N:	849.615	818.748			
EL:	34.833	34.292			
Lot:	2115	2117			
Layer:	2	2			

## Field and Laboratory Data

Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.06	2.12			
Peak Converted Wet Density (t/m³)	2.08	2.17			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	<b>98.5</b>	<b>97.5</b>			

## Comments



**Dandenong South**  
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 25 Metcalf Street  
 DANDENONG SOUTH, VIC 3175

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

**Report No: HDR:W20DS04050**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 5/08/2020

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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:** Clay

## Sample Data

Sample ID	S20DS-14760	S20DS-14761			
Field Sample ID	1	2			
Date Tested	1/08/2020	1/08/2020			
E:	1553.507	1531.130			
N:	832.619	816.882			
EL:	34.511	34.318			
Lot:	2113	2102			
Layer:	2	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/m <sup>3</sup> )	1.95	1.98			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.98	1.96			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	<b>98.5</b>	<b>100.5</b>			

## Comments





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

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

**Report No: HDR:W20DS04091**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 24/08/2020

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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:** Clay

## Sample Data

Sample ID	S20DS-14912	S20DS-14913	S20DS-14914	S20DS-14915	S20DS-14916
Field Sample ID	1	2	3	4	5
Date Tested	3/08/2020	3/08/2020	3/08/2020	3/08/2020	3/08/2020
E:	1608.571	1616.446	1637.462	1553.960	1530.315
N:	799.790	832.412	830.281	805.205	811.379
EL:	34.415	34.866	34.875	34.371	34.307
Lot:	2129	2119	2121	2111	2103
Layer:	3	3	3	3	3

## 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)	1.99	2.06	2.07	2.05	2.03
Peak Converted Wet Density (t/m³)	2.02	2.07	2.07	2.08	2.04
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	0.0	0.5 wet	0.0	0.0
Hilf Density Ratio (%)	<b>98.5</b>	<b>99.5</b>	<b>100.0</b>	<b>99.0</b>	<b>99.5</b>

## Comments



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

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

**Report No: HDR:W20DS04838**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Accreditation No. 12719

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Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 17/09/2020

12712

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## 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:** Clay

## Sample Data

Sample ID	S20DS-17688				
Field Sample ID	1				
Date Tested	5/09/2020				
E:	1646.316				
N:	839.943				
EL	35.039				
Lot:	2121				
Layer:	1				

## Field and Laboratory Data

Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	1.99				
Peak Converted Wet Density (t/m³)	1.94				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	<b>102.5</b>				

## Comments



**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:W20DS05021**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Accreditation No. 12719

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 Date of Issue: 2/10/2020

12712

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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:** Clay

## Sample Data

Sample ID	S20DS-18239				
Field Sample ID	1				
Date Tested	9/09/2020				
E:	1659.644				
N:	808.992				
EL:	34.701				
Layer:	1				

## Field and Laboratory Data

Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	1.94				
Peak Converted Wet Density (t/m³)	1.93				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	<b>100.5</b>				

## Comments



**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:W20DS05083**



**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 21  
**Project No.:** 3807351.021  
**Order No.:**  
**TRN:**

**CG Request No.:**  
**Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Accreditation No. 12719

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory: M. Longfield  
 (Senior Technician)  
 12712 Date of Issue: 2/10/2020  
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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:** Clay

## Sample Data

Sample ID	S20DS-18425				
Field Sample ID	1				
Date Tested	10/09/2020				
E:	1649.055				
N:	800.552				
EL:	34.675				
Lot:	2125				
Layer:	1				

## Field and Laboratory Data

Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m³)	1.94				
Peak Converted Wet Density (t/m³)	1.92				
Compactive Effort	Standard				
Moisture Variation (%)	2.5 dry				
Hilf Density Ratio (%)	<b>101.0</b>				

## Comments

## Appendix D: Controlled fill certificates

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2101 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
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 top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (16 July 2020 and 10 September 2020) 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

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2102 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
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 top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (16 July 2020 and 10 September 2020) 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

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2103  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

---

### 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 top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (16 July 2020 and 10 September 2020) 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

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2104 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
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 top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (16 July 2020 and 10 September 2020) 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

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2105 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
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 top soil).

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2106 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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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 top soil).

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2107  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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### 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

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2108 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2109 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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

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Robert Barden  
Geotechnical Engineer

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2110 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2111 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2112  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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### 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

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Robert Barden  
Geotechnical Engineer

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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2113 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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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.

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Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2114 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Robert Barden  
Geotechnical Engineer

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2115  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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### SUMMARY

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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2116 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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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.

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LIMITATIONS

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Geotechnical Engineer

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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2117 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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SUMMARY

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2118  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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### SUMMARY

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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2119 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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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.

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Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2120 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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

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CHADWICK GEOTECHNICS PTY LTD

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2121 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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.

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2122 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2123 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2124  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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### 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.

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2125  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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### 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.

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Geotechnical Engineer

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2126 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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Robert Barden  
Geotechnical Engineer

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Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2127 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Robert Barden  
Geotechnical Engineer

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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2128  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2129 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2130 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
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DANDENONG SOUTH VIC 3164

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2131  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2132 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
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DANDENONG SOUTH VIC 3164

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2133 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
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DANDENONG SOUTH VIC 3164

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2134 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2135  
Meridian Estate Stage 21  
Chadwick Geotechnics REF: 3807351.021.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : December / 2020

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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 top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (16 July 2020 and 10 September 2020) 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

A handwritten signature in black ink that reads 'Robert Barden'.

Robert Barden  
Geotechnical Engineer

A handwritten signature in blue ink that reads 'Timothy Chadwick'.

Timothy Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 2136 Chadwick Geotechnics REF: 3807351.021.v1  
Meridian Estate Stage 21

CLIENT : Grosvenor Lodge Pty Ltd DATE : December / 2020  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### 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 top soil).

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