



# REPORT

## Level One Inspection and Testing Services

Meridian Central Estate  
Stage 20A, Lots 1 to 24

Prepared for:

Grosvenor Lodge Pty Ltd

February 2021

Our Ref: 3807351.020A.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:
12-02-2021	1	Level One report, 3807351.020A	RHB	RHB	TJC

### Distribution:

Grosvenor Lodge Pty Ltd

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Chadwick Geotechnics Pty Ltd (FILE)

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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 services for the earthworks within Stage 20A of the Meridian Central Estate in Clyde North.

## 2 Project details

The project included the preparation and filling of lot's 1 to 24. 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.

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

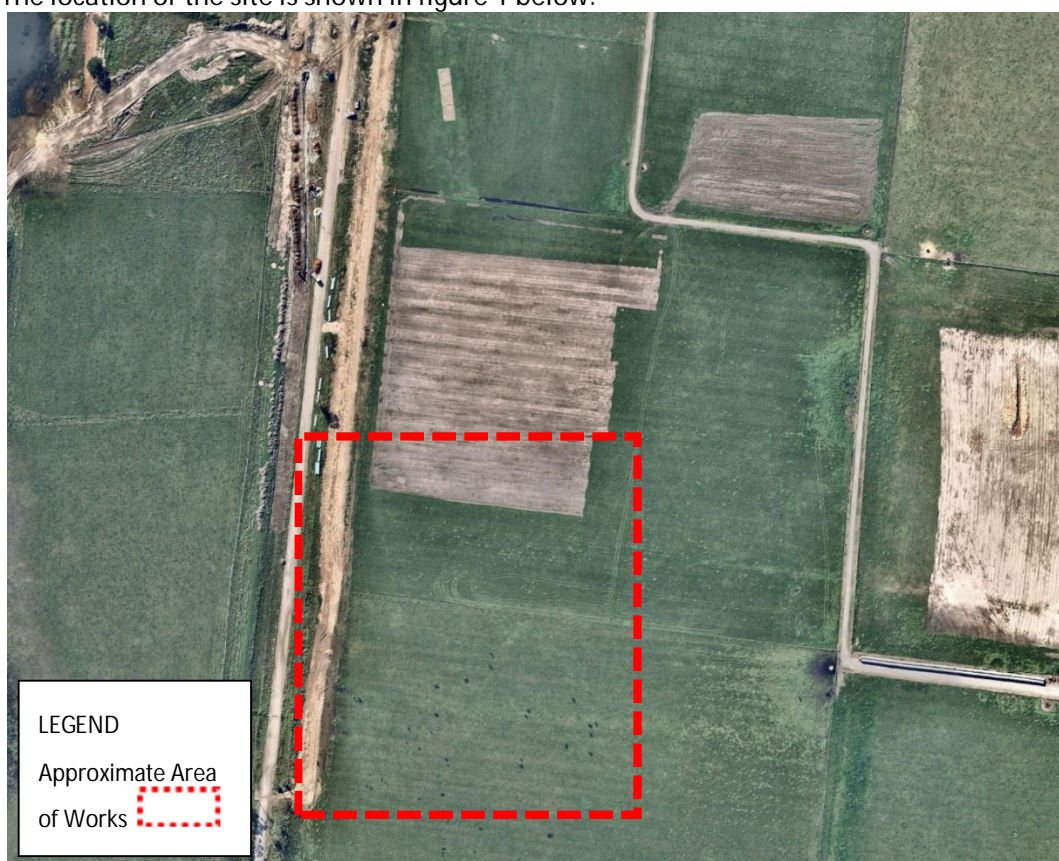


Figure 1: Approximate site location (*Image sourced from Nearmaps*)

## 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.

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

## 4 Specification

A summary of the specification is shown below:

Compaction Requirement	98 % Standard Compaction
------------------------	--------------------------

## 5 Inspection and testing

The inspection and testing of earthworks have been carried out in accordance with AS3798-2007, 'Guidelines on earthworks for commercial and residential developments', with a frequency of field density tests as per 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 Geotechnical Inspection and Testing of the filling operations commenced on 18 July 2020 and was completed on 16 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), 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.

A total of twelve (12) tests were performed during the filling process.

The results show that one (1) test failed to meet the specification requirements for the project. The earthworks contractor was advised of the test that failed and the fill relevant to the area 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 earthwork's 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 18 July 2020 to 16 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:



.....  
Robert Barden

.....  
Timothy Chadwick

Geotechnical Engineer

Project Director

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## Appendix A: Density Test Location Plan

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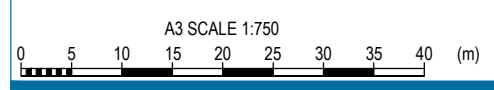




**LEGEND**

 S20DS-13412  
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: 1801767-20-BASE-201008. DATE RECEIVED: 27/11/2020.



PROJECT No. 3807351.020A		
DESIGNED	RBR	Nov.20
DRAWN	KMJA	Nov.20
CHECKED		
APPROVED		DATE

CLIENT	GROSVENOR LODGE PTY LTD
PROJECT	MERIDIAN ESTATE - STATE 20A
TITLE	LEVEL ONE HILF DENSITY TESTING HILF DENSITY TEST PLAN
SCALE (A3)	1:750
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]	RL (m)	Layer	Density Ratio HILF test	Moisture Variation	Pass / Fail	Remarks
HDR:W20DS03679	S20DS-13412	18/07/2020	1	355334	5781468	32.343		99	0.5 wet	Pass	
HDR:W20DS03679	S20DS-13413	18/07/2020	2	355333	5781458	32.13		101	OMC	Pass	
HDR:W20DS03679	S20DS-13414	18/07/2020	3	355339	5781444	32.223		103.5	0.5 dry	Pass	
HDR:W20DS03679	S20DS-13415	18/07/2020	4	355356	5781414	32.291		97.5	OMC	Pass	See Retest 18860
HDR:W20DS03679	S20DS-13416	18/07/2020	5	355375	5781415	32.637		102.5	0.5 dry	Pass	
HDR:W20DS03679	S20DS-13417	18/07/2020	6	355373	5781451	32.544		101	OMC	Pass	
HDR:W20DS03751	S20DS-13665	21/07/2020	1	355381	5781434	32.742	FSL	101	OMC	Pass	
HDR:W20DS03751	S20DS-13666	21/07/2020	2	355354	5781435	32.391	FSL	100.5	0.5 dry	Pass	
HDR:W20DS03770	S20DS-13736	22/07/2020	1	355328	5781432	32.102	FSL	98.5	0.5 dry	Pass	
HDR:W20DS05097	S20DS-18471	11/09/2020	1	355330	5781444	32.374	Layer 4	101.5	0.5 dry	Pass	
HDR:W20DS05174	S20DS-18764	15/09/2020	1	355335	5781457	32.779	FSL	99.5	0.5 wet	Pass	
HDR:W20DS05207	S20DS-18860	16/09/2020	1	355353	5781412	32.704	FSL	101	0.5 dry	Pass	Retest of 13415
											No Further testing

No Further Testing

## Appendix C    NATA endorsed laboratory reports

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**Report No: HDR:W20DS03679**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 20A  
**Project No.:** 3807351.020A  
**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  
 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	S20DS-13412	S20DS-13413	S20DS-13414	S20DS-13415	S20DS-13416	S20DS-13417
Field Sample ID	1	2	3	4	5	6
Date Tested	18/07/2020	18/07/2020	18/07/2020	18/07/2020	18/07/2020	18/07/2020
E	1511.084	1510.105	1515.717	1532.751	1551.677	1550.084
N	628.787	618.536	605.364	574.591	576.352	611.641
RL	32.343	32.130	32.223	32.291	32.637	32.544

## Field and Laboratory Data

Depth of Test (mm)	175	175	175	175	175	175
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0	0	0
Field Wet Density (t/m <sup>3</sup> )	2.05	2.11	2.15	1.97	2.13	2.15
Peak Converted Wet Density (t/m <sup>3</sup> )	2.07	2.09	2.08	2.02	2.08	2.12
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.5 wet	0.0	0.5 dry	0.0	0.5 dry	0.0
Hilf Density Ratio (%)	<b>99.0</b>	<b>101.0</b>	<b>103.5</b>	<b>97.5</b>	<b>102.5</b>	<b>101.0</b>

## Comments



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**Report No: HDR:W20DS03751**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 20A  
**Project No.:** 3807351.020A  
**Order No.:** **CG Request No.:**  
**TRN:** **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: 5/08/2020  
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## Sample Details

**Location:** Hardys Road  
**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-13665	S20DS-13666			
Field Sample ID	1	2			
Date Tested	21/07/2020	21/07/2020			
E:	1557.943	1530.534			
N:	594.592	596.390			
EL:	32.742	32.391			
	FSL	FSL			

## Field and Laboratory Data

Depth of Test (mm)	175	175			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.09	2.13			
Peak Converted Wet Density (t/m³)	2.07	2.11			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.5 dry			
Hilf Density Ratio (%)	<b>101.0</b>	<b>100.5</b>			

## Comments



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**Report No: HDR:W20DS03770**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 20A  
**Project No.:** 3807351.020A  
**Order No.:** **CG Request No.:**  
**TRN:** **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:** Hardys Road  
**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-13736				
Field Sample ID	1				
Date Tested	22/07/2020				
E:	1504.495				
N:	593.112				
EL:	32.102				
	FSL				

## Field and Laboratory Data

Depth of Test (mm)	175				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0				
Field Wet Density (t/m <sup>3</sup> )	2.05				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.08				
Compactive Effort	Standard				
Moisture Variation (%)	0.5 dry				
Hilf Density Ratio (%)	<b>98.5</b>				

## Comments



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**Report No: HDR:W20DS05097**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 20A  
**Project No.:** 3807351.020A  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

Approved Signatory: B. Taseski  
 (Senior Technician)  
 Date of Issue: 26/11/2020  
 12712  
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## 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:** Gravelly Clay

## Sample Data

<b>Sample ID</b>	S20DS-18471				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	11/09/2020				
<b>Lot No:</b>	Super Lot 7				
<b>E:</b>	1506.389				
<b>N:</b>	604.615				
<b>Elv:</b>	32.374				
	Layer 4				

## Field and Laboratory Data

<b>Depth of Test (mm)</b>	175				
<b>Depth of Layer (mm)</b>	200				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Oversize Wet (%)</b>	0				
<b>Field Wet Density (t/m³)</b>	2.05				
<b>Peak Converted Wet Density (t/m³)</b>	2.02				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	0.5 dry				
<b>Hilf Density Ratio (%)</b>	<b>101.5</b>				

## Comments





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**Report No: HDR:W20DS05174**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 20A  
**Project No.:** 3807351.020A  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

Accredited for compliance with ISO/IEC 17025  
 - Testing

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Approved Signatory: B. Taseski  
 (Senior Technician)  
 Date of Issue: 26/11/2020  
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## 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:** Clay

## Sample Data

<b>Sample ID</b>	S20DS-18764				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	15/09/2020				
<b>E:</b>	1511.452				
<b>N:</b>	618.375				
<b>EL:</b>	32.779				
<b>Lot:</b>	Super Lot 4				
<b>Layer:</b>	FSL				

## Field and Laboratory Data

<b>Depth of Test (mm)</b>	175				
<b>Depth of Layer (mm)</b>	200				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Oversize Wet (%)</b>	0				
<b>Field Wet Density (t/m³)</b>	1.97				
<b>Peak Converted Wet Density (t/m³)</b>	1.98				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	0.5 wet				
<b>Hilf Density Ratio (%)</b>	<b>99.5</b>				

## Comments



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**Report No: HDR:W20DS05207**

**Issue No: 1**

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 20A  
**Project No.:** 3807351.020A  
**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: B. Taseski  
 (Senior Technician)  
 Date of Issue: 26/11/2020  
 12712

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## 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:** Clay

## Sample Data

<b>Sample ID</b>	S20DS-18860				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	16/09/2020				
<b>E:</b>	1529.529				
<b>N:</b>	573.395				
<b>EL:</b>	32.704				
<b>Lot:</b>	Super Lot 13				
<b>Layer:</b>	FSL				

## Field and Laboratory Data

<b>Depth of Test (mm)</b>	175				
<b>Depth of Layer (mm)</b>	200				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Oversize Wet (%)</b>	0				
<b>Field Wet Density (t/m³)</b>	2.07				
<b>Peak Converted Wet Density (t/m³)</b>	2.06				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	0.5 dry				
<b>Hilf Density Ratio (%)</b>	<b>101.0</b>				

## Comments

## Appendix D: Controlled fill certificates

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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 (18 July 2020 to 16 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: 2  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

---

### 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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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: 3  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

---

### 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 98% 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).

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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: 4  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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: 5  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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: 6  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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: 7  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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: 8  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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: 9  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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: 10 Chadwick Geotechnics REF: 3807351.020A.v1  
Meridian Central Estate Stage 20A

CLIENT : Grosvenor Lodge Pty Ltd DATE : February 2021  
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 98% of HILF Density (AS1289.5.7.1) to be achieved.

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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: 11  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% of HILF Density (AS1289.5.7.1) to be achieved.

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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: 12  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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: 13 Chadwick Geotechnics REF: 3807351.020A.v1  
Meridian Central Estate Stage 20A

CLIENT : Grosvenor Lodge Pty Ltd DATE : February 2021  
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 98% 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: 14 Chadwick Geotechnics REF: 3807351.020A.v1  
Meridian Central Estate Stage 20A

CLIENT : Grosvenor Lodge Pty Ltd DATE : February 2021  
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 98% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 15  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 16  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% of HILF Density (AS1289.5.7.1) to be achieved.

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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: 17  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% 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 (18 July 2020 to 16 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: 18  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% of HILF Density (AS1289.5.7.1) to be achieved.

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 19  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 20  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 21  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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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 98% of HILF Density (AS1289.5.7.1) to be achieved.

### LIMITATIONS

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Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 22 Chadwick Geotechnics REF: 3807351.020A.v1  
Meridian Central Estate Stage 20A

CLIENT : Grosvenor Lodge Pty Ltd DATE : February 2021  
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 98% of HILF Density (AS1289.5.7.1) to be achieved.

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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: 23 Chadwick Geotechnics REF: 3807351.020A.v1  
Meridian Central Estate Stage 20A

CLIENT : Grosvenor Lodge Pty Ltd DATE : February 2021  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 24  
Meridian Central Estate Stage 20A  
Chadwick Geotechnics REF: 3807351.020A.v1

CLIENT : Grosvenor Lodge Pty Ltd  
PO Box 4136  
DANDENONG SOUTH VIC 3164  
DATE : February 2021

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### SUMMARY

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