



# REPORT

## Level One Inspection and Testing Services

Meridian Estate Stage 10, Clyde North, Lots  
1001 to 1075

Prepared for:

Grosvenor Lodge Pty Ltd

May 2018

Our Ref: 3807351.010 Stage 10.v1

## Document Control

Title: Level One Inspection and Testing Services					
Date	Version	Description	Prepared by:	Reviewed by:	Authorised by:
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Grosvenor Lodge Pty Ltd

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 Inspection and Testing services for the earthworks within Stage 10 of the Meridian Estate in Clyde North.

## 2 Project details

The project included the preparation and filling of lot's 1001 to 1075. The specification required the earthworks to be completed under Level 1 Inspection that is, full-time Inspection and Testing of the earthworks. Chadwick Geotechnics were onsite for the duration of the earthworks program.

The approximate 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 underlain by various geologies listed as follows;

- Quaternary Age Unnamed dune deposits Formation (Qd1) comprising of sand, clay and calcareous sand.
- Quaternary Age Unnamed swamp and lake deposits Formation (Qm1) comprising of silt and clay.
- Palaeozoic Age Murrindindi Supergroup (Sm) comprising of mudstone and sandstone

Neogene Age Baxter Sandstone Formation (Nxx) comprising of sandstone, conglomerate, siltstone and ironstone.

### 4 Specification

A summary of the specification is shown below:

Compaction Requirement	95 % Standard Compaction
------------------------	--------------------------

### 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 Dandenong South laboratory 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, and 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 the 15<sup>th</sup> November 2017 and was completed on the 18<sup>th</sup> April 2018. During this period Chadwick Geotechnics observed the filling works including the supply of material, conditioning of material (moisture conditioning and oversize removal), placement and compaction of the fill.

All fill material was placed in lift sequences and the Chadwick Geotechnics verified that the surface of the stripped area and additional lifts were 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 nuclear density 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 ninety six (96) tests were performed during the filling process.

<sup>1</sup> BIBBY, L.M., 2004. Simplified 1: 4 000 000 Geology of Victoria. Geological Survey of Victoria Special Publication. GeoScience Victoria.

The results show that nine (9) 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 and Fill Certificates are provided in Appendix C and D.

## 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.

## 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 conditions present in, factors affecting the soil at the time of the inspections, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. 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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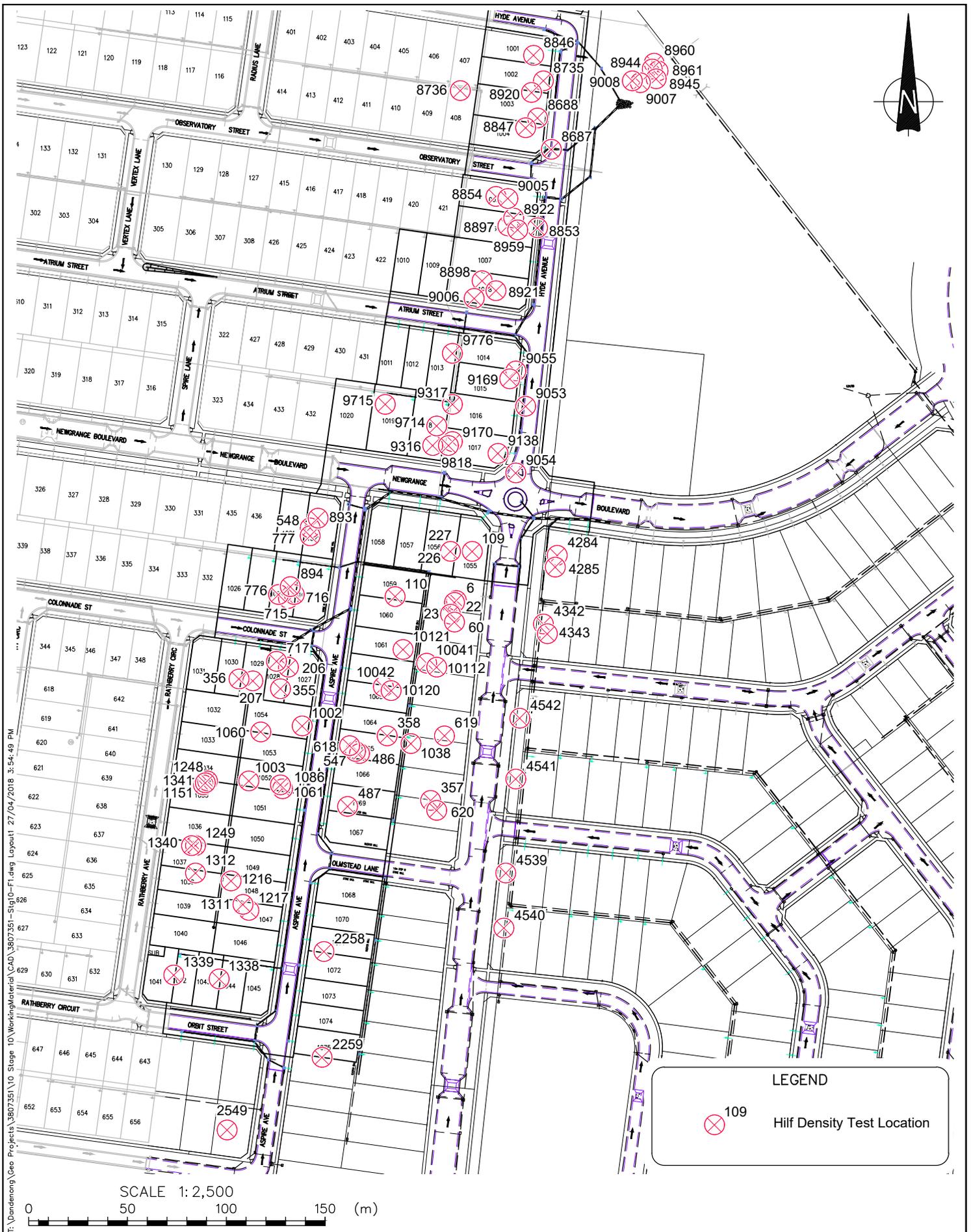
[www.chadwickgeotechnics.com.au](http://www.chadwickgeotechnics.com.au)

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## Appendix A: Density Test Location Plan

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**CHADWICK GEOTECHNICS**  
 25 Metcalf Street  
 Dandenong South, Victoria, 3175  
 Ph: (03) 8796 7900  
 www.chadwickt.com.au

DRAWN	KAH	Apr.18
DRAFTING CHECKED		
APPROVED		
CADFILE :	\\3807351-Stg10-F1.dwg	
SCALES (AT A4 SIZE)	AS SHOWN	
PROJECT No.	3807351	

**GROSVENOR LODGE PTY LTD**  
 LEVEL ONE INSPECTION AND TESTING  
 MERIDIAN ESTATE STAGE 10  
 Hilf Density Test Location Plan

FIG. No. **Figure 1** REV. **0**

## Appendix B: Table of field density results

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# Hilf Summary Table

Chadwick Geotechnics  
25 Metcalf Street  
Dandenong South VIC 3175

## 3807351.010 Meridian Estate Stage 10

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

Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W17DS02351	8687	15/11/2017	1	355399	5782648	2	101	0.5 dry	Pass	
HDR:W17DS02351	8688	15/11/2017	2	355392	5782664	1	96.5	1.5 dry	Pass	
HDR:W17DS02362	8735	16/11/2017	1	355395	5782683	3	94	0 wet	Fail	See Retest 8920
HDR:W17DS02362	8736	16/11/2017	2	355353	5782678	4	98.5	0 dry	Pass	
HDR:W17DS02381	8846	17/11/2017	1	355390	5782696	5	103.5	2 dry	Pass	
HDR:W17DS02381	8847	17/11/2017	2	355386	5782659	6	96.5	0.5 wet	Pass	
HDR:W17DS02384	8853	18/11/2017	1	355392	5782608	1	99	0.5 wet	Pass	
HDR:W17DS02384	8854	18/11/2017	2	355371	5782624	1	97	0.5 wet	Pass	
HDR:W17DS02401	8897	20/11/2017	1	355377	5782609	2	96.5	1.5 wet	Pass	
HDR:W17DS02401	8898	20/11/2017	2	355364	5782581	1	94.5	0.5 wet	Fail	See Retest 9006
HDR:W17DS02410	8920	21/11/2017	1	355389	5782677	3	104	2.5 dry	Pass	Retest of 8735
HDR:W17DS02410	8921	21/11/2017	2	355371	5782576	2	98.5	0.5 dry	Pass	
HDR:W17DS02410	8922	21/11/2017	3	355380	5782613	4	100.5	2.5 dry	Pass	
HDR:W17DS02428	8960	22/11/2017	1	355451	5782692		97.5	2.5 wet	Pass	
HDR:W17DS02428	8961	22/11/2017	2	355453	5782688		104	1.5 dry	Pass	
HDR:W17DS02427	8959	22/11/2017	1	355382	5782607	5	97	2 dry	Pass	
HDR:W17DS02419	8944	22/11/2017	1	355450	5782689	1	96.5	1.5 dry	Pass	
HDR:W17DS02419	8945	22/11/2017	2	355452	5782684	1	96.5	1.5 wet	Pass	
HDR:W17DS02442	9005	23/11/2017	1	355377	5782623		96	0 wet	Pass	
HDR:W17DS02442	9006	23/11/2017	2	355360	5782572		100	2 dry	Pass	Retest of 8898
HDR:W17DS02442	9007	23/11/2017	3	355444	5782682	Wetlands	100.5	2.5 dry	Pass	
HDR:W17DS02442	9008	23/11/2017	4	355440	5782683	Wetlands	99	2.5 dry	Pass	
HDR:W17DS02458	9053	24/11/2017	1	355386	5782517	1	96.5	2 dry	Pass	
HDR:W17DS02458	9054	24/11/2017	2	355381	5782483	1	101	0.5 dry	Pass	
HDR:W17DS02458	9055	24/11/2017	3	355381	5782535	2	96.5	1.5 dry	Pass	
HDR:W17DS02487	9138	27/11/2017	1	355372	5782493	2	98.5	2 dry	Pass	
HDR:W17DS02494	9169	28/11/2017	1	355378	5782531	2	96.5	2 dry	Pass	
HDR:W17DS02494	9170	28/11/2017	2	355349	5782499	1	100	1.5 dry	Pass	
HDR:W17DS02518	9316	30/11/2017	1	355339	5782497		102	1.5 dry	Pass	
HDR:W17DS02518	9317	30/11/2017	2	355349	5782518		99	0.5 wet	Pass	
HDR:W17DS02579	9622	11/12/2017	1	355354	5782532		99.5	0.5 dry	Pass	
HDR:W17DS02579	9623	11/12/2017	2	355327	5782537		97.5	0.5 wet	Pass	
HDR:W17DS02598	9714	12/12/2017	1	355341	5782507	5	97.5	1.5 wet	Pass	
HDR:W17DS02598	9715	12/12/2017	2	355315	5782518	5	100	2 wet	Pass	
HDR:W17DS02615	9776	13/12/2017	1	355349	5782544		99.5	2 wet	Pass	
HDR:W17DS02629	9818	14/12/2017	1	355347	5782497	6	100	0 dry	Pass	
HDR:W17DS02687	10041	19/12/2017	1	355336	5782386	1	96.5	0 wet	Pass	
HDR:W17DS02687	10042	19/12/2017	2	355314	5782374	1	94.5	2 wet	Fail	See Retest 10120
HDR:W17DS02707	10112	20/12/2017	1	355341	5782384	2	99.5	2 dry	Pass	
HDR:W17DS02711	10120	21/12/2017	1	355318	5782372	1	105	2 dry	Pass	Retest of 10042
HDR:W17DS02711	10121	21/12/2017	2	355324	5782393	3	100.5	0 dry	Pass	
HDR:W18DS00007	6	3/01/2018	1	355351	5782418	1	99	0.5 dry	Pass	
HDR:W18DS00013	22	4/01/2018	1	355350	5782417	2	103.5	0.5 dry	Pass	
HDR:W18DS00013	23	4/01/2018	2	355348	5782411	3	100.5	2 dry	Pass	
HDR:W18DS00015	60	5/01/2018	1	355350	5782407	4	100.5	1 dry	Pass	
HDR:W18DS00027	109	9/01/2018	1	355359	5782443	1	97.5	1.5 dry	Pass	
HDR:W18DS00027	110	9/01/2018	2	355320	5782420	3	102	1 dry	Pass	
HDR:W18DS00050	206	11/01/2018	1	355266	5782384	2	96	1 wet	Pass	
HDR:W18DS00050	207	11/01/2018	2	355248	5782377	1	96.5	0 wet	Pass	



# Hilf Summary Table

## 3807351.010 Meridian Estate Stage 10

Chadwick Geotechnics  
25 Metcalf Street  
Dandenong South VIC 3175

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

Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W18DS00058	227	12/01/2018	1	355348	5782443	2	97.5	0.5 wet	Pass	
HDR:W18DS00088	355	16/01/2018	1	355262	5782373	1	98	0 dry	Pass	
HDR:W18DS00088	356	16/01/2018	2	355241	5782378	3	99.5	0.5 dry	Pass	
HDR:W18DS00088	357	16/01/2018	3	355338	5782316	1	100	3 dry	Pass	
HDR:W18DS00088	358	16/01/2018	4	355316	5782349	1	99.5	0.5 dry	Pass	
HDR:W18DS00122	486	19/01/2018	1	355302	5782340	2	94	4 dry	Fail	See retest 547
HDR:W18DS00122	487	19/01/2018	2	355296	5782313	1	98	2.5 dry	Pass	
HDR:W18DS00141	547	22/01/2018	1	355300	5782341	1	101	1 dry	Pass	Retest of 486
HDR:W18DS00141	548	22/01/2018	2	355277	5782455	2	99	2 dry	Pass	
HDR:W18DS00160	618	23/01/2018	1	355297	5782344	3	102	0.5 dry	Pass	
HDR:W18DS00160	619	23/01/2018	2	355345	5782349	2	96.5	0 wet	Pass	
HDR:W18DS00160	620	23/01/2018	3	355341	5782311	2	103.5	2.5 dry	Pass	
HDR:W18DS00180	715	24/01/2018	1	355266	5782419	2	98	2 dry	Pass	
HDR:W18DS00180	716	24/01/2018	2	355269	5782421	3	94	2 dry	Fail	See Retest 776
HDR:W18DS00180	717	24/01/2018	3	355260	5782387	5	104.5	2 dry	Pass	
HDR:W18DS00199	776	25/01/2018	1	355261	5782421	1	97.5	1.5 dry	Pass	Retest of 716
HDR:W18DS00199	777	25/01/2018	2	355277	5782451	4	98.5	2.5 dry	Pass	
HDR:W18DS00221	893	29/01/2018	1	355281	5782460	4	99.5	3 dry	Pass	
HDR:W18DS00221	894	29/01/2018	2	355267	5782425	2	97	3 dry	Pass	
HDR:W18DS00250	1002	1/02/2018	1	355273	5782354	1	93.5	1 dry	Fail	See Retest 1060
HDR:W18DS00250	1003	1/02/2018	2	355246	5782326	1	97.5	0.5 dry	Pass	
HDR:W18DS00263	1038	2/02/2018	1	355328	5782345	1	100	1.5 dry	Pass	
HDR:W18DS00270	1060	3/02/2018	1	355252	5782351	2	95.5	2 dry	Pass	Retest of 1002
HDR:W18DS00270	1061	3/02/2018	2	355263	5782322	2	106	4.5 dry	Pass	
HDR:W18DS00281	1086	5/02/2018	1	355262	5782324	1	107.5	2.5 dry	Pass	
HDR:W18DS00298	1151	6/02/2018	1	355223	5782324	1	101	4.5 dry	Pass	
HDR:W18DS00322	1216	7/02/2018	1	355237	5782275	2	101.5	2.5 dry	Pass	
HDR:W18DS00322	1217	7/02/2018	2	355246	5782260	1	103.5	3 dry	Pass	
HDR:W18DS00336	1248	8/02/2018	1	355225	5782326	2	105.5	4.5 dry	Fail	See Retest 1341
HDR:W18DS00336	1249	8/02/2018	2	355219	5782293	1	96.5	4.5 dry	Fail	See Retest 1340
HDR:W18DS00360	1311	9/02/2018	1	355243	5782263	3	101.5	0.5 dry	Pass	
HDR:W18DS00360	1312	9/02/2018	2	355219	5782279	2	96	3 wet	Pass	
HDR:W18DS00369	1338	10/02/2018	1	355231	5782225	3	98.5	0 wet	Pass	
HDR:W18DS00369	1339	10/02/2018	2	355208	5782227	2	101	0.5 dry	Pass	
HDR:W18DS00369	1340	10/02/2018	3	355217	5782293	1	98	1 dry	Pass	Retest of 1249
HDR:W18DS00369	1341	10/02/2018	4	355224	5782325	2	97	1 wet	Pass	Retest of 1248
HDR:W18DS00591	2258	23/02/2018	1	355284	5782239	1	102.5	2.5 dry	Pass	
HDR:W18DS00591	2259	23/02/2018	2	355283	5782185	1	101.5	1.5 dry	Pass	
HDR:W18DS00662	2549	28/02/2018	1	355235	5782148	1	97	2.5 dry	Pass	
HDR:W18DS01166	4284	12/04/2018	1	355402	5782441	1	97	0 dry	Pass	
HDR:W18DS01166	4285	12/04/2018	2	355401	5782435	2	95.5	0 wet	Pass	
HDR:W18DS01186	4342	13/04/2018	1	355395	5782406	2	103	4 dry	Fail	See Retest 4542
HDR:W18DS01186	4343	13/04/2018	2	355397	5782401	1	104	2.5 dry	Pass	
HDR:W18DS01233	4539	18/04/2018	1	355376	5782279	1	103	0.5 dry	Pass	
HDR:W18DS01233	4540	18/04/2018	2	355375	5782251	2	100	0 dry	Pass	
HDR:W18DS01233	4541	18/04/2018	3	355381	5782327	1	97.5	2 dry	Pass	
HDR:W18DS01233	4542	18/04/2018	4	355383	5782358	2	100	2 dry	Pass	Retest of 4342

## Appendix C    NATA endorsed laboratory reports

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# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**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. Robinson  
 (Senior Technician)  
 Date of Issue: 16/11/2017

12712

**THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL**

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

## Sample Data

Sample ID	S17DS-08687	S17DS-08688			
Field Sample ID	1	2			
Date Tested	15/11/2017	15/11/2017			
E	355399	355392			
N	5782648	5782664			
Layer	2	1			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.91	1.92			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.89	1.99			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 dry	1.5 dry			
Hilf Density Ratio (%)	<b>101.0</b>	<b>96.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**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. Robinson  
 (Senior Technician)  
 Date of Issue: 21/11/2017

12712

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-08735	S17DS-08736			
Field Sample ID	1	2			
Date Tested	16/11/2017	16/11/2017			
E	355395	355353			
N	5782683	5782678			
Layer	3	4			
Soil Description	Sandy Clay	Sandy Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	2.02	2.01			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.15	2.04			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	<b>94.0</b>	<b>98.5</b>			

## Comments



# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**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/international standards.

12712  
 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Approved Signatory: J. Lamont  
 (Melbourne Lab Supervisor)  
 Date of Issue: 20/11/2017

## Sample Details

**Location:** Clyde  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-08846	S17DS-08847			
Field Sample ID	1	2			
Date Tested	17/11/2017	17/11/2017			
E	355390	355386			
N	5782696	5782659			
Layer	5	6			
Lot	Lot1002	Loy 1004			
Soil Description	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	175	175			
Field Moisture Content (%)	0.0	0.0			
Field Wet Density (t/m <sup>3</sup> )	2.05	1.92			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.97	1.99			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	0.5 wet			
Hilf Density Ratio (%)	<b>103.5</b>	<b>96.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:** 2120  
**TRN:** **Lot No.:**

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Approved Signatory: J. Lamont  
(Melbourne Lab Supervisor)  
Date of Issue: 20/11/2017

## Sample Details

**Location:** Clyde  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

## Sample Data

Sample ID	S17DS-08853	S17DS-08854			
Field Sample ID	1	2			
Date Tested	18/11/2017	18/11/2017			
E	355392	355371			
N	5782608	5782624			
Layer	1	1			
Lot	Lot 1006	lot 1005			
Soil Description	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	175	175			
Field Moisture Content (%)	0.0	0.0			
Field Wet Density (t/m <sup>3</sup> )	2.03	2.02			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.04	2.07			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	0.5 wet			
Hilf Density Ratio (%)	<b>99.0</b>	<b>97.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:** 2125  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 22/11/2017

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-08897	S17DS-08898			
Field Sample ID	1	2			
Date Tested	20/11/2017	20/11/2017			
E	355377	355364			
N	5782609	5782581			
Layer	2	1			
Lot	1006	1008			
Soil Description	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	175	175			
Field Wet Density (t/m <sup>3</sup> )	1.99	1.98			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06	2.09			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.5 wet	0.5 wet			
Hilf Density Ratio (%)	<b>96.5</b>	<b>94.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 23/11/2017

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## Sample Details

**Location:** Stage 10  
**Client Request ID:**  
**Specification Requirements:** Minimum Dry Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-08920	S17DS-08921	S17DS-08922			
Field Sample ID	1	2	3			
Date Tested	21/11/2017	21/11/2017	21/11/2017			
E	355389	355371	355380			
N	5782677	5782576	5782613			
	Layer 3	Layer 2	Layer 4			
Soil Description	Silty Clay	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	175	150	150			
Depth of Layer (mm)	200	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.96	1.95	1.92			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.88	1.98	1.91			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	2.5 dry	0.5 dry	2.5 dry			
Hilf Density Ratio (%)	<b>104.0</b>	<b>98.5</b>	<b>100.5</b>			

## Comments

# HILF Density Ratio Report

<b>Client:</b> Greenridge Properties Pty Ltd <b>Address:</b> PO Box 3131 AUBURN VIC 3123 <b>Project:</b> Merdian Estate - Stage 10 <b>Project No.:</b> 3807351.010 <b>Order No.:</b> <b>TRN:</b>	<b>CG Request No.:</b> <b>Lot No.:</b>	 Accredited for compliance with ISO/IEC 17025 - Testing  Accreditation No. 12719 Approved Signatory: J. Lamont (Melbourne Lab Supervisor) Date of Issue: 22/11/2017 12712 THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL
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## Sample Details

<b>Location:</b>	Wetlands Area
<b>Client Request ID:</b>	
<b>Specification Requirements:</b>	Minimum Hilf Density Ratio of 95% Standard Compaction
<b>Field Test procedures:</b>	AS 1289.5.8.1
<b>Laboratory Test procedures:</b>	AS 1289.5.7.1
<b>Sampling Method:</b>	AS1289.1.2.1 Clause 6.4 (b)
<b>Source:</b>	Onsite
<b>Material:</b>	General Fill

## Sample Data

Sample ID	S17DS-08944	S17DS-08945			
<b>Field Sample ID</b>	1	2			
<b>Date Tested</b>	22/11/2017	22/11/2017			
<b>E</b>	355450	355452			
<b>N</b>	5782689	5782684			
<b>Layer</b>	1	1			
<b>Soil Description</b>	Clay	Clay			

## Field and Laboratory Data

<b>Depth of Test (mm)</b>	300	300			
<b>Depth of Layer (mm)</b>	500	500			
<b>Field Wet Density (t/m<sup>3</sup>)</b>	2.03	2.01			
<b>Peak Converted Wet Density (t/m<sup>3</sup>)</b>	2.10	2.08			
<b>Compactive Effort</b>	Standard	Standard			
<b>Moisture Variation (%)</b>	1.5 dry	1.5 wet			
<b>Hilf Density Ratio (%)</b>	<b>96.5</b>	<b>96.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 27/11/2017

## Sample Details

**Location:** Stage 10  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-08959				
Field Sample ID	1				
Date Tested	22/11/2017				
E	355382				
N	5782607				
	Layer 5				
Soil Description	Silty Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
Field Wet Density (t/m <sup>3</sup> )	1.90				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.96				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	<b>97.0</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

**CG Request No.:**  
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## Sample Details

**Location:** Backfilling a hole on the wetland area  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 97% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-08960	S17DS-08961			
Field Sample ID	1	2			
Date Tested	22/11/2017	22/11/2017			
E	355451	355453			
N	5782692	5782688			
Soil Description	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	300	300			
Depth of Layer (mm)	500	500			
Field Wet Density (t/m <sup>3</sup> )	2.02	1.98			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.07	1.90			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.5 wet	1.5 dry			
Hilf Density Ratio (%)	<b>97.5</b>	<b>104.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 27/11/2017

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## Sample Details

**Location:** Stage 10  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09005	S17DS-09006	S17DS-09007	S17DS-09008
Field Sample ID	1	2	3	4
Date Tested	23/11/2017	23/11/2017	23/11/2017	23/11/2017
E	355377	355360	355444	355440
N	5782623	5782572	5782682	5782683
Soil Description	Clay	Clay	Wetlands	Wetlands

## Field and Laboratory Data

Depth of Test (mm)	150	150	300	300
Depth of Layer (mm)	200	200	350	350
Field Wet Density (t/m <sup>3</sup> )	1.93	1.95	2.04	1.94
Peak Converted Wet Density (t/m <sup>3</sup> )	2.01	1.94	2.03	1.95
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	2.0 dry	2.5 dry	2.5 dry
Hilf Density Ratio (%)	<b>96.0</b>	<b>100.0</b>	<b>100.5</b>	<b>99.0</b>

## Comments



# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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**Approved Signatory: M. Robinson**  
(Senior Technician)  
**Date of Issue: 4/12/2017**

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09053	S17DS-09054	S17DS-09055			
Field Sample ID	1	2	3			
Date Tested	24/11/2017	24/11/2017	24/11/2017			
E	355386	355381	355381			
N	5782517	5782483	5782535			
	Layer1	Layer 1	Layer 2			
Soil Description	Clay	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150	150			
Depth of Layer (mm)	200	200	200			
AS Sieve Size (mm)			19.0			
Oversize Wet (%)			7			
Field Wet Density (t/m <sup>3</sup> )	1.92	2.04	1.97			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.99	2.02	2.04			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	2.0 dry	0.5 dry	1.5 dry			
Hilf Density Ratio (%)	<b>96.5</b>	<b>101.0</b>	<b>96.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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*M Robinson*  
 Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 4/12/2017

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09138				
Field Sample ID	1				
Date Tested	27/11/2017				
E	355372				
N	5782493				
	Layer 2				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	12				
Field Wet Density (t/m <sup>3</sup> )	2.04				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.07				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	<b>98.5</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 4/12/2017

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Dry Density Ratio of 102% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09169	S17DS-09170			
Field Sample ID	1	2			
Date Tested	28/11/2017	28/11/2017			
E	3555378	355349			
N	5782531	5782499			
Layer	2	1			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)		19.0			
Oversize Wet (%)		3			
Field Wet Density (t/m <sup>3</sup> )	1.96	1.98			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.03	1.98			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	1.5 dry			
Hilf Density Ratio (%)	<b>96.5</b>	<b>100.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

**CG Request No.:**  
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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 5/12/2017

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## Sample Details

**Location:** Stage 10  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09316	S17DS-09317			
Field Sample ID	1	2			
Date Tested	30/11/2017	30/11/2017			
E	355339	355349			
N	5782497	5782518			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	2.07	2.05			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02	2.07			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.5 dry	0.5 wet			
Hilf Density Ratio (%)	<b>102.0</b>	<b>99.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate  
**Project No.:** 3807351  
**Order No.:**  
**TRN:**

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

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 28/12/2017

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## Sample Details

**Location:** Stage 10  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09622	S17DS-09623			
Field Sample ID	1	2			
Date Tested	11/12/2017	11/12/2017			
E	355354	355327			
N	5782532	5782537			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	2.04	2.02			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05	2.07			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 dry	0.5 wet			
Hilf Density Ratio (%)	<b>99.5</b>	<b>97.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 28/12/2017

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09714	S17DS-09715			
Field Sample ID	1	2			
Date Tested	12/12/2017	12/12/2017			
E	355341	355315			
N	5782507	5782518			
Layer	5	5			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.99	2.00			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.04	2.00			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.5 wet	2.0 wet			
Hilf Density Ratio (%)	<b>97.5</b>	<b>100.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 (Senior Technician)  
 Date of Issue: 28/12/2017

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## Sample Details

**Location:** Stage 10  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09776				
Field Sample ID	1				
Date Tested	13/12/2017				
E	355349				
N	5782544				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
Field Wet Density (t/m <sup>3</sup> )	2.05				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 wet				
Hilf Density Ratio (%)	<b>99.5</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

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

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 (Senior Technician)  
 Date of Issue: 28/12/2017

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-09818				
Field Sample ID	1				
Date Tested	14/12/2017				
E	5782497				
N	Layer 6				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
Field Wet Density (t/m <sup>3</sup> )	2.01				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.01				
Compactive Effort	Standard				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	<b>100.0</b>				

## Comments



# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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*M Robinson*  
 Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 28/12/2017

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-10041	S17DS-10042			
Field Sample ID	1	2			
Date Tested	19/12/2017	19/12/2017			
E	355336	355314			
N	5782386	5782374			
Layer	1	1			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.97	1.94			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.04	2.06			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	2.0 wet			
Hilf Density Ratio (%)	<b>96.5</b>	<b>94.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

**CG Request No.:**  
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 (Senior Technician)  
 Date of Issue: 28/12/2017

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-10112				
Field Sample ID	1				
Date Tested	20/12/2017				
E	355341				
N	5782384				
Layer	2				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
Field Wet Density (t/m <sup>3</sup> )	2.05				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.06				
Compactive Effort	Standard				
Moisture Variation (%)	2.0 dry				
Hilf Density Ratio (%)	<b>99.5</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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 (Senior Technician)  
 Date of Issue: 28/12/2017

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S17DS-10120	S17DS-10121			
Field Sample ID	1	2			
Date Tested	21/12/2017	21/12/2017			
E	5782372	5782393			
N	Retest	Layer 3			
	Layer 1				
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.99	2.01			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.90	2.00			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	0.0			
Hilf Density Ratio (%)	<b>105.0</b>	<b>100.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00006				
Field Sample ID	1				
Date Tested	3/01/2018				
E	355351				
N	5782418				
	Layer 1				
Soil Description	Clay				

## Field and Laboratory Data

Field Wet Density (t/m <sup>3</sup> )	2.04				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05				
Compactive Effort	Standard				
Moisture Variation (%)	0.5 dry				
Hilf Density Ratio (%)	<b>99.0</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00022	S18DS-00023			
Field Sample ID	1	2			
Date Tested	4/01/2018	4/01/2018			
E	5782417	5782411			
N	Layer 2	Layer 3			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	2.12	2.03			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05	2.02			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 dry	2.0 dry			
Hilf Density Ratio (%)	<b>103.5</b>	<b>100.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00060				
Field Sample ID	1				
Date Tested	5/01/2018				
E	355350				
N	5782407				
	Layer 4				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
Field Wet Density (t/m <sup>3</sup> )	2.09				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.08				
Compactive Effort	Standard				
Moisture Variation (%)	1.0 dry				
Hilf Density Ratio (%)	<b>100.5</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

**CG Request No.:**  
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 (Senior Technician)  
 Date of Issue: 30/01/2018



## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00109	S18DS-00110				
Field Sample ID	1	2				
Date Tested	9/01/2018	9/01/2018				
E	355359	355320				
N	5782443	5782420				
	Layer 1	Layer 3				
Soil Description	Clay	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Field Wet Density (t/m <sup>3</sup> )	2.00	2.05				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05	2.01				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	1.5 dry	1.0 dry				
Hilf Density Ratio (%)	>95	<b>97.5</b>	<b>102.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 30/01/2018

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00206	S18DS-00207			
Field Sample ID	1	2			
Date Tested	11/01/2018	11/01/2018			
E	355266	355248			
N	5782384	5782377			
	Layer 2	Layer 1			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.94	1.93			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.03	2.00			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.0 wet	0.0			
Hilf Density Ratio (%)	<b>96.0</b>	<b>96.5</b>			

## Comments



# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 30/01/2018

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00227				
Field Sample ID	1				
Date Tested	12/01/2018				
E	355348				
N	5782443				
	Layer 2				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
Field Wet Density (t/m <sup>3</sup> )	1.92				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.96				
Compactive Effort	Standard				
Moisture Variation (%)	0.5 wet				
Hilf Density Ratio (%)	<b>97.5</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 30/01/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00355	S18DS-00356	S18DS-00357	S18DS-00358
Field Sample ID	1	2	3	4
Date Tested	16/01/2018	16/01/2018	16/01/2018	16/01/2018
E	355262	355241	355338	355316
N	5782373	5782378	5782316	5782349
Soil Description	Layer 1 Clay	Layer 3 Clay	Layer 1 Clay	Layer 1 Clay

## Field and Laboratory Data

Depth of Test (mm)	150	150	150	150
Depth of Layer (mm)	200	200	200	200
Field Wet Density (t/m <sup>3</sup> )	1.98	2.00	1.86	2.03
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02	2.01	1.85	2.04
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	0.5 dry	3.0 dry	0.5 dry
Hilf Density Ratio (%)	<b>98.0</b>	<b>99.5</b>	<b>100.0</b>	<b>99.5</b>

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**



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Approved Signatory: J. Lamont  
 (Melbourne Lab Supervisor)  
 Date of Issue: 22/01/2018

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## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00486	S18DS-00487			
Field Sample ID	1	2			
Date Tested	19/01/2018	19/01/2018			
E	5782340	5782313			
N	Layer 2	Layer 1			
Soil Description	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Moisture Content (%)	0.0	0.0			
Field Wet Density (t/m <sup>3</sup> )	1.80	1.89			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.91	1.93			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	4.0 dry	2.5 dry			
Hilf Density Ratio (%)	<b>94.0</b>	<b>98.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 3/05/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

Sample ID	S18DS-00547	S18DS-00548				
Field Sample ID	1	2				
Date Tested	22/01/2018	22/01/2018				
E	355300	355277				
N	5782341	5782455				
	re-test from 19/01/18					
Soil Description	Silty Clay	Silty Clay				
Field Moisture Content (%)	0.0	0.0				
Field Wet Density (t/m <sup>3</sup> )	1.99	1.94				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.97	1.96				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	1.0 dry	2.0 dry				
Hilf Density Ratio (%)	<b>101.0</b>	<b>99.0</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00618	S18DS-00619	S18DS-00620			
Field Sample ID	1	2	3			
Date Tested	23/01/2018	23/01/2018	23/01/2018			
E	355297	355345	355341			
N	5782344	5782349	5782311			
	Layer 3	Layer 2	Layer 2			
Soil Description	Clay	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150	150			
Depth of Layer (mm)	200	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.99	2.01	2.07			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.95	2.08	2.00			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	0.5 dry	0.0	2.5 dry			
Hilf Density Ratio (%)	<b>102.0</b>	<b>96.5</b>	<b>103.5</b>			

## Comments

# HILF Density Ratio Report

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**Address:** PO Box 3131  
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**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
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Approved Signatory: M. Robinson  
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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00715	S18DS-00716	S18DS-00717			
Field Sample ID	1	2	3			
Date Tested	24/01/2018	24/01/2018	24/01/2018			
E	355266	355269	355260			
N	5782419	5782421	5782387			
	Layer 2	Layer 3	Layer 5			
Soil Description	Silty Clay	Silty Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150	150			
Depth of Layer (mm)	200	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.96	1.87	2.02			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.00	1.99	1.93			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	2.0 dry	2.0 dry	2.0 dry			
Hilf Density Ratio (%)	<b>98.0</b>	<b>94.0</b>	<b>104.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

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

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Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 30/01/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00776	S18DS-00777			
Field Sample ID	1	2			
Date Tested	25/01/2018	25/01/2018			
E	355261	355277			
N	5782421	5782451			
	Retest	Layer 4			
Soil Description	Silty Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.95	2.08			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.00	2.11			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.5 dry	2.5 dry			
Hilf Density Ratio (%)	<b>97.5</b>	<b>98.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: M. Robinson  
(Senior Technician)

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-00893	S18DS-00894			
Field Sample ID	1	2			
Date Tested	29/01/2018	29/01/2018			
E	355281	355267			
N	5782460	5782425			
	Layer 4	Layer 2			
Soil Description	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.93	1.90			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.94	1.96			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	3.0 dry	3.0 dry			
Hilf Density Ratio (%)	<b>99.5</b>	<b>97.0</b>			

## Comments



# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

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

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Approved Signatory: J. A. Smith  
 (Senior Technician)  
 Date of Issue: 7/02/2018

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## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-01002	S18DS-01003			
Field Sample ID	1	2			
Date Tested	1/02/2018	1/02/2018			
E	355273	355246			
N	5782354	5782326			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Field Wet Density (t/m <sup>3</sup> )	1.87	2.04			
Peak Converted Wet Density (t/m <sup>3</sup> )	2.01	2.08			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.0 dry	0.5 dry			
Hilf Density Ratio (%)	<b>93.5</b>	<b>97.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:**  
**TRN:**

**CG Request No.:**  
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Approved Signatory: J. A. Smith  
 (Senior Technician)  
 Date of Issue: 7/02/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-01038				
Field Sample ID	1				
Date Tested	2/02/2018				
E	355328				
N	5782345				
Soil Description	Silty Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Field Wet Density (t/m <sup>3</sup> )	2.01				
Peak Converted Wet Density (t/m <sup>3</sup> )	2.02				
Compactive Effort	Standard				
Moisture Variation (%)	1.5 dry				
Hilf Density Ratio (%)	<b>100.0</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: J. A. Smith  
 (Senior Technician)

## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-01060	S18DS-01061			
Field Sample ID	1	2			
Date Tested	3/02/2018	3/02/2018			
E	355252	355263			
N	5782351	5782322			
Layer	Layer 2	Layer 2			
Soil Description	Silty Clay	Silty Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Field Wet Density (t/m <sup>3</sup> )	1.85	2.01			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.94	1.89			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	4.5 dry			
Hilf Density Ratio (%)	<b>95.5</b>	<b>106.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: J. A. Smith  
 (Senior Technician)

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-01086				
Field Sample ID	1				
Date Tested	5/02/2018				
E	355262				
N	5782324				
Soil Description	Clay				

## Field and Laboratory Data

Depth of Test (mm)	150				
AS Sieve Size (mm)	19.0				
Field Wet Density (t/m <sup>3</sup> )	2.04				
Peak Converted Wet Density (t/m <sup>3</sup> )	1.90				
Compactive Effort	Standard				
Moisture Variation (%)	2.5 dry				
Hilf Density Ratio (%)	<b>107.5</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: J. A. Smith  
 (Senior Technician)

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

<b>Sample ID</b>	S18DS-01151				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	6/02/2018				
<b>E</b>	355223				
<b>N</b>	5782324				
	Layer 1				
<b>Soil Description</b>	Clay				

## Field and Laboratory Data

<b>Depth of Test (mm)</b>	150				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Field Wet Density (t/m<sup>3</sup>)</b>	1.86				
<b>Peak Converted Wet Density (t/m<sup>3</sup>)</b>	1.85				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	4.5 dry				
<b>Hilf Density Ratio (%)</b>	<b>101.0</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: J. A. Smith  
 (Senior Technician)  
 Date of Issue: 8/02/2018

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction  
**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:** General Fill

## Sample Data

Sample ID	S18DS-01216	S18DS-01217			
Field Sample ID	1	2			
Date Tested	7/02/2018	7/02/2018			
E	355237	355246			
N	5782275	5782260			
	Layer 2	Layer 1			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0	19.0			
Field Wet Density (t/m <sup>3</sup> )	1.94	1.91			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.91	1.84			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.5 dry	3.0 dry			
Hilf Density Ratio (%)	<b>101.5</b>	<b>103.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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**Approved Signatory: D. Henke**  
 (Senior Technician)  
**Date of Issue: 13/02/2018**  
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## Sample Details

**Location:** Lot Fill  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

## Sample Data

Sample ID	S18DS-01248	S18DS-01249			
Field Sample ID	1	2			
Date Tested	8/02/2018	8/02/2018			
E	355225	355219			
N	5782326	5782293			
	Layer 2	Layer 1			
Soil Description	Clay	Clay			

## Field and Laboratory Data

Depth of Test (mm)	150	150			
AS Sieve Size (mm)	19.0	19.0			
Oversize Wet (%)	0	0			
Field Moisture Content (%)	0.0	0.0			
Field Wet Density (t/m <sup>3</sup> )	1.96	1.80			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.86	1.86			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	4.5 dry	4.5 dry			
Hilf Density Ratio (%)	<b>105.5</b>	<b>96.5</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: D. Henke  
 (Senior Technician)  
 Date of Issue: 14/02/2018  
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## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

Sample ID	S18DS-01311	S18DS-01312				
Field Sample ID	1	2				
Date Tested	9/02/2018	9/02/2018				
E	355243	355219				
N	5782263	5782279				
	Layer 3	Layer 2				
Soil Description	Clay	Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0	19.0				
Oversize Wet (%)	0	0				
Field Moisture Content (%)	0.0	0.0				
Field Wet Density (t/m³)	2.05	1.96				
Peak Converted Wet Density (t/m³)	2.02	2.04				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.5 dry	3.0 wet				
Hilf Density Ratio (%)	<b>101.4</b>	<b>96.0</b>				

## Comments



# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: D. Henke  
 (Senior Technician)  
 Date of Issue: 14/02/2018

## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

Sample ID	S18DS-01338	S18DS-01339	S18DS-01340	S18DS-01341
Field Sample ID	1	2	3	4
Date Tested	10/02/2018	10/02/2018	10/02/2018	10/02/2018
E	355231	355208	355217	355224
N	5782225	5782227	5782293	5782325
	Layer 3	Layer 2	Layer 1	Layer 2
			Restest of S-01249 from 8/02/18	Restest of S-01248 from 8/02/18
Soil Description	Clay	Clay	Clay	Clay
Depth of Test (mm)	150	150	150	150
Depth of Layer (mm)	200	200	200	200
AS Sieve Size (mm)	19.0	19.0	19.0	19.0
Oversize Wet (%)	0	0	0	0
Field Moisture Content (%)	0.0	0.0	0.0	0.0
Field Wet Density (t/m <sup>3</sup> )	2.02	2.04	1.97	1.98
Peak Converted Wet Density (t/m <sup>3</sup> )	2.05	2.02	2.01	2.04
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	0.5 dry	1.0 dry	1.0 wet
Hilf Density Ratio (%)	<b>98.8</b>	<b>100.8</b>	<b>98.2</b>	<b>97.2</b>

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: *K. B. Patel*  
 (Senior Geotechnician)  
 Date of Issue: 26/02/2018

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## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

Sample ID	S18DS-02258	S18DS-02259	
Field Sample ID	1	2	
Date Tested	23/02/2018	23/02/2018	
E	355284	355283	
N	5782239	5782185	
	Layer 1	Layer 1	
Soil Description	Clay	Clay	
Depth of Test (mm)	150	150	
Depth of Layer (mm)	200	200	
AS Sieve Size (mm)	19.0	19.0	
Field Wet Density (t/m <sup>3</sup> )	2.01	2.06	
Peak Converted Wet Density (t/m <sup>3</sup> )	1.96	2.03	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	2.5 dry	1.5 dry	
Hilf Density Ratio (%)	<b>102.6</b>	<b>101.4</b>	

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
AUBURN VIC 3123  
**Project:** Meridian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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Approved Signatory: J. A. Smith  
(Senior Technician)  
Date of Issue: 1/03/2018

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## Sample Details

**Location:** Clyde North  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

<b>Sample ID</b>	S18DS-02549				
<b>Field Sample ID</b>	1				
<b>Date Tested</b>	28/02/2018				
<b>E</b>	355235				
<b>N</b>	5782148				
<b>Layer</b>	1				
<b>Soil Description</b>	Clay				
<b>Depth of Test (mm)</b>	150				
<b>Depth of Layer (mm)</b>	200				
<b>AS Sieve Size (mm)</b>	19.0				
<b>Field Wet Density (t/m<sup>3</sup>)</b>	1.91				
<b>Peak Converted Wet Density (t/m<sup>3</sup>)</b>	1.97				
<b>Compactive Effort</b>	Standard				
<b>Moisture Variation (%)</b>	2.5 dry				
<b>Hilf Density Ratio (%)</b>	<b>97.0</b>				

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**Order No.:** **CG Request No.:**  
**TRN:** **Lot No.:**

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*K. B. Patel*

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Approved Signatory: Krushik Patel  
(Senior Geotechnician)  
Date of Issue: 14/04/2018  
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## Sample Details

**Location:**  
**Client Request ID:**  
**Specification Requirements:** Minimum Hilf Density Ratio of 95% Standard Compaction +- 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:** General Fill

Sample ID	S18DS-04284	S18DS-04285	
Field Sample ID	1	2	
Date Tested	12/04/2018	12/04/2018	
E	355402	355401	
N	5782441	5782435	
	Layer 1	Layer 2	
Soil Description	Clay	Clay	
Depth of Test (mm)	150	150	
Depth of Layer (mm)	200	200	
AS Sieve Size (mm)	19.0	19.0	
Field Wet Density (t/m <sup>3</sup> )	1.97	1.95	
Peak Converted Wet Density (t/m <sup>3</sup> )	2.04	2.04	
Compactive Effort	Standard	Standard	
Moisture Ratio (%)	100.0	101.0	
Moisture Variation (%)	0.0	0.0	
Hilf Density Ratio (%)	<b>97.0</b>	<b>95.5</b>	

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**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.  
 12712

Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 18/04/2018

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% Standard Compaction +- 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:** General Fill

Sample ID	S18DS-04342	S18DS-04343			
Field Sample ID	1	2			
Date Tested	13/04/2018	13/04/2018			
E	355395	355397			
N	5782406	5782401			
	Layer 2	Layer 1			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m <sup>3</sup> )	1.98	2.00			
Peak Converted Wet Density (t/m <sup>3</sup> )	1.92	1.93			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	4.0 dry	2.5 dry			
Hilf Density Ratio (%)	<b>103.0</b>	<b>104.0</b>			

## Comments

# HILF Density Ratio Report

**Client:** Greenridge Properties Pty Ltd  
**Address:** PO Box 3131  
 AUBURN VIC 3123  
**Project:** Merdian Estate - Stage 10  
**Project No.:** 3807351.010  
**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.  
 12712

Approved Signatory: M. Robinson  
 (Senior Technician)  
 Date of Issue: 23/04/2018

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% Standard Compaction +- 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:** General Fill

Sample ID	S18DS-04539	S18DS-04540	S18DS-04541	S18DS-04542		
Field Sample ID	1	2	3	4		
Date Tested	18/04/2018	18/04/2018	18/04/2018	18/04/2018		
E	355376	355375	355381	355383		
N	5782279	5782251	5782327	5782358		
	Layer 1	Layer 2	Layer 1	Layer 2		
Soil Description	Clay	Clay	Sandy Clay	Clay		
Depth of Test (mm)	150	150	150	150		
Depth of Layer (mm)	200	200	200	200		
Field Wet Density (t/m <sup>3</sup> )	2.01	2.00	1.94	1.91		
Peak Converted Wet Density (t/m <sup>3</sup> )	1.95	2.01	1.99	1.92		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.5 dry	0.0	2.0 dry	2.0 dry		
Hilf Density Ratio (%)	<b>103.0</b>	<b>100.0</b>	<b>97.5</b>	<b>100.0</b>		

## Comments

## Appendix D: Controlled fill certificates

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1001 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1002 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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

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### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1003 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1004 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1005 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
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Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1006 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. 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.

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Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1007 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. 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



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Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1008 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. 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



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Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1009 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1010 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1011 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1012 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1013 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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

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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1014 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1015 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1016 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1017 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1018 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1019 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1020 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1021 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1022 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1023 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
PO Box 4136  
DANDENONG SOUTH VIC 3164

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### SUMMARY

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### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1024 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1025 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1026 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1027 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1028 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1029 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1030 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1031 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1032 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1033 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1034 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1035 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1036 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1037 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1038 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1039 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1040 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1041 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1042 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1043 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1044 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1045 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1046 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1047 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1048 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1049 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1050 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1051 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1052 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1053 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1054 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1055 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1056 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1057 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1058 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1059 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1060 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1061 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1062 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1063 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1064 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1065 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1066 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1067 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1068 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1069 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1070 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1071 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1072 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1073 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1074 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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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### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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## CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 1075 CG REF: 3807351.010 Stage 10.v1  
Meridian Estate Stage 10  
Clyde North VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE: : May 2018  
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).

This report is based on the conditions present and factors affecting the soil at the time of inspection, namely the 15<sup>th</sup> November 2017 to the 18<sup>th</sup> April 2018. No responsibility or liability will be accepted and Chadwick Geotechnics Pty Ltd is indemnified to the full extent permitted by law in respect of the use of this Certificate where there has been a change in the nature of the project, or in the site conditions since the site testing.

### CHADWICK GEOTECHNICS PTY LTD



Robert Barden  
Geotechnical Engineer



Tim Chadwick  
Project Director

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