



REPORT

Level One Inspection and Testing Services

Meridian Estate Stage 14, Lot's 1401 to 1416
and 1433 to 1459

Prepared for:

Grosvenor Lodge Pty Ltd

November 2018

Our Ref: 3807351.014.v1

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

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Chadwick Geotechnics Pty Ltd (FILE)

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1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics) was engaged by Grosvenor Lodge Pty Ltd, to provide Level 1 Inspection and Testing services for the earthworks within Stage 14 of the Meridian Estate in Clyde North.

2 Project details

The project included the preparation and filling of lot's 1401 to 1416 and 1433 to 1459. The specification required the earthworks to be completed under Level 1 Supervision that is, full-time Inspection and Testing of the earthworks. Chadwick Geotechnics were onsite for the duration of the earthworks program.

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



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

3 Geology

Published information¹ 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, 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 7th June 2018 to the 17th September 2018. During this period Chadwick Geotechnics observed the works, including the supply of material, conditioning of material (moisture conditioning and oversize removal), placement and compaction of the fill material.

All fill material was placed in lift sequences and Chadwick Geotechnics verified that the surface of the stripped 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.

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

A total of fifty eight (58) tests were performed during the filling process.

The results show that three (3) test failed to meet the specification requirements for the project. The earthworks contractor was advised of the test that failed and the fill relevant to the area was reworked, reconditioned, re-compacted and subsequently retested. The final results show the tests achieved the specification requirements for the project.

A summary table of Hilf density tests is provided in Appendix B and the laboratory test reports 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 of AS3798-2007 - Level 1 Inspection and Testing.

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 7th June 2018 to the 17th September 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

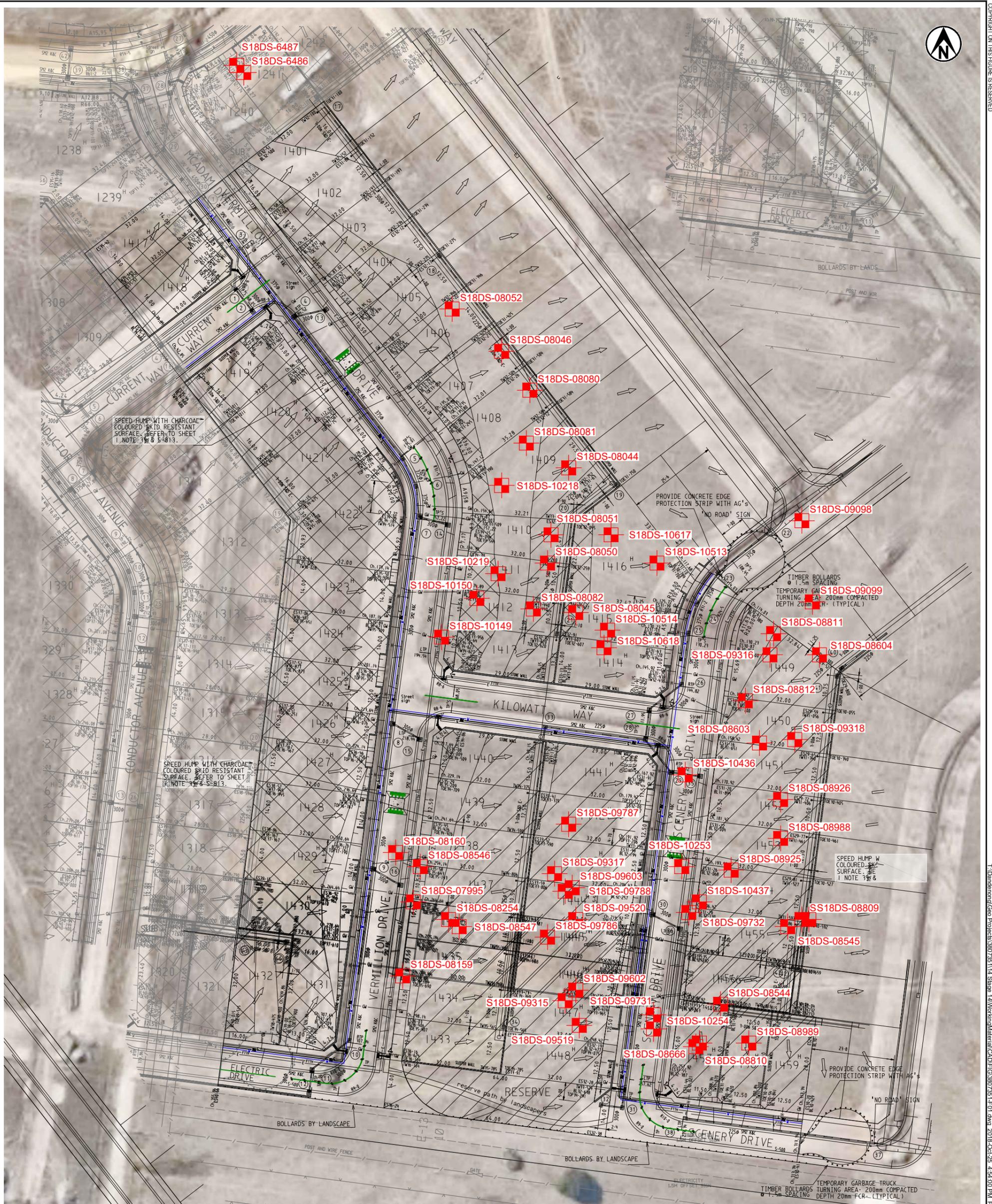
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Appendix A: Density Test Location Plan



LEGEND



7774
HILF DENSITY TEST LOCATION

AERIAL PHOTO SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD IMAGERY DATE: 22/03/2018.

PROJECT No.	3807351	
DESIGNED	KMJA	Oct.18
DRAWN		
CHECKED		
APPROVED	DATE	

CLIENT	GROSVENOR LODGE PTY LTD
PROJECT	MERIDIAN ESTATE - STAGE 14
TITLE	HILF DENSITY TEST LOCATION PLAN

Appendix B: Table of field density results

Hilf Summary Table

3807351.014 Meridian Estate Stage 14



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W18DS01718	S18DS-6486	7/06/2018	1	355565	5782366	Layer 2	98	0.5 dry	Pass	
HDR:W18DS01718	S18DS-6487	7/06/2018	2	355563	5782368	Layer 1	96.5	0.5 dry	Pass	
HDR:W18DS02072	S18DS-07995	12/07/2018	1	355613	5782131	Layer 1	96.5	OMC	Pass	
HDR:W18DS02092	S18DS-08044	13/07/2018	1	355657	5782254	Layer 1	100	2 dry	Pass	
HDR:W18DS02092	S18DS-08045	13/07/2018	2	355659	5782213	Layer 2	97.5	OMC	Pass	
HDR:W18DS02092	S18DS-08046	13/07/2018	3	355638	5782287	Layer 1	95	OMC	Pass	
HDR:W18DS02095	S18DS-08050	14/07/2018	1	355651	5782227	Layer 3	98.5	0.5 dry	Pass	
HDR:W18DS02095	S18DS-08051	14/07/2018	2	355652	5782235	Layer 4	97	1.5 dry	Pass	
HDR:W18DS02095	S18DS-08052	14/07/2018	3	355624	5782299	Layer 2	101	2 dry	Pass	
HDR:W18DS02103	S18DS-08080	16/07/2018	1	355646	5782276	Layer 2	100.5	0.5 dry	Pass	
HDR:W18DS02103	S18DS-08081	16/07/2018	2	355645	5782261	Layer 5	98	OMC	Pass	
HDR:W18DS02103	S18DS-08082	16/07/2018	3	355647	5782214	Layer 5	98.5	0.5 dry	Pass	
HDR:W18DS02126	S18DS-08159	18/07/2018	1	355610	5782110	Layer 1	102	OMC	Pass	
HDR:W18DS02126	S18DS-08160	18/07/2018	2	355608	5782145	Layer 2	98.5	2 wet	Pass	
HDR:W18DS02144	S18DS-08254	19/07/2018	1	355623	5782126	Layer 4	104.5	OMC	Pass	
HDR:W18DS02217	S18DS-08544	27/07/2018	1	355700	5782102	Layer 1	101	0.5 wet	Pass	
HDR:W18DS02217	S18DS-08545	27/07/2018	2	355719	5782124	Layer 2	100	1 dry	Pass	
HDR:W18DS02217	S18DS-08546	27/07/2018	3	355615	5782141	Layer 5	106.5	1 dry	Pass	
HDR:W18DS02217	S18DS-08547	27/07/2018	4	355626	5782124	Layer 6	100.5	OMC	Pass	
HDR:W18DS02237	S18DS-08603	30/07/2018	1	355711	5782176	Layer 1	99.5	OMC	Pass	

Hilf Summary Table

3807351.014 Meridian Estate Stage 14



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W18DS02237	S18DS-08604	30/07/2018	2	355728	5782201	Layer 2	97.5	OMC	Pass	
HDR:W18DS02248	S18DS-08665	31/07/2018	1	355723	5782126	Layer 3	94.5	3 wet	Fail	See retest 8809
HDR:W18DS02248	S18DS-08666	31/07/2018	2	355693	5782090	Layer 4	94	1.5 wet	Fail	See retest 8810
HDR:W18DS02287	S18DS-08809	3/08/2018	1	355725	5782126	Layer 3	100	0.5 wet	Pass	Retest of 8665
HDR:W18DS02287	S18DS-08810	3/08/2018	2	355694	5782091	Layer 4	104	1 wet	Pass	Retest of 8666
HDR:W18DS02287	S18DS-08811	3/08/2018	3	355715	5782207	Layer 4	95	OMC	Pass	
HDR:W18DS02287	S18DS-08812	3/08/2018	4	355707	5782188	Layer 3	97.5	OMC	Pass	
HDR:W18DS02308	S18DS-08925	7/08/2018	1	355703	5782140	Layer 5	101	2 dry	Pass	
HDR:W18DS02308	S18DS-08926	7/08/2018	2	355717	5782160	Layer 6	99.5	1 dry	Pass	
HDR:W18DS02333	S18DS-08988	9/08/2018	1	355717	5782149	Layer 8	97.5	2 dry	Pass	
HDR:W18DS02333	S18DS-08989	9/08/2018	2	355708	5782091	Layer 6	98.5	2 dry	Pass	
HDR:W18DS02367	S18DS-09098	13/08/2018	1	355723	5782239	Layer 2	101	1.5 dry	Pass	
HDR:W18DS02367	S18DS-09099	13/08/2018	2	355726	5782216	Layer 1	105	1.5 dry	Pass	
HDR:W18DS02418	S18DS-09315	17/08/2018	1	355656	5782103	Layer 1	96	0.5 wet	Pass	
HDR:W18DS02418	S18DS-09316	17/08/2018	2	355714	5782201	Layer 5	96.5	OMC	Pass	
HDR:W18DS02418	S18DS-09317	17/08/2018	3	355653	5782139	Layer 1	101	OMC	Pass	
HDR:W18DS02418	S18DS-09318	17/08/2018	4	355721	5782177	Layer 7	101.5	OMC	Pass	
HDR:W18DS02479	S18DS-09519	24/08/2018	1	355660	5782096	Layer 2	98.5	OMC	Pass	
HDR:W18DS02479	S18DS-09520	24/08/2018	2	355659	5782126	Layer 1	100	OMC	Pass	
HDR:W18DS02499	S18DS-09602	27/08/2018	1	355659	5782106	Layer 3	98	0.5 wet	Pass	

Appendix C NATA endorsed laboratory reports



Dandenong South
ACN 143 009 330
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Ph: + 61 3 8796 7900
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Report No: HDR:W18DS01718

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate - Stage 12
Project No.: 3807351.012
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing




Acrylic Edition No. 12715

K. B. Patel

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
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Approved Signatory: Krushik Patel
 (Senior Geotechnician)
 Date of Issue: 8/06/2018

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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

Sample ID	S18DS-06486	S18DS-06487	
Field Sample ID	1	2	
Date Tested	7/06/2018	7/06/2018	
Location	355565	355563	
E	5782366	5782368	
N	Layer 2	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 ³)	1.97	1.97	
Peak Converted Wet Density (t/m ³)	2.01	2.04	
Compactive Effort	Standard	Standard	
Moisture Variation (%)	0.5 dry	0.5 dry	
Hilf Density Ratio (%)	98.0	96.5	

Comments



Dandenong South
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Report No: HDR:W18DS02072

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 19/07/2018

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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

Sample ID	S18DS-07995				
Field Sample ID	1				
Date Tested	12/07/2018				
Location	355613				
E	5782131				
N	Layer 1				
Soil Description	Clay				
Depth of Test (mm)	150				
Depth of Layer (mm)	200				
Field Wet Density (t/m³)	1.94				
Peak Converted Wet Density (t/m³)	2.00				
Compactive Effort	Standard				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	96.5				

Comments



Dandenong South
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Report No: HDR:W18DS02092

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 19/07/2018

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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

Sample ID	S18DS-08044	S18DS-08045	S18DS-08046		
Field Sample ID	1	2	3		
Date Tested	13/07/2018	13/07/2018	13/07/2018		
Location	355657	355659	355638		
E	5782254	5782213	5782287		
N	Layer 1	Layer 2	Layer 1		
Soil Description	Clay	Clay	Clay		
Depth of Test (mm)	150	150	150		
Depth of Layer (mm)	200	200	200		
Field Wet Density (t/m ³)	2.13	1.93	1.93		
Peak Converted Wet Density (t/m ³)	2.14	1.98	2.03		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	2.0 dry	0.0	0.0		
Hilf Density Ratio (%)	100.0	97.5	95.0		

Comments



Dandenong South
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Report No: HDR:W18DS02095

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 19/07/2018

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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

Sample ID	S18DS-08050	S18DS-08051	S18DS-08052			
Field Sample ID	1	2	3			
Date Tested	14/07/2018	14/07/2018	14/07/2018			
Location	355651	355652	355624			
E	5782227	5782235	5782299			
N	Layer 3	Layer 4	Layer 2			
Soil Description	Clay	Clay	Clay			
Depth of Test (mm)	150	150	150			
Depth of Layer (mm)	200	200	200			
Field Wet Density (t/m ³)	1.95	1.92	1.96			
Peak Converted Wet Density (t/m ³)	1.98	1.98	1.94			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	0.5 dry	1.5 dry	2.0 dry			
Hilf Density Ratio (%)	98.5	97.0	101.0			

Comments



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Report No: HDR:W18DS02103

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 19/07/2018

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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

Sample ID	S18DS-08080	S18DS-08081	S18DS-08082		
Field Sample ID	1	2	3		
Date Tested	16/07/2018	16/07/2018	16/07/2018		
Location	355646	355645	355647		
E	5782276	5782261	5782214		
N	Layer 2	Layer 5	Layer 5		
Soil Description	Clay	Clay	Clay		
Depth of Test (mm)	150	150	150		
Depth of Layer (mm)	200	200	200		
AS Sieve Size (mm)	19.0				
Field Moisture Content (%)	24.0	28.0	22.0		
Field Wet Density (t/m ³)	1.99	1.96	2.00		
Field Dry Density (t/m ³)	1.60	1.53	1.64		
Peak Converted Wet Density (t/m ³)	1.98	2.00	2.03		
Optimum Moisture Content (%)	24.5	28.0	22.0		
Compactive Effort	Standard	Standard	Standard		
Moisture Ratio (%)	98.0	100.5	99.0		
Moisture Variation (%)	0.5 dry	0.0	0.5 dry		
Hilf Density Ratio (%)	100.5	98.0	98.5		

Comments



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Report No: HDR:W18DS02126

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing



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Approved Signatory: B. Taseski
 (Senior Technician)
 Date of Issue: 23/07/2018

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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: Imported
Material: General Fill

Sample ID	S18DS-08159	S18DS-08160			
Field Sample ID	1	2			
Date Tested	18/07/2018	18/07/2018			
E	355610	355608			
N	5782110	5782145			
	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/m³)	2.06	2.02			
Peak Converted Wet Density (t/m³)	2.02	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	2.0 wet			
Hilf Density Ratio (%)	102.0	98.5			

Comments



Dandenong South
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Report No: HDR:W18DS02144

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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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

Sample ID	S18DS-08254				
Field Sample ID	1				
Date Tested	19/07/2018				
E	355623				
N	5782126				
	Layer 4				
Soil Description	Clay				
Depth of Test (mm)	150				
Depth of Layer (mm)	200				
AS Sieve Size (mm)	19.0				
Field Wet Density (t/m³)	2.07				
Peak Converted Wet Density (t/m³)	1.98				
Compactive Effort	Standard				
Moisture Variation (%)	0.0				
Hilf Density Ratio (%)	104.5				

Comments



Dandenong South
ACN 143 009 330
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Ph: + 61 3 8796 7900
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Report No: HDR:W18DS02217

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing

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Approved Signatory: B. Taseski
 (Senior Technician)
 Date of Issue: 30/07/2018

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-08544	S18DS-08545	S18DS-08546	S18DS-08547
Field Sample ID	1	2	3	4
Date Tested	27/07/2018	27/07/2018	27/07/2018	27/07/2018
E	355700	355719	355615	355626
N	5782102	5782124	5782141	5782124
	Layer 1	Layer 2		
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 Wet Density (t/m ³)	2.02	1.95	2.13	1.99
Peak Converted Wet Density (t/m ³)	2.00	1.95	1.99	1.98
Compactive Effort	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.5 wet	1.0 dry	1.0 dry	0.0
Hilf Density Ratio (%)	101.0	100.0	106.5	100.5

Comments



Dandenong South
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Report No: HDR:W18DS02237

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing



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Approved Signatory: B. Taseski
 (Senior Technician)
 Date of Issue: 31/07/2018

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-08603	S18DS-08604			
Field Sample ID	1	2			
Date Tested	30/07/2018	30/07/2018			
Location	355711	355728			
E	5782176	5782201			
N	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			
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	2.03	1.98			
Peak Converted Wet Density (t/m³)	2.03	2.03			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	99.5	97.5			

Comments



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Report No: HDR:W18DS02248

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: B. Taseski
 (Senior Technician)
 Date of Issue: 2/08/2018

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-08665	S18DS-08666			
Field Sample ID	1	2			
Date Tested	31/07/2018	31/07/2018			
E	355723	355693			
N	5782126	5782090			
	Layer 3	Layer 4			
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 Wet Density (t/m³)	1.99	1.93			
Peak Converted Wet Density (t/m³)	2.10	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	3.0 wet	1.5 wet			
Hilf Density Ratio (%)	94.5	94.0			

Comments



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Report No: HDR:W18DS02287

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: B. Taseski
 (Senior Technician)
 Date of Issue: 6/08/2018

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-08809	S18DS-08810	S18DS-08811	S18DS-08812		
Field Sample ID	1	2	3	4		
Date Tested	3/08/2018	3/08/2018	3/08/2018	3/08/2018		
E	355725	355694	355715	355707		
N	5782126	5782091	5782207	5782188		
	re-test No 3 from	re-test No 4 from	Layer 4	Layer 3		
	31.07.18	31.07.18				
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 Wet Density (t/m³)	1.91	2.13	1.91	2.01		
Peak Converted Wet Density (t/m³)	1.91	2.05	2.01	2.05		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.5 wet	1.0 wet	0.0	0.0		
Hilf Density Ratio (%)	100.0	104.0	95.0	97.5		

Comments



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Report No: HDR:W18DS02308

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 15/08/2018

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-08925	S18DS-08926			
Field Sample ID	1	2			
Date Tested	7/08/2018	7/08/2018			
Location	355703	355717			
E	5782140	5782160			
N	Layer 5	Layer 6			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m³)	2.04	1.98			
Peak Converted Wet Density (t/m³)	2.02	1.99			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	1.0 dry			
Hilf Density Ratio (%)	101.0	99.5			

Comments



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Report No: HDR:W18DS02333

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 15/08/2018

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-08988	S18DS-08989			
Field Sample ID	1	2			
Date Tested	9/08/2018	9/08/2018			
Location	355717	355708			
E	5782149	5782091			
N	Layer 8	Layer 6			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m³)	1.93	1.94			
Peak Converted Wet Density (t/m³)	1.98	1.96			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	2.0 dry			
Hilf Density Ratio (%)	97.5	98.5			

Comments



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Report No: HDR:W18DS02367

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 20/08/2018

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-09098	S18DS-09099			
Field Sample ID	1	2			
Date Tested	13/08/2018	13/08/2018			
E	355773	355726			
N	5782239	5782216			
	Layer 2	Layer 1			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m³)	1.99	1.96			
Peak Converted Wet Density (t/m³)	1.97	1.87			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.5 dry	1.5 dry			
Hilf Density Ratio (%)	101.0	105.0			

Comments



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Report No: HDR:W18DS02418

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing

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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 24/08/2018

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-09315	S18DS-09316	S18DS-09317	S18DS-09318		
Field Sample ID	1	2	3	4		
Date Tested	17/08/2018	17/08/2018	17/08/2018	17/08/2018		
E	355656	355714	355653	355721		
N	5782103	5782201	5782139	5782177		
	Layer 1	Layer 5	Layer 1	Layer 7		
Soil Description	Clay	Clay	Clay	Clay		
Depth of Test (mm)	150	150	150	150		
Depth of Layer (mm)	200	200	200	200		
Field Wet Density (t/m ³)	1.95	1.93	2.02	2.04		
Peak Converted Wet Density (t/m ³)	2.03	2.01	2.00	2.01		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.5 wet	0.0	0.0	0.0		
Hilf Density Ratio (%)	96.0	96.5	101.0	101.5		

Comments



Dandenong South
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Report No: HDR:W18DS02479

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing



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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 31/08/2018

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-09519	S18DS-09520			
Field Sample ID	1	2			
Date Tested	24/08/2018	24/08/2018			
E	355660	355659			
N	5782096	5782126			
	Layer 2	Layer 1			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m³)	1.97	2.03			
Peak Converted Wet Density (t/m³)	2.00	2.03			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	98.5	100.0			

Comments



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Report No: HDR:W18DS02499

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing

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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 28/08/2018

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-09602	S18DS-09603			
Field Sample ID	1	2			
Date Tested	27/08/2018	27/08/2018			
E	355659	355658			
N	5782106	5782135			
	Layer 3	Layer 4			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m ³)	2.01	1.93			
Peak Converted Wet Density (t/m ³)	2.04	2.05			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	1.5 wet			
Hilf Density Ratio (%)	98.0	94.0			

Comments



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Report No: HDR:W18DS02525

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 31/08/2018

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-09731	S18DS-09732			
Field Sample ID	1	2			
Date Tested	28/08/2018	28/08/2018			
E	355681	355691			
N	5782099	5782128			
	Layer 1	Layer 2			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m³)	2.04	2.00			
Peak Converted Wet Density (t/m³)	2.04	2.01			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 wet	1.0 wet			
Hilf Density Ratio (%)	100.0	99.0			

Comments



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Report No: HDR:W18DS02540

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
 (Senior Technician)
 Date of Issue: 3/09/2018

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-09786	S18DS-09787	S18DS-09788		
Field Sample ID	1	2	3		
Date Tested	29/08/2018	29/08/2018	29/08/2018		
E	355651	355657	355656		
N	5782121	5782153	5782134		
			re-test from		
			27/08/18		
Soil Description	Clay	Clay	Clay		
Depth of Test (mm)	150	150	150		
Depth of Layer (mm)	200	200	200		
Field Wet Density (t/m ³)	1.98	1.98	1.97		
Peak Converted Wet Density (t/m ³)	1.97	2.01	1.96		
Compactive Effort	Standard	Standard	Standard		
Moisture Variation (%)	0.5 dry	0.0	1.5 dry		
Hilf Density Ratio (%)	100.5	98.5	100.5		

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W18DS02620

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

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 - Testing

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 17/09/2018

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-10149	S18DS-10150			
Field Sample ID	1	2			
Date Tested	5/09/2018	5/09/2018			
Location	355621	355631			
E	5782206	5782217			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m ³)	1.99	1.96			
Peak Converted Wet Density (t/m ³)	2.04	1.98			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.0 wet	0.5 dry			
Hilf Density Ratio (%)	97.0	99.0			

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W18DS02640

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
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. Longfield
 (Senior Technician)
 Date of Issue: 17/09/2018

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-10218	S18DS-10219			
Field Sample ID	1	2			
Date Tested	6/09/2018	6/09/2018			
E	355638	355637			
N	5782249	5782224			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Field Wet Density (t/m³)	1.97	1.97			
Peak Converted Wet Density (t/m³)	2.02	2.01			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	0.0			
Hilf Density Ratio (%)	97.5	98.0			

Comments



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

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

Report No: HDR:W18DS02653

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 17/09/2018

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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

Sample ID	S18DS-10253	S18DS-10254			
Field Sample ID	1	2			
Date Tested	8/09/2018	8/09/2018			
Location	355689	355681			
E	5782141	5782095			
N	Layer 3	Layer 4			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m ³)	1.97	1.96			
Peak Converted Wet Density (t/m ³)	2.00	1.98			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.5 wet	0.5 wet			
Hilf Density Ratio (%)	98.5	99.0			

Comments



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

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 Fax: +61 3 9706 9431

Report No: HDR:W18DS02699

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
 - Testing

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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 17/09/2018

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-10436	S18DS-10437			
Field Sample ID	1	2			
Date Tested	11/09/2018	11/09/2018			
Location	355690	355694			
E	5782167	5782131			
N	Layer 5	Layer 6			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m ³)	1.99	1.96			
Peak Converted Wet Density (t/m ³)	2.04	2.02			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.5 wet			
Hilf Density Ratio (%)	97.5	97.0			

Comments



Dandenong South
ACN 143 009 330
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 DANDENONG SOUTH, VIC 3175

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

Report No: HDR:W18DS02730

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
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.
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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 25/09/2018

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-10513	S18DS-10514				
Field Sample ID	1	2				
Date Tested	13/09/2018	13/09/2018				
Location	355682	355668				
E	5782227	5782208				
Soil Description	Clay	Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
Field Wet Density (t/m ³)	1.95	1.96				
Peak Converted Wet Density (t/m ³)	2.01	2.05				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	2.0 dry	0.5 wet				
Hilf Density Ratio (%)	96.5	95.5				

Comments



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

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

Report No: HDR:W18DS02754

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
 AUBURN VIC 3123
Project: Meridian Estate Stage 14
Project No.: 3807351.014
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.
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Approved Signatory: M. Longfield
 (Senior Technician)
 Date of Issue: 25/09/2018

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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

Sample ID	S18DS-10617	S18DS-10618			
Field Sample ID	1	2			
Date Tested	17/09/2018	17/09/2018			
Location	355669	355667			
E	5782235	5782203			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
Field Wet Density (t/m ³)	1.97	1.94			
Peak Converted Wet Density (t/m ³)	1.95	2.03			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	2.0 dry	0.5 dry			
Hilf Density Ratio (%)	101.0	95.5			

Comments

Appendix D: Controlled fill certificates



CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1401 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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 7th June 2018 to the 17th September 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1402 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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 7th June 2018 to the 17th September 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1403 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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 7th June 2018 to the 17th September 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

Handwritten signature of Robert Barden in black ink.

Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1404 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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 7th June 2018 to the 17th September 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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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1405 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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).

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1406 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1407 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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).

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1408 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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).

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1409 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1410 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1411 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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).

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CHADWICK GEOTECHNICS PTY LTD

Handwritten signature of Robert Barden in black ink.

Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1412 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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 7th June 2018 to the 17th September 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1413 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1414 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1415 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1416 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1433 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1434 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1435 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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CHADWICK GEOTECHNICS PTY LTD

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1436 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1437 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1438 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1439 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1440 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1441 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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CHADWICK GEOTECHNICS PTY LTD

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Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1442 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1443 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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CHADWICK GEOTECHNICS PTY LTD

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1444 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1445 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1446
Meridian Estate Stage 14
Chadwick Geotechnics REF: 3807351.014.v1

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

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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1447 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

Handwritten signature of Timothy Chadwick in blue ink.

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1448 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1449 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1450 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1451 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1452 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1453 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1454 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1455 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1456 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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.

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CHADWICK GEOTECHNICS PTY LTD

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1457 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1458 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

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

SUMMARY

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Robert Barden
Geotechnical Engineer

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1459 Chadwick Geotechnics REF: 3807351.014.v1
Meridian Estate Stage 14

CLIENT : Grosvenor Lodge Pty Ltd DATE : November 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 7th June 2018 to the 17th September 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

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

Robert Barden
Geotechnical Engineer

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

Timothy Chadwick
Project Director

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