

REPORT

Level One Inspection and Testing Services

Meridian Estate Stage 7
Lots 701 to 752

Prepared for:

Grosvenor Lodge Pty Ltd

December 2017

Our Ref: 3807351.007.v1



**CHADWICK
GEOTECHNICS**

Document Control

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Table of contents

1	Introduction	1
2	Project details	1
3	Geology	2
4	Specification	2
5	Inspection and testing	3
6	Conclusion	4
7	Applicability	5

Appendix A : Density Test Location Plan

Appendix B : Table of field density results

Appendix C : NATA endorsed laboratory reports

Appendix D : Controlled Fill Certificates

1 Introduction

Chadwick Geotechnics Pty Ltd (Chadwick Geotechnics) has been engaged by Grosvenor Lodge Pty Ltd, to provide Level 1 Inspection and Testing services for the earthworks (including stripping and associated works) within Lots 701 to 752 at the Meridian Estate in Clyde North.

The inspection and testing of earthworks has been carried out in accordance with AS3798-2007 Table 8.1¹, 'Guidelines on earthworks for commercial and residential developments', with a frequency of field density tests as per Type 1 project (large scale operations).

2 Project details

Project Name	:	Meridian Estate Stage 7
Project Location	:	Clyde North
Municipality	:	City of Casey
Client	:	Grosvenor Lodge Pty Ltd
Project Manager	:	Robert Barden – Geotechnical Engineer
Inspected & Tested by	:	Janusz Kwiatkowski – Technician and others as required

¹ AS 3798 – 2007 (Incorporating Amendment No. 1), Guidelines on earthworks for commercial and residential developments

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

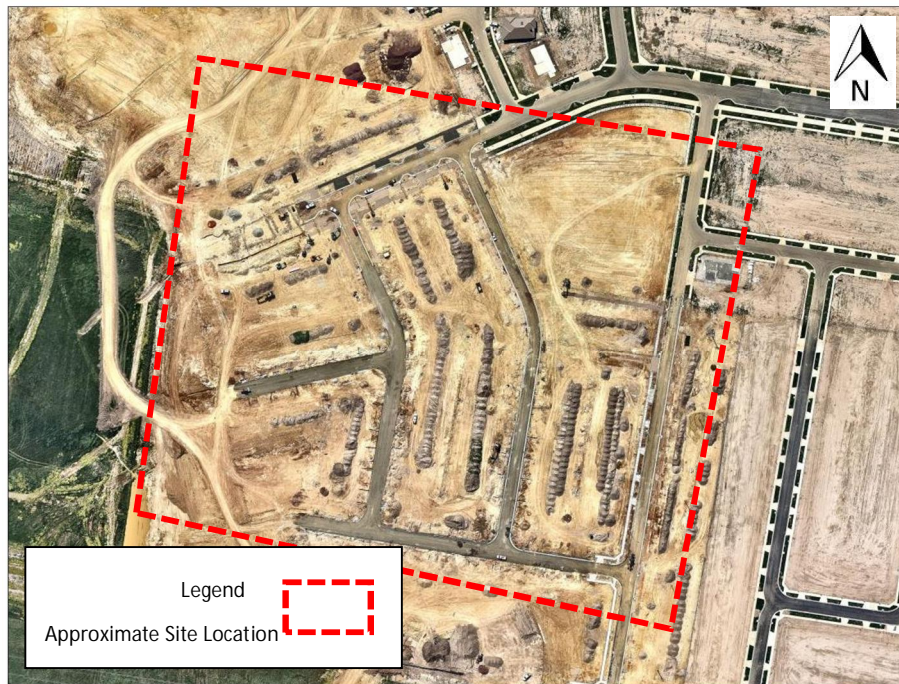


Figure 1: Approximate site location (Image sourced from Near Maps)

3 Geology

Published information² 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 see below:

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

² BIBBY, L.M., 2004. Simplified 1: 4 000 000 Geology of Victoria. Geological Survey of Victoria Special Publication. GeoScience Victoria.

5 Inspection and testing

Prior to any fill being placed at the site the stripped surface of the fill areas were inspected. The stripped surface inspections were performed by experienced Chadwick Geotechnics staff. The inspections were performed in accordance with the Level 1 guidelines presented in AS 3798–2007 Section 5.5. No soft spots were encountered and the areas were firm and free of vegetation and other deleterious material.

Full time Level 1 inspection and testing of the filling operations commenced on the 7th May 2016 and was completed on the 10th November 2017. During this period, the Chadwick Geotechnics field technician observed all works related to the construction including the supply of material, conditioning of material placement and compaction of the fill.

All fill material was placed in lift sequences and the Chadwick Geotechnics field technician verified that the surface of the stripped surface and additional lifts were thoroughly scarified and moisture conditioned prior to placement 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 1289.5.8.1³. The HILF rapid compaction test was used for peak converted wet density determinations in accordance with AS 1289.5.7.1. The test locations were recorded using a handheld GPS unit. A site plan showing the field density and moisture content test locations is provided in Appendix A.

The actual testing frequency was governed by Table 8.1 of AS 3798 which provides the required testing frequency for a Type 1 development, as identified in clause 1.2.8. Based on an area of fill that is consistent and “essentially homogeneous”. Therefore not every residential lot within the estate was density tested during earthwork filling.

The earthwork filling works was not continuous resulting in breaks in time during construction. The filling process also caused a break in the sequential numbering of the density and moisture content test reports. The summary page and attached NATA reports within this report includes test results that relate to stage 7 and at times other stages of earthworks within the Meridian Estate.

The testing results show that one test failed to meet the specified density limit 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 specified minimum density for the project. A summary table of HILF density tests is provided in Appendix B and the laboratory test reports are provided in Appendix C.

³ AS 1289.5.8.1-2007: Methods of testing soils for engineering purposes – Soil compaction and density tests – Determination of field density and field moisture content of a soil using a nuclear surface moisture Density gauge – direct transmission mode

6 Conclusion

On the basis of our direct supervision 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 field technician, 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 on Lots 701 to 752, have been performed in accordance with the requirements of Section 8.2 Level 1 Inspection and testing AS3798-2007.

The Controlled Fill Certificates for the filling works are provided in Appendix D.

7 Applicability

This report has been prepared in good faith and in accordance with the Chadwick Geotechnics quality system for the earthworks filling within Stage 7 of the Meridian Estate in Clyde North.

This report is based on the nature of the project and the conditions present in, or factors affecting the soil as at the time of inspection, namely the 7th May 2016 and was completed on the 10th November 2017. 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

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Appendix A: Density Test Location Plan

Appendix B: Table of field density results



Meridian Estate - 380735.007 - Stage 7

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]	Density Ratio HILF test (%)	Moisture Variation From OMC	Pass / Fail	Remarks
16	1606088	7/05/2016	1	354998	5782317	96	1.5 dry	Pass	
16	1606089	7/05/2016	2	354969	5782264	97	1.5 dry	Pass	
20	1606381	14/05/2016	1	354995	5782323	102	0.5 wet	Pass	
20	1606382	14/05/2016	2	354985	5782282	103	2 dry	Pass	
20	1606383	14/05/2016	3	354979	5782282	100.5	2 dry	Pass	
21	1606391	16/05/2016	1	354941	5782276	101	omc	Pass	
21	1606392	16/05/2016	2	354941	5782269	105.5	1.5 dry	Pass	
21	1606396	16/05/2016	6	354929	5782296	102.5	2.5 dry	Pass	
26	1606450	17/05/2016	1	354849	5782305	100	0.5 wet	Pass	
26	1606452	17/05/2016	3	354831	5782280	100	0.5 wet	Pass	
26	1606455	17/05/2016	6	354855	5782268	100.5	0.5 wet	Pass	
29	1606698	21/05/2016	4	354816	5782284	98.5	2 dry	Pass	
30	1607006	30/05/2016	1	354998	5782235	101	1 wet	Pass	
30	1607007	30/05/2016	2	354999	5782245	101.5	1 dry	Pass	
48	1610555	7/09/2016	1	354716	5782414	104.5	2.5 dry	Pass	
2	1704585	17/03/2017	1	354823	5782406	95.5	omc	Pass	
2	1704586	17/03/2017	2	354823	5782406	95.5	omc	Pass	
1	1704746	18/03/2017	1	354806	5782381	107	3.5 dry	Pass	
3	1705196	29/03/2017	1	354786	5782316	103.5	1.5 dry	Pass	
3	1705197	29/03/2017	2	354870	5782324	100.5	omc	Pass	



Meridian Estate - 380735.007 - Stage 7

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]	Density Ratio HILF test (%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W17DS00439	1650	8/05/2017	1	354861	5782283	108.5	0.5 dry	Pass	
HDR:W17DS00439	1651	8/05/2017	2	354801	5782273	99.5	0.5 wet	Pass	
HDR:W17DS00439	1652	8/05/2017	3	354774	5782306	106.5	omc	Pass	
HDR:W17DS00439	1653	8/05/2017	4	354816	5782323	94	0.5 wet	Fail	See retest 8395
HDR:W17DS00439	1654	8/05/2017	5	354861	5782334	95.5	omc	Pass	
19	1606361	13/05/2017	3	354922	5782296	99	0.5 wet	Pass	
19	1606362	13/05/2017	4	354925	5782264	97.5	omc	Pass	
HDR:W17DS02277	8395	10/11/2017	1	354820	5782321	103.5	3 dry	Pass	Retest of 1653

Appendix C: NATA endorsed laboratory reports

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 16**

Report Date: 10/05/16

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606088	1606089	1606090						
ID No.:	1	2	3						
Lot No.:	-	-	-						
Date Sampled:	7/05/2016	7/05/2016	7/05/2016						
Time Sampled:	am	am	am						
Date Tested:	9/05/2016	9/05/2016	9/05/2016						
Material Source:	Site Derived	Site Derived	Site Derived						
Material Description:	Silty Clay	Silty Clay	Silty Clay						
To Be Used As	Fill	Fill	Fill						
Sample Location :	E 354998 N 5782317 Layer 1	E 354969 N 5782264 Layer 1	E 354969 N 5782230 Layer 1						
Layer Depth (mm):	175	175	175						
Test Depth (mm):	150	150	150						
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)						
Max Size (mm):	19.0	19.0	19.0						
Oversize Wet (%):	0	0	0						
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	1.95	1.96	1.97						
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-						
PCWD (t/m ³):	2.03	2.03	2.03						
APCWD (t/m ³):	-	-	-						
O.M.C (%) AS1289.5.7.1:	-	-	-						
Moisture Ratio (%) AS1289.5.4.1:	-	-	-						
Moisture Variation (of omc):	1.5% (dry)	1.5% (dry)	1.5% (dry)						
Adjusted Moisture Variation (of omc):	-	-	-						
Compactive Effort:	Standard	Standard	Standard						
Hilf Density Ratio (%):	96.0	97.0	97.5						
Min Hilf Density Ratio (%):	95	95	95						

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 20**

Report Date: 17/05/16

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606381	1606382	1606383	1606384						
ID No.:	1	2	3	4						
Lot No.:	-	-	-	-						
Date Sampled:	14/05/2016	14/05/2016	14/05/2016	14/05/2016						
Time Sampled:	-	-	-	-						
Date Tested:	16/05/2016	16/05/2016	16/05/2016	16/05/2016						
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived						
Material Description:	Clay	Clay	Clay	Clay						
To Be Used As	-	-	-	-						
Sample Location :	E 354995 N 5782323 Layer 2	E 354985 N 5782282 Layer 2	E 354979 N 5782282 Layer 2	E 354976 N 5782244 Layer 2						
Layer Depth (mm):	175	175	175	175						
Test Depth (mm):	150	150	150	150						
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)						
Max Size (mm):	19.0	19.0	19.0	19.0						
Oversize Wet (%):	0	0	0	0						
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.13	2.12	2.05	2.13						
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-						
PCWD (t/m ³):	2.09	2.06	2.04	2.06						
APCWD (t/m ³)	-	-	-	-						
O.M.C (%) AS1289.5.7.1:	-	-	-	-						
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-						
Moisture Variation (of omc):	0.5% (wet)	2% (dry)	2% (dry)	1.5% (dry)						
Adjusted Moisture Variation (of omc):	-	-	-	-						
Compactive Effort:	Standard	Standard	Standard	Standard						
Hilf Density Ratio (%):	102.0	103.0	100.5	103.5						
Min Hilf Density Ratio (%):	95	95	95	95						

Remarks:



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M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 21**

Report Date: 18/05/16

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606391	1606392	1606393	1606394	1606395	1606396			
ID No.:	1	2	3	4	5	6			
Lot No.:	-	-	-	-	-	-			
Date Sampled:	16/05/2016	16/05/2016	16/05/2016	16/05/2016	16/05/2016	16/05/2016			
Time Sampled:	am	am	am	am	am	am			
Date Tested:	16/05/2016	16/05/2016	16/05/2016	17/05/2016	16/05/2016	17/05/2016			
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived			
Material Description:	Clay	Clay	Clay	Clay	Clay	Clay			
To Be Used As	Fill	Fill	Fill	Fill	Fill	Fill			
Sample Location :	E 354941 N 5782276 Layer 2	E 354941 N 5782269 Layer 2	E 354939 N 5782234 Layer 2	E 354936 N 5782215 Layer 2	E 354926 N 5782241 Layer 2	E 354929 N 5782296 Layer 2			
Layer Depth (mm):	175	175	175	175	175	175			
Test Depth (mm):	150	150	150	150	150	150			
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)			
Max Size (mm):	19.0	19.0	19.0	19.0	19.0	19.0			
Oversize Wet (%):	0	0	0	0	0	0			
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.10	2.15	2.01	2.15	2.12	2.07			
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-	-	-			
PCWD (t/m ³):	2.08	2.04	2.03	2.06	2.01	2.01			
APCWD (t/m ³)	-	-	-	-	-	-			
O.M.C (%) AS1289.5.7.1:	-	-	-	-	-	-			
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-	-	-			
Moisture Variation (of omc):	omc	1.5% (dry)	2% (dry)	1.5% (dry)	1.5% (dry)	2.5% (dry)			
Adjusted Moisture Variation (of omc):	-	-	-	-	-	-			
Compactive Effort:	Standard	Standard	Standard	Standard	Standard	Standard			
Hilf Density Ratio (%):	101.0	105.5	99.0	104.5	105.5	102.5			
Min Hilf Density Ratio (%):	95	95	95	95	95	95			

Remarks:



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M.Robinson

Form No.: **CG.315.002**

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Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 26**

Report Date: 23/05/16

C.G Order No: **151744**

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606450	1606451	1606452	1606453	1606454	1606455			
ID No.:	1	2	3	4	5	6			
Lot No.:	-	-	-	-	-	-			
Date Sampled:	17/05/2016	17/05/2016	17/05/2016	17/05/2016	17/05/2016	17/05/2016			
Time Sampled:	am/pm	am/pm	am/pm	am/pm	am/pm	am/pm			
Date Tested:	19/05/2016	19/05/2016	19/05/2016	19/05/2016	19/05/2016	19/05/2016			
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived			
Material Description:	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay			
To Be Used As	Fill	Fill	Fill	Fill	Fill	Fill			
Sample Location :	E 354849 N 5782305 Layer 1	E 354881 N 5782304 Layer 1	E 354831 N 5782280 Layer 1	E 354902 N 5782228 Layer 1	E 354894 N 5782276 Layer 1	E 354855 N 5782268 Layer 1			
Layer Depth (mm):	150	150	150	150	150	150			
Test Depth (mm):	125	125	125	125	125	125			
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)			
Max Size (mm):	19.0	19.0	19.0	19.0	19.0	19.0			
Oversize Wet (%):	0	0	0	0	0	0			
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.09	2.12	2.02	2.09	2.07	2.08			
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-	-	-			
PCWD (t/m ³):	2.09	1.99	2.02	2.02	2.07	2.07			
APCWD (t/m ³):	-	-	-	-	-	-			
O.M.C (%) AS1289.5.7.1:	-	-	-	-	-	-			
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-	-	-			
Moisture Variation (of omc):	0.5% (wet)	0.5% (wet)	0.5% (wet)	2% (dry)	0.5% (wet)	0.5% (wet)			
Adjusted Moisture Variation (of omc):	-	-	-	-	-	-			
Compactive Effort:	Standard	Standard	Standard	Standard	Standard	Standard			
Hilf Density Ratio (%):	100.0	106.0	100.0	103.5	100.0	100.5			
Min Hilf Density Ratio (%):	95	95	95	95	95	95			

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 29**

Report Date: 23/05/16

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606695	1606696	1606697	1606698	1606699				
ID No.:	1	2	3	4	5				
Lot No.:	-	-	-	-	-				
Date Sampled:	21/05/2016	21/05/2016	21/05/2016	21/05/2016	21/05/2016				
Time Sampled:	am	am	am	am	am				
Date Tested:	23/05/2016	23/05/2016	23/05/2016	23/05/2016	23/05/2016				
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived	Site Derived				
Material Description:	Silty Clay	Silty Clay	Silty Clay	Silty Clay	Silty Clay				
To Be Used As	Fill	Fill	Fill	Fill	Fill				
Sample Location :	E 354831 N 5782207 Layer 2	E 354835 N 5782243 Layer 2	E 354860 N 5782247 Layer 2	E 354816 N 5782284 Layer 2	E 355055 N 5782322 Layer 2				
Layer Depth (mm):	150	150	150	150	150				
Test Depth (mm):	125	125	125	125	125				
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)				
Max Size (mm):	19.0	19.0	19.0	19.0	19.0				
Oversize Wet (%):	0	0	0	0	0				
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.04	2.10	2.03	2.04	1.99				
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-	-				
PCWD (t/m ³):	2.06	2.03	1.98	2.07	1.97				
APCWD (t/m ³):	-	-	-	-	-				
O.M.C (%) AS1289.5.7.1:	-	-	-	-	-				
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-	-				
Moisture Variation (of omc):	3% (wet)	0.5% (wet)	1% (dry)	2% (dry)	2% (dry)				
Adjusted Moisture Variation (of omc):	-	-	-	-	-				
Compactive Effort:	Standard	Standard	Standard	Standard	Standard				
Hilf Density Ratio (%):	99.0	103.0	102.5	98.5	101.0				
Min Hilf Density Ratio (%):	95	95	95	95	95				

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735 - 30**

Report Date: 02/06/16

C.G Order No: **151750**

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1607006	1607007								
ID No.:	1	2								
Lot No.:	-	-								
Date Sampled:	30/05/2016	30/05/2016								
Time Sampled:	pm	pm								
Date Tested:	31/05/2016	31/05/2016								
Material Source:	Site Derived	Site Derived								
Material Description:	Silty Clay	Silty Clay								
To Be Used As	Fill	Fill								
Sample Location :	E 354998 N 5782235 Layer 3	E 354999 N 5782245 Layer 3								
Layer Depth (mm):	150	150								
Test Depth (mm):	125	125								
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)								
Max Size (mm):	19.0	19.0								
Oversize Wet (%):	3	6								
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.10	2.11								
Fld. Moisture Content (%) AS1289.2.1.1:	-	-								
PCWD (t/m ³):	-	-								
APCWD (t/m ³):	2.09	2.07								
O.M.C (%) AS1289.5.7.1:	-	-								
Moisture Ratio (%) AS1289.5.4.1:	-	-								
Moisture Variation (of omc):	1% (wet)	1% (dry)								
Adjusted Moisture Variation (of omc):	-	-								
Compactive Effort:	Standard	Standard								
Hilf Density Ratio (%):	101.0	101.5								
Min Hilf Density Ratio (%):	95	95								

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



HILF DENSITY RATIO REPORT

Report Number: **380735 - 48**

Report Date: 08/09/16

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

Customer: Grosevnor Lodge Pty Ltd
Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175
Project: Meridian Estate
Location: Clyde North
Customer Order No.: -

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1610555									
ID No.:	1									
Lot No.:	-									
Date Sampled:	7/09/2016									
Time Sampled:	pm									
Date Tested:	8/09/2016									
Material Source:	Site Derived									
Material Description:	Silty Clay									
To Be Used As	Fill									
Sample Location :	Meridian Estate E354716 N57828414 Roadway									
Layer Depth (mm):	200									
Test Depth (mm):	150									
Sampling Procedure:	AS1289.1.2.1.6.4(b)									
Max Size (mm):	19.0									
Oversize Wet (%):	0									
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.03									
Fld. Moisture Content (%) AS1289.2.1.1:	-									
PCWD (t/m ³):	1.95									
APCWD (t/m ³):	-									
O.M.C (%) AS1289.5.7.1:	-									
Moisture Ratio (%) AS1289.5.4.1:	-									
Moisture Variation (of omc):	2.5% (dry)									
Adjusted Moisture Variation (of omc):	-									
Compactive Effort:	Standard									
Hilf Density Ratio (%):	104.5									
Min Hilf Density Ratio (%):	95									

Remarks:



Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

APPROVED SIGNATORY

A. Catton

A. Catton

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Report Number: **380735.007 - 2**

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Report Date: 31/03/17

Project: Meridian Estate - Stage 7

HILF DENSITY RATIO REPORT

C.G Order No: -

Location: Clyde North

Test Method: AS1289.5.7.1

Customer Order No.: -

Page: 1 of 1

Testing performed and reported at our Dandenong South Laboratory 12712

Sample No.:	1704585	1704586								
ID No.:	1	2								
Lot No.:	-	-								
Date Sampled:	17/03/2017	17/03/2017								
Time Sampled:	am/pm	am/pm								
Date Tested:	20/03/2017	20/03/2017								
Material Source:	Site Derived	Site Derived								
Material Description:	Clay	Clay								
To Be Used As	Fill	Fill								
Sample Location :	E354858	E354823								
	N5782392	N5782406								
	Layer 1	Layer 1								
Layer Depth (mm):	200	200								
Test Depth (mm):	150	150								
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)								
Max Size (mm):	19.0	19.0								
Oversize Wet (%):	0	8								
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.12	2.03								
Fld. Moisture Content (%) AS1289.2.1.1:	-	-								
PCWD (t/m ³):	2.00	-								
APCWD (t/m ³)	-	2.12								
O.M.C (%) AS1289.5.7.1:	-	-								
Moisture Ratio (%) AS1289.5.4.1:	-	-								
Moisture Variation (of omc):	omc	omc								
Adjusted Moisture Variation (of omc):	-	-								
Compactive Effort:	Standard	Standard								
Hilf Density Ratio (%):	106.0	95.5								
Min Hilf Density Ratio (%):	95	95								

Remarks:



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APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Report Number: **380735.007** - 1

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Report Date: 21/03/17

Project: Meridian Estate - Stage 7

HILF DENSITY RATIO REPORT

C.G Order No: -

Location: Clyde North

Test Method: AS1289.5.7.1

Customer Order No.: -

Page: 1 of 1

Testing performed and reported at our Dandenong South Laboratory 12712

Sample No.:	1704746									
ID No.:	1									
Lot No.:	-									
Date Sampled:	18/03/2017									
Time Sampled:	am/pm									
Date Tested:	20/03/2017									
Material Source:	Site Derived									
Material Description:	Clay									
To Be Used As	Fill									
Sample Location :	E354806									
	N5782381									
	Stage 7									
	Layer 1									
Layer Depth (mm):	200									
Test Depth (mm):	150									
Sampling Procedure:	AS1289.1.2.1.6.4(b)									
Max Size (mm):	19.0									
Oversize Wet (%):	0									
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	1.95									
Fld. Moisture Content (%) AS1289.2.1.1:	-									
PCWD (t/m ³):	1.83									
APCWD (t/m ³)	-									
O.M.C (%) AS1289.5.7.1:	-									
Moisture Ratio (%) AS1289.5.4.1:	-									
Moisture Variation (of omc):	3.5% (dry)									
Adjusted Moisture Variation (of omc):	-									
Compactive Effort:	Standard									
Hilf Density Ratio (%):	107.0									
Min Hilf Density Ratio (%):	95									

Remarks:



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APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate - Stage 7

Location: Clyde North

Customer Order No.: -

Report Number: **380735.007 - 3**

Report Date: 31/03/17

C.G Order No: -

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 12712

Sample No.:	1705196	1705197								
ID No.:	1	2								
Lot No.:	-	-								
Date Sampled:	29/03/2017	29/03/2017								
Time Sampled:	am/pm	am/pm								
Date Tested:	30/03/2017	30/03/2017								
Material Source:	Site Derived	Site Derived								
Material Description:	Clay	Clay								
To Be Used As	Fill	Fill								
Sample Location :	E354786 N5782316	E354870 N5782324								
Layer Depth (mm):	200	200								
Test Depth (mm):	150	150								
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)								
Max Size (mm):	19.0	19.0								
Oversize Wet (%):	0	0								
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.02	2.00								
Fld. Moisture Content (%) AS1289.2.1.1:	-	-								
PCWD (t/m ³):	1.95	1.99								
APCWD (t/m ³)	-	-								
O.M.C (%) AS1289.5.7.1:	-	-								
Moisture Ratio (%) AS1289.5.4.1:	-	-								
Moisture Variation (of omc):	1.5% (dry)	omc								
Adjusted Moisture Variation (of omc):	-	-								
Compactive Effort:	Standard	Standard								
Hilf Density Ratio (%):	103.5	100.5								
Min Hilf Density Ratio (%):	95	95								

Remarks:



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APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

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.:

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

Approved Signatory: M. Robinson
 (Senior Technician)

12712 Date of Issue: 30/05/2017

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Stage 5
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-01650	S17DS-01651	S17DS-01652	S17DS-01653	S17DS-01654
Field Sample ID	1	2	3	4	5
Date Tested	8/05/2017	8/05/2017	8/05/2017	8/05/2017	8/05/2017
E	354861	354801	354774	354816	354861
N	5782283	5782273	5782306	5782323	5782334
Soil Description	Clay	Clay	Clay	Clay	Clay

Field and Laboratory Data

Depth of Test (mm)	150	150	150	150	150
Depth of Layer (mm)	200	200	200	200	200
Oversize Wet (%)		2			
Field Wet Density (t/m ³)	2.17	2.10	2.18	1.98	2.01
Peak Converted Wet Density (t/m ³)	2.00	2.12	2.05	2.11	2.10
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.5 dry	0.5 wet	0.0	0.5 wet	0.0
Hilf Density Ratio (%)	108.5	99.5	106.5	94.0	95.5

Comments

Head Office
25 Metcalf Street
DANDENONG SOUTH VIC 3175

Ph: +61 3 8796 7900
Fax: +61 3 8796 7944



Customer: Grosevnor Lodge Pty Ltd

Customer Address: 48 Healy Road, Dandenong Sth, Vic 3175

Project: Meridian Estate

Location: Clyde North

Customer Order No.: -

Report Number: **380735** - 19

Report Date: 17/05/16

C.G Order No: **151741**

Test Method: AS1289.5.7.1

Page: 1 of 1

HILF DENSITY RATIO REPORT

Testing performed and reported at our Dandenong South Laboratory 21712

Sample No.:	1606359	1606360	1606361	1606362					
ID No.:	1	2	3	4					
Lot No.:	-	-	-	-					
Date Sampled:	13/05/2016	13/05/2016	13/05/2016	13/05/2016					
Time Sampled:	am/pm	am/pm	am/pm	am/pm					
Date Tested:	16/05/2016	16/05/2016	16/05/2016	16/05/2016					
Material Source:	Site Derived	Site Derived	Site Derived	Site Derived					
Material Description:	Clay	Clay	Clay	Clay					
To Be Used As	-	-	-	-					
Sample Location :	E 355074 N 5782278 Layer 2	E 354940 N 5782223 Layer 1	E 354922 N 5782296 Layer 1	E 354925 N 5782264 Layer 1					
Layer Depth (mm):	175	175	175	175					
Test Depth (mm):	150	150	150	150					
Sampling Procedure:	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)	AS1289.1.2.1.6.4(b)					
Max Size (mm):	19.0	19.0	19.0	19.0					
Oversize Wet (%):	0	0	0	0					
Fld. Wet Density (t/m ³) AS 1289.5.8.1:	2.07	1.99	2.04	1.96					
Fld. Moisture Content (%) AS1289.2.1.1:	-	-	-	-					
PCWD (t/m ³):	2.02	1.92	2.06	2.00					
APCWD (t/m ³)	-	-	-	-					
O.M.C (%) AS1289.5.7.1:	-	-	-	-					
Moisture Ratio (%) AS1289.5.4.1:	-	-	-	-					
Moisture Variation (of omc):	1% (dry)	2% (dry)	0.5% (wet)	omc					
Adjusted Moisture Variation (of omc):	-	-	-	-					
Compactive Effort:	Standard	Standard	Standard	Standard					
Hilf Density Ratio (%):	102.0	103.5	99.0	97.5					
Min Hilf Density Ratio (%):	95	95	95	95					

Remarks:



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APPROVED SIGNATORY

M. Robinson

Form No.: **CG.315.002**

Issue Date: 19/02/2013

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate Clyde Stage 7
Project No.: 3807351.007
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/International standards.

Approved Signatory: M. Robinson
(Senior Technician)

12712 Date of Issue: 14/11/2017

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-08395				
Field Sample ID	1				
Date Tested	10/11/2017				
E	354820				
N	5782321				
Soil Description	Clay				

Field and Laboratory Data

Depth of Test (mm)	150				
Field Wet Density (t/m ³)	2.02				
Peak Converted Wet Density (t/m ³)	1.95				
Compactive Effort	Standard				
Moisture Variation (%)	3.0 dry				
Hilf Density Ratio (%)	103.5				

Comments

Appendix D: Controlled Fill Certificates

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 701 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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, up to 10th November 2017. 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 702 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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, up to 10th November 2017. 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 703 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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, up to 10th November 2017. 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 704 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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, up to 10th November 2017. 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 705 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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www.chadwickgeotechnics.com.au

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 706 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 707 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 708 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 709 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 710 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 711 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 712 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 713 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 714 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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Robert Barden
Geotechnical Engineer



Tim Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 715 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
PO Box 4136
DANDENONG SOUTH VIC 3164

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 716 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
PO Box 4136
DANDENONG SOUTH VIC 3164

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 717 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
PO Box 4136
DANDENONG SOUTH VIC 3164

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 718 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 719 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 720 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 721 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 722 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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, up to 10th November 2017. 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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www.chadwickgeotechnics.com.au

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 723 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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CHADWICK GEOTECHNICS PTY LTD



Robert Barden
Geotechnical Engineer



Tim Chadwick
Project Director

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www.chadwickgeotechnics.com.au

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 724 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 725 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 726 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 727 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 728 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 729 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 730 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 731 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 732 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 733 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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Robert Barden
Geotechnical Engineer



Tim Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 734 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 735 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 736 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 737 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 738 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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LIMITATIONS

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Robert Barden
Geotechnical Engineer



Tim Chadwick
Project Director

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www.chadwickgeotechnics.com.au

CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot 739 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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, up to 10th November 2017. 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 740 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 741 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 742 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 743 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 744 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

LIMITATIONS

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This report is based on the conditions present and factors affecting the soil at the time of inspection, up to 10th November 2017. 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 745 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 746 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 747 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 748 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 749 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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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 750 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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).

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 751 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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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 752 Chadwick Geotechnics REF : 3807351.007.v1
Meridian Estate - Stage 07
Clyde North, VIC

CLIENT : Grosvenor Lodge Pty Ltd DATE : December 2017
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 Meridian Estate Stage 07 in Clyde North.

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CHADWICK GEOTECHNICS PTY LTD



Robert Barden
Geotechnical Engineer



Tim Chadwick
Project Director

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