



REPORT

Level One Inspection and Testing Services

Meridian Estate Stage 17, Lots 1701 to 1737

Prepared for:

Grosvenor Lodge Pty Ltd

August 2020

Our Ref: 3807351.017.v1

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

Document Control

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Grosvenor Lodge Pty Ltd

1 electronic copy

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1 electronic copy

Table of contents

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

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) was engaged by Grosvenor Lodge Pty Ltd, to provide Level 1 geotechnical Inspection and Testing services for the earthworks within Stage 17 of the Meridian Estate in Clyde North.

2 Project details

The project included the preparation and filling of lot's 1701 to 1737. 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.

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

- 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 laboratories in accordance with AS1289 'Methods of Testing Soils for Engineering Purposes'.

Prior to fill being placed the subgrade was inspected. The inspections were performed in accordance with the Level 1 guidelines presented in AS 3798-2007 Section 5.5. No soft spots were encountered during the inspections, the area was found to be firm and free of vegetation and other deleterious material.

Full time Level 1 Geotechnical Inspection and Testing of the filling operations commenced on the 25th September 2018 to the 13th February 2019. During this period Chadwick Geotechnics observed the earthworks at the times the earthworks contractor was placing fill. This included the supply of material, conditioning of material (moisture conditioning and oversize removal), placement and compaction of the fill material.

Stages 16 and 17 were constructed at the same time by the earthworks contractor.

All fill material was placed in lift sequences and Chadwick Geotechnics verified that the surface of the stripped area, and that of additional lifts, was thoroughly scarified and moisture conditioned prior to placement of additional layers to prevent delamination at the layer interface.

Field density and moisture content testing was carried out using a calibrated portable density and moisture gauge in accordance with AS 1289.5.8.1. The HILF rapid compaction test was used for peak converted wet density determinations in accordance with AS 1289.5.7.1. Test locations were recorded using a handheld GPS unit. A site plan showing the field density test locations is provided in Appendix A.

A total of one hundred and eleven (111) tests were performed during the filling process across stages 16 and 17.

The results show that four (4) tests failed to meet the specification requirements for the project. The earthworks contractor was advised of the tests that failed and the fill relevant to those areas was reworked, reconditioned, re-compacted and subsequently retested. The final results show the tests achieved the specification requirements for the project.

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

6 Conclusion

On the basis of our inspections and after considering all test results relating to the project, it is our opinion, so far as it is able to be determined, that:

- The materials used by the earthworks contractor met the geotechnical property requirements of the specification.
- The sourced fill was considered to be natural and clean and suitable for use at the site.
- The fill material placed was tested at a suitable frequency in accordance with AS 3798-2007-Table 8.1 and the results indicate the compacted clay achieved the density requirement of the specification.
- Given the consistent construction practices followed by the earthworks contractor and as witnessed by the Chadwick Geotechnics, combined with the satisfactory verification of test results achieved, it is inferred that areas of the site between test locations were performed to the same standard as those areas that have been tested.

It is our opinion that the earthworks undertaken have been performed in accordance with the requirements of Section 8.2 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 prevailing conditions between the 25th September 2018 to the 13th February 2019. 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:



Robert Barden

Geotechnical Engineer

Authorised for Chadwick Geotechnics Pty Ltd by:



Timothy Chadwick

Project Director

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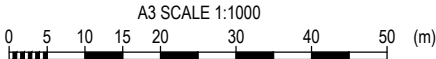
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Appendix A: Density Test Location Plan



NOTES:
1. AERIAL IMAGE SOURCED FROM NEARMAP. COPYRIGHT NEARMAP PTY LTD. IMAGERY DATE: 28/04/2020.
2. BASE PLAN PROVIDED B BROWN PROPERTY GROUP. DRAWING REFERENCE: 8129-17-E-R&D-H-Road & Drainage plans.
DATE RECEIVED: 13/08/2020.



PROJECT No. 3807351.017		
DESIGNED	RBA	Aug.20
DRAWN	KMJA	Aug.20
CHECKED		
APPROVED		
DATE		

CLIENT	GROSVENER LODGE PTY LTD	
PROJECT	MERIDIAN ESTATE - STAGE 17	
TITLE	LEVEL ONE HILF DENSITY TESTING HILF DENSITY TEST LOCATION PLAN	
SCALE (A3)	1:1000	FIG No. FIGURE 01
REV	1	

Appendix B: Table of field density results

Hilf Summary Table

3807351.017 Meridian Estate Stage 16 and 17

Chadwick Geotechnics
25 Metcalf Street
Dandenong South VIC 3175
Tel : (03) 8796 7900
Fax: (03) 8796 7944



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (≥95%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W18DS02858	10966	25/09/2018	1	355725	5782138	1	98.5	2 dry	Pass	
HDR:W18DS02858	10967	25/09/2018	2	355756	5782138	2	101.5	0.5 dry	Pass	
HDR:W18DS02879	11042	26/09/2018	1	355728	5782132	5	98.5	2 dry	Pass	
HDR:W18DS02879	11043	26/09/2018	2	355737	5782139	4	96.5	0.5 dry	Pass	
HDR:W18DS02879	11044	26/09/2018	3	355749	5782140	3	101.5	0 wet	Pass	
HDR:W18DS02910	11135	1/10/2018	1	355737	5782114	6	98	2 dry	Pass	
HDR:W18DS02910	11136	1/10/2018	2	355744	5782137	7	99	1 dry	Pass	
HDR:W18DS03300	12732	12/11/2018	1	355784	5782187	2	98	0.5 wet	Pass	
HDR:W18DS03300	12733	12/11/2018	2	355791	5782201	1	102	0.5 wet	Pass	
HDR:W18DS03319	12816	13/11/2018	1	355788	5782219	3	99	2.5 wet	Pass	
HDR:W18DS03319	12817	13/11/2018	2	355813	5782218	3	98.5	0 wet	Pass	
HDR:W18DS03338	12910	14/11/2018	1	355788	5782229	4	99.5	0.5 wet	Pass	
HDR:W18DS03338	12911	14/11/2018	2	355801	5782213	4	100	0.5 wet	Pass	
HDR:W18DS03354	12975	15/11/2018	1	355794	5782206	5	101.5	1 dry	Pass	
HDR:W18DS03354	12976	15/11/2018	2	355776	5782222	5	99	0.5 dry	Pass	
HDR:W18DS03379	13090	16/11/2018	1	355793	5782236	6	96	0.5 wet	Pass	
HDR:W18DS03411	13258	19/11/2018	1	355766	5782195	7	103	0 dry	Pass	
HDR:W18DS03411	13259	19/11/2018	2	355762	5782198	6	104	0.5 wet	Pass	
HDR:W18DS03498	13659	28/11/2018	1	355802	5782162	1	100	0 wet	Pass	
HDR:W18DS03498	13660	28/11/2018	2	355784	5782156	2	98	0 wet	Pass	
HDR:W18DS03498	13661	28/11/2018	3	355771	5782169	2	94.5	0.5 wet	Fail	See Retest 69
HDR:W18DS03498	13662	28/11/2018	4	355816	5782197	1	98.5	0 wet	Pass	
HDR:W18DS03514	13723	29/11/2018	1	355787	5782223	7	102	2 dry	Pass	
HDR:W18DS03604	14141	7/12/2018	1	355788	5782168	3	95.5	0.5 wet	Pass	
HDR:W18DS03604	14142	7/12/2018	2	355833	5782200	3	96.5	1 wet	Pass	

Hilf Summary Table

3807351.017 Meridian Estate Stage 16 and 17



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (≥95%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W18DS03644	14265	11/12/2018	1	355781	5782169	4	100	0 wet	Pass	
HDR:W18DS03644	14266	11/12/2018	2	355803	5782184	4	96	1 wet	Pass	
HDR:W19DS00014	49	7/01/2019	1	355841	5782180	1	100	0.5 dry	Pass	
HDR:W19DS00019	67	8/01/2019	1	355851	578215	1	96.5	2 wet	Pass	
HDR:W19DS00019	68	8/01/2019	2	355838	5782149	3	95	0 wet	Pass	
HDR:W19DS00019	69	8/01/2019	3	355836	5782150	2	95.5	2 wet	Pass	Retest of 13661
HDR:W19DS00019	70	8/01/2019	4	355821	578219	2	95	0 dry	Pass	
HDR:W19DS00019	71	8/01/2019	5	355818	5782131	3	95	0 dry	Pass	
HDR:W19DS00025	83	9/01/2019	1	355845	5782195	5	96	1.5 wet	Pass	
HDR:W19DS00025	84	9/01/2019	2	355822	5782163	5	93.5	3 wet	Fail	See Retest 138
HDR:W19DS00025	85	9/01/2019	3	355851	5782192	4	96	1 wet	Pass	
HDR:W19DS00025	86	9/01/2019	4	355846	5782132	2	99	2 wet	Pass	
HDR:W19DS00025	87	9/01/2019	5	355824	5782165	4	96.5	2 wet	Pass	
HDR:W19DS00025	88	9/01/2019	6	355848	5782135	1	100	2 wet	Pass	
HDR:W19DS00025	89	9/01/2019	7	355854	5782105	1	95.5	0 wet	Pass	
HDR:W19DS00025	90	9/01/2019	8	355850	5782107	2	97	2 wet	Pass	
HDR:W19DS00034	131	10/01/2019	1	355873	5782144	3	102.5	1.5 dry	Pass	
HDR:W19DS00034	132	10/01/2019	2	355849	5782118	3	98	0 wet	Pass	
HDR:W19DS00034	133	10/01/2019	3	355871	5782145	3	96	2.5 wet	Pass	
HDR:W19DS00034	134	10/01/2019	4	355852	5782189	6	96	0.5 dry	Pass	
HDR:W19DS00034	135	10/01/2019	5	355855	5782187	7	96.5	1 wet	Pass	
HDR:W19DS00034	136	10/01/2019	6	355838	5782158	7	96	0.5 wet	Pass	
HDR:W19DS00034	137	10/01/2019	7	355841	5782160	6	95.5	0 wet	Pass	
HDR:W19DS00034	138	10/01/2019	8	355823	5782165	5	97.5	0.5 wet	Pass	Retest of 84
HDR:W19DS00034	139	10/01/2019	9	355870	5782136	4	99	0.5 wet	Pass	

Hilf Summary Table

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Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test (≥95%)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W19DS00034	140	10/01/2019	10	355859	578117	4	97.5	1 wet	Pass	
HDR:W19DS00044	165	11/01/2019	1	355878	5782144	5	99	0 wet	Pass	
HDR:W19DS00044	166	11/01/2019	2	355897	5782074	1	99.5	0.5 wet	Pass	
HDR:W19DS00044	168	11/01/2019	3	355880	5782103	1	100	1 wet	Pass	
HDR:W19DS00044	169	11/01/2019	4	355880	5782101	2	102	1 wet	Pass	
HDR:W19DS00044	167	11/01/2019	5	355899	5782076	2	97.5	0 dry	Pass	
HDR:W19DS00052	203	14/01/2019	1	355873	5782100	4	95.5	0.5 wet	Pass	
HDR:W19DS00052	204	14/01/2019	2	355893	5782087	3	96.5	2 dry	Pass	
HDR:W19DS00052	205	14/01/2019	3	355912	5782111	3	98	2 wet	Pass	
HDR:W19DS00052	206	14/01/2019	4	355904	5782128	4	96.5	2 wet	Pass	
HDR:W19DS00068	263	15/01/2019	1	355808	5782084	2	95.5	0 wet	Pass	
HDR:W19DS00068	264	15/01/2019	2	355806	5782082	1	96	0.5 wet	Pass	
HDR:W19DS00068	265	15/01/2019	3	355849	5782080	1	99.5	0 wet	Pass	
HDR:W19DS00068	266	15/01/2019	4	355852	5782078	2	98	2.5 wet	Pass	
HDR:W19DS00068	267	15/01/2019	5	355878	5782089	5	96.5	0.5 dry	Pass	
HDR:W19DS00068	268	15/01/2019	6	355893	5782112	5	99	0.5 dry	Pass	
HDR:W19DS00086	359	16/01/2019	1	355889	5782125	6	101	2.5 wet	Pass	
HDR:W19DS00086	360	16/01/2019	2	355889	5782081	6	96.5	3 wet	Pass	
HDR:W19DS00086	361	16/01/2019	3	355852	5782074	3	97.5	3 wet	Pass	
HDR:W19DS00086	362	16/01/2019	4	355823	5782098	3	95.5	1.5 wet	Pass	
HDR:W19DS00086	363	16/01/2019	5	355788	5782102	2	98	0.5 wet	Pass	
HDR:W19DS00086	364	16/01/2019	6	355785	5782124	1	97	2.5 wet	Pass	
HDR:W19DS00103	422	17/01/2019	1	355871	5782073	4	100	0 wet	Pass	
HDR:W19DS00103	423	17/01/2019	2	35587	5782098	3	97.5	3 wet	Pass	
HDR:W19DS00103	424	17/01/2019	3	355893	5782113	7	96.5	0.5 wet	Pass	

Hilf Summary Table

3807351.017 Meridian Estate Stage 16 and 17

Chadwick Geotechnics
25 Metcalf Street
Dandenong South VIC 3175
Tel : (03) 8796 7900
Fax: (03) 8796 7944



Report No	Sample No	Date	Test Number	Location [E]	Location [N]	Layer	Density Ratio HILF test ($\geq 95\%$)	Moisture Variation From OMC	Pass / Fail	Remarks
HDR:W19DS00103	425	17/01/2019	4	355909	5782042	7	102	0 dry	Pass	
HDR:W19DS00103	426	17/01/2019	5	355864	5782099	7	101	0 wet	Pass	
HDR:W19DS00138	529	18/01/2019	1	355797	5782122	4	96.5	2.5 wet	Pass	
HDR:W19DS00138	530	18/01/2019	2	355769	5782127	1	99.5	2 wet	Pass	
HDR:W19DS00138	531	18/01/2019	3	355758	5782101	2	96.5	1.5 wet	Pass	
HDR:W19DS00170	635	21/01/2019	1	355910	5782049	1	100	0 wet	Pass	
HDR:W19DS00170	636	21/01/2019	2	355914	5782055	2	99.5	0 wet	Pass	
HDR:W19DS00170	637	21/01/2019	3	355930	5782077	1	97.5	1.5 dry	Pass	
HDR:W19DS00170	638	21/01/2019	4	355933	5782075	2	94.5	0.5 wet	Fail	See Retest 684
HDR:W19DS00186	681	22/01/2019	1	355785	5782131	4	97.5	0 wet	Pass	
HDR:W19DS00186	682	22/01/2019	2	355777	5782111	3	101	1.5 wet	Pass	
HDR:W19DS00186	683	22/01/2019	3	355916	5782041	3	101.5	0.5 wet	Pass	
HDR:W19DS00186	684	22/01/2019	4	355934	5782077	2	103.5	1 dry	Pass	Retest of 638
HDR:W19DS00186	685	22/01/2019	5	355917	5782085	3	103	4 dry	Fail	See Retest 817
HDR:W19DS00204	746	23/01/2019	1	355793	5782061	1	98.5	0 wet	Pass	
HDR:W19DS00204	747	23/01/2019	2	355795	5782064	2	99	1 wet	Pass	
HDR:W19DS00204	748	23/01/2019	3	355838	5782047	2	99.5	0.5 dry	Pass	
HDR:W19DS00204	749	23/01/2019	4	355843	5782054	1	99	1 dry	Pass	
HDR:W19DS00204	750	23/01/2019	5	355888	5782034	2	96	0.5 wet	Pass	
HDR:W19DS00204	751	23/01/2019	6	355882	5782037	1	99	1 dry	Pass	
HDR:W19DS00216	817	24/01/2019	1	355915	5782087	3	103.5	0 dry	Pass	Retest of 685
HDR:W19DS00216	818	24/01/2019	2	355928	5782092	5	97.5	0.5 wet	Pass	
HDR:W19DS00216	819	24/01/2019	3	355933	5782084	4	99.5	0 wet	Pass	

[illegible]

Appendix C NATA endorsed laboratory reports

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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: B. Taseski
(Senior Technician)
Date of Issue: 1/10/2018

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-10966	S18DS-10967				
Field Sample ID	1	2				
Date Tested	25/09/2018	25/09/2018				
E	355725	355756				
N	5782138	5782138				
	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)	1.96	1.97				
Peak Converted Wet Density (t/m³)	1.99	1.95				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	2.0 dry	0.5 dry				
Hilf Density Ratio (%)	98.5	101.5				


Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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: B. Taseski
(Senior Technician)
Date of Issue: 1/10/2018

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-11042	S18DS-11043	S18DS-11044			
Field Sample ID	1	2	3			
Date Tested	26/09/2018	26/09/2018	26/09/2018			
E	355728	355737	355749			
N	5782132	5782139	5782140			
	Layer 5	Layer 4	Layer 3			
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	19.0	19.0			
Oversize Wet (%)	0	0	0			
Field Wet Density (t/m³)	1.93	1.93	1.95			
Peak Converted Wet Density (t/m³)	1.96	2.00	1.92			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	2.0 dry	0.5 dry	0.0			
Hilf Density Ratio (%)	98.5	96.5	101.5			

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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: 3/10/2018

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-11135	S18DS-11136				
Field Sample ID	1	2				
Date Tested	1/10/2018	1/10/2018				
Location	355737	355744				
E	5782114	5782137				
N	Layer 6	Layer 7				
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)	2.03	1.98				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	2.0 dry	1.0 dry				
Hilf Density Ratio (%)	98.0	99.0				


Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 15
Project No.: 3807351.015

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing



The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
12712

Approved Signatory: M. Robinson
(Senior Technician)
Date of Issue: 8/10/2018

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-11294	S18DS-11295	S18DS-11296			
Field Sample ID	1	2	3			
Date Tested	3/10/2018	3/10/2018	3/10/2018			
E	355734	355786	355793			
N	5782238	5782263	5782254			
	Layer 2	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/m³)	1.99	2.06	2.03			
Peak Converted Wet Density (t/m³)	1.97	2.08	2.09			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	1.0 dry	0.5 dry	0.0			
Hilf Density Ratio (%)	101.0	99.0	97.0			

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing




Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 23/11/2018
12712
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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-12732	S18DS-12733				
Field Sample ID	1	2				
Date Tested	12/11/2018	12/11/2018				
Location	355784	355791				
E	5782187	5782201				
N	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)	2.02	2.06				
Peak Converted Wet Density (t/m³)	2.07	2.01				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.5 wet	0.5 wet				
Hilf Density Ratio (%)	98.0	102.0				

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
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Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 23/11/2018
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Sample Details

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 98% 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-12816	S18DS-12817				
Field Sample ID	1	2				
Date Tested	13/11/2018	13/11/2018				
Location	355788	355813				
E	5782219	5782218				
N	Layer 3	Layer 3				
Soil Description	Clay	Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
Field Wet Density (t/m ³)	2.05	2.03				
Peak Converted Wet Density (t/m ³)	2.07	2.06				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	2.5 wet	0.0				
Hilf Density Ratio (%)	99.0	98.5				

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
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(Senior Technician)
Date of Issue: 23/11/2018
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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-12910	S18DS-12911				
Field Sample ID	1	2				
Date Tested	14/11/2018	14/11/2018				
Location	355788	355801				
E	5782229	5782213				
N	Layer 4	Layer 4				
Soil Description	Silty Clay	Silty Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
Field Wet Density (t/m ³)	2.06	2.03				
Peak Converted Wet Density (t/m ³)	2.07	2.03				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.5 wet	0.5 wet				
Hilf Density Ratio (%)	99.5	100.0				

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 23/11/2018
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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-12975	S18DS-12976			
Field Sample ID	1	2			
Date Tested	15/11/2018	15/11/2018			
Location	355794	355776			
E	5782206	5782222			
N	Layer 5	Layer 5			
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 (%)		18			
Field Wet Density (t/m³)	2.04	2.15			
Peak Converted Wet Density (t/m³)	2.02	2.17			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	1.0 dry	0.5 dry			
Hilf Density Ratio (%)	101.5	99.0			

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
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(Senior Technician)
Date of Issue: 23/11/2018
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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-13090					
Field Sample ID	1					
Date Tested	16/11/2018					
Location	355793					
E	5782236					
N	Layer 6					
Soil Description	Clay					
Depth of Test (mm)	150					
Depth of Layer (mm)	200					
Field Wet Density (t/m³)	1.96					
Peak Converted Wet Density (t/m³)	2.04					
Compactive Effort	Standard					
Moisture Variation (%)	0.5 wet					
Hilf Density Ratio (%)	96.0					

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 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-13258	S18DS-13259				
Field Sample ID	1	2				
Date Tested	19/11/2018	19/11/2018				
Location	355766	355762				
E	5782195	5782198				
N	Layer 7	Layer 6				
Soil Description	Clay	Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	3					
Field Wet Density (t/m³)	2.10	2.10				
Peak Converted Wet Density (t/m³)	2.04	2.02				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.0	0.5 wet				
Hilf Density Ratio (%)	103.0	104.0				

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Robinson
(Senior Technician)
Date of Issue: 11/12/2018

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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-13659	S18DS-13660	S18DS-13661	S18DS-13662		
Field Sample ID	1	2	3	4		
Date Tested	28/11/2018	28/11/2018	28/11/2018	28/11/2018		
E	355802	355784	355771	355816		
N	5782162	5782156	5782169	5782197		
	Layer 1	Layer 2	LAyer 2	Layer 1		
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/m³)	2.00	1.98	1.98	2.04		
Peak Converted Wet Density (t/m³)	2.01	2.02	2.09	2.06		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.0	0.0	0.5 wet	0.0		
Hilf Density Ratio (%)	100.0	98.0	94.5	98.5		

Comments



Dandenong South
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Report No: HDR:W18DS03514

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.:
TRN:

CG Request No.:
Lot No.:

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– Testing

 
Accreditation No. 12715

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Approved Signatory: M. Robinson
(Senior Technician)

12712 Date of Issue: 11/12/2018

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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-13723					
Field Sample ID	1					
Date Tested	29/11/2018					
E	355787					
N	5782223					
	Layer 7					
Soil Description	Clay					
Depth of Test (mm)	150					
Depth of Layer (mm)	200					
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	5					
Field Wet Density (t/m³)	2.14					
Peak Converted Wet Density (t/m³)	2.10					
Compactive Effort	Standard					
Moisture Variation (%)	2.0 dry					
Hilf Density Ratio (%)	102.0					

Comments



Dandenong South
ACN 143 009 330
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Report No: HDR:W18DS03604

Issue No: 1



HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.:
TRN:

CG Request No.:
Lot No.:

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Approved Signatory: M. Robinson
(Senior Technician)

12712 Date of Issue: 11/12/2018

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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-14141	S18DS-14142				
Field Sample ID	1	2				
Date Tested	7/12/2018	7/12/2018				
E	355788	355833				
N	5782168	5782200				
	Layer 3	Layer 3				
Soil Description	Clay	Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
Field Wet Density (t/m ³)	2.00	2.02				
Peak Converted Wet Density (t/m ³)	2.09	2.09				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.5 wet	1.0 wet				
Hilf Density Ratio (%)	95.5	96.5				

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing



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Approved Signatory: M. Robinson
(Senior Technician)
Date of Issue: 12/12/2018

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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-14265	S18DS-14266				
Field Sample ID	1	2				
Date Tested	11/12/2018	11/12/2018				
Location	355781	355803				
E	5782169	5782184				
N	Layer 4	Layer 4				
Soil Description	Clay	Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
Field Wet Density (t/m³)	2.09	2.01				
Peak Converted Wet Density (t/m³)	2.09	2.09				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.0	1.0 wet				
Hilf Density Ratio (%)	100.0	96.0				

Comments



Dandenong South
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Report No: HDR:W19DS00014

Issue No: 1


HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.:
TRN:

CG Request No.:
Lot No.:

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– Testing

 
Accreditation No. 12712

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Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 11/01/2019

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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	S19DS-00049					
Field Sample ID	1					
Date Tested	7/01/2019					
Location	355841					
E	5782180					
N	Layer 1					
Soil Description	Clay					
Depth of Test (mm)	150					
Depth of Layer (mm)	200					
Field Wet Density (t/m ³)	1.99					
Peak Converted Wet Density (t/m ³)	1.99					
Compactive Effort	Standard					
Moisture Variation (%)	0.5 dry					
Hilf Density Ratio (%)	100.0					


Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 11/01/2019

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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	S19DS-00067	S19DS-00068	S19DS-00069	S19DS-00070	S19DS-00071	
Field Sample ID	1	2	3	4	5	
Date Tested	8/01/2019	8/01/2019	8/01/2019	8/01/2019	8/01/2019	
Location	355851	355838	355836	355821	355818	
E	578215	5782149	5782150	578219	5782131	
N	Layer 1	Layer 3	Layer 2	Layer 2	Layer 3	
Soil Description	Clay	Clay	Clay	Clay	Clay	
Depth of Test (mm)	150	150	150	150	150	
Depth of Layer (mm)	200	200	200	200	200	
Field Wet Density (t/m ³)	2.00	1.94	2.00	1.96	1.95	
Peak Converted Wet Density (t/m ³)	2.07	2.04	2.09	2.06	2.06	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Variation (%)	2.0 wet	0.0	2.0 wet	0.0	0.0	
Hilf Density Ratio (%)	96.5	95.0	95.5	95.0	95.0	

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
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(Senior Technician)
Date of Issue: 11/01/2019

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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	S19DS-00083	S19DS-00084	S19DS-00085	S19DS-00086	S19DS-00087	S19DS-00088
Field Sample ID	1	2	3	4	5	6
Date Tested	9/01/2019	9/01/2019	9/01/2019	9/01/2019	9/01/2019	9/01/2019
Location	355845	355822	355851	355846	355824	355848
E	5782195	5782163	5782192	5782132	5782165	5782135
N	Layer 5	Layer 5	Layer 4	Layer 2	Layer 4	Layer 1
Soil Description	Clay	Clay	Clay	Clay	Clay	Clay
Depth of Test (mm)	150	150	150	150	150	150
Depth of Layer (mm)	200	200	200	200	200	200
Field Wet Density (t/m³)	1.98	1.97	2.02	1.99	1.99	2.08
Peak Converted Wet Density (t/m³)	2.06	2.10	2.10	2.00	2.07	2.08
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	1.5 wet	3.0 wet	1.0 wet	2.0 wet	2.0 wet	2.0 wet
Hilf Density Ratio (%)	96.0	93.5	96.0	99.0	96.5	100.0

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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: 11/01/2019
12712
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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	S19DS-00089	S19DS-00090				
Field Sample ID	7	8				
Date Tested	9/01/2019	9/01/2019				
Location	355854	355850				
E	5782105	5782107				
N	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	1.98				
Peak Converted Wet Density (t/m³)	2.14	2.04				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.0	2.0 wet				
Hilf Density Ratio (%)	95.5	97.0				

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 25/01/2019
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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	S19DS-00131	S19DS-00132	S19DS-00133	S19DS-00134	S19DS-00135	S19DS-00136
Field Sample ID	1	2	3	4	5	6
Date Tested	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019	10/01/2019
Location	355873	355849	355871	355852	355855	355838
E	5782144	5782118	5782145	5782189	5782187	5782158
N	Layer 3	Layer 3	Layer 3	Layer 6	Layer 7	Layer 7
Soil Description	Clay	Clay	Clay	Clay	Clay	Clay
Depth of Test (mm)	150	150	150	150	150	150
Depth of Layer (mm)	200	200	200	200	200	200
AS Sieve Size (mm)	19.0					
Oversize Wet (%)	8					
Field Wet Density (t/m³)	2.13	1.98	1.96	1.95	1.94	1.95
Peak Converted Wet Density (t/m³)	2.07	2.02	2.04	2.03	2.01	2.03
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	1.5 dry	0.0	2.5 wet	0.5 dry	1.0 wet	0.5 wet
Hilf Density Ratio (%)	102.5	98.0	96.0	96.0	96.5	96.0

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing




Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 25/01/2019
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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	S19DS-00137	S19DS-00138	S19DS-00139	S19DS-00140		
Field Sample ID	7	8	9	10		
Date Tested	10/01/2019	10/01/2019	10/01/2019	10/01/2019		
Location	355841	355823	355870	355859		
E	5782160	5782165	5782136	578117		
N	Layer 6	Layer 5	Layer 4	Layer 4		
		re-test from				
		9/01/19				
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/m³)	1.95	1.99	2.05	1.99		
Peak Converted Wet Density (t/m³)	2.05	2.04	2.07	2.03		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.0	0.5 wet	0.5 wet	1.0 wet		
Hilf Density Ratio (%)	95.5	97.5	99.0	97.5		

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

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(Senior Technician)
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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	S19DS-00165	S19DS-00166	S19DS-00167	S19DS-00168	S19DS-00169	
Field Sample ID	1	2	3	4	5	
Date Tested	11/01/2019	11/01/2019	11/01/2019	11/01/2019	11/01/2019	
Location	355878	355897	355899	355880	355880	
E	5782144	5782074	5782076	5782103	5782101	
N	Layer 5	Layer 1	Layer 2	Layer 1	Layer 2	
Soil Description	Clay	Clay	Clay	Clay	Clay	
Depth of Test (mm)	150	150	150	150	150	
Depth of Layer (mm)	200	200	200	200	200	
AS Sieve Size (mm)				19.0		
Oversize Wet (%)				4		
Field Wet Density (t/m³)	2.00	2.01	1.97	2.05	2.05	
Peak Converted Wet Density (t/m³)	2.02	2.01	2.02	2.05	2.01	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Variation (%)	0.0	0.5 wet	0.0	1.0 wet	1.0 wet	
Hilf Density Ratio (%)	99.0	99.5	97.5	100.0	102.0	

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

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Approved Signatory: M. Longfield
(Senior Technician)
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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	S19DS-00203	S19DS-00204	S19DS-00205	S19DS-00206		
Field Sample ID	1	2	3	4		
Date Tested	14/01/2019	14/01/2019	14/01/2019	14/01/2019		
Location	355873	355893	355912	355904		
E	5782100	5782087	5782111	5782128		
N	Layer 4	Layer 3	Layer 3	Layer 4		
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/m³)	1.94	1.98	2.03	1.97		
Peak Converted Wet Density (t/m³)	2.03	2.04	2.07	2.04		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.5 wet	2.0 dry	2.0 wet	2.0 wet		
Hilf Density Ratio (%)	95.5	96.5	98.0	96.5		


Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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	S19DS-00263	S19DS-00264	S19DS-00265	S19DS-00266	S19DS-00267	S19DS-00268
Field Sample ID	1	2	3	4	5	6
Date Tested	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019	15/01/2019
Location	355808	355806	355849	355852	355878	355893
E	5782084	5782082	5782080	5782078	5782089	5782112
N	Layer 2	Layer 1	Layer 1	Layer 2	Layer 5	Layer 5
Soil Description	Clay	Clay	Clay	Clay	Clay	Clay
Depth of Test (mm)	150	150	150	150	150	150
Depth of Layer (mm)	200	200	200	200	200	200
Field Wet Density (t/m ³)	1.98	2.00	2.02	2.00	2.00	2.05
Peak Converted Wet Density (t/m ³)	2.07	2.08	2.02	2.04	2.07	2.06
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	0.5 wet	0.0	2.5 wet	0.5 dry	0.5 dry
Hilf Density Ratio (%)	95.5	96.0	99.5	98.0	96.5	99.0

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 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	S19DS-00359	S19DS-00360	S19DS-00361	S19DS-00362	S19DS-00363	S19DS-00364
Field Sample ID	1	2	3	4	5	6
Date Tested	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019	16/01/2019
Location	355889	355889	355852	355823	355788	355785
E	5782125	5782081	5782074	5782098	5782102	5782124
N	Layer 6	Layer 6	Layer 3	Layer 3	Layer 2	Layer 1
Soil Description	Clay	Clay	Clay	Clay	Clay	Clay
Depth of Test (mm)	150	150	150	150	150	150
Depth of Layer (mm)	200	200	200	200	200	200
Field Wet Density (t/m³)	1.99	1.95	2.01	2.00	1.96	1.99
Peak Converted Wet Density (t/m³)	1.97	2.02	2.06	2.09	1.99	2.05
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	2.5 wet	3.0 wet	3.0 wet	1.5 wet	0.5 wet	2.5 wet
Hilf Density Ratio (%)	101.0	96.5	97.5	95.5	98.0	97.0

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 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	S19DS-00422	S19DS-00423	S19DS-00424	S19DS-00425	S19DS-00426	
Field Sample ID	1	2	3	4	5	
Date Tested	17/01/2019	17/01/2019	17/01/2019	17/01/2019	17/01/2019	
Location	355871	35587	355893	355909	355864	
E	5782073	5782098	5782113	5782042	5782099	
N	Layer 4	Layer 3	Layer 7	Layer 7	Layer 7	
Soil Description	Clay	Clay	Clay	Clay	Clay	
Depth of Test (mm)	150	150	150	150	150	
Depth of Layer (mm)	200	200	200	200	200	
Field Wet Density (t/m³)	2.00	1.97	2.01	2.05	2.07	
Peak Converted Wet Density (t/m³)	2.00	2.02	2.08	2.01	2.06	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Variation (%)	0.0	3.0 wet	0.5 wet	0.0	0.0	
Hilf Density Ratio (%)	100.0	97.5	96.5	102.0	101.0	

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 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	S19DS-00529	S19DS-00530	S19DS-00531			
Field Sample ID	1	2	3			
Date Tested	18/01/2019	18/01/2019	18/01/2019			
Location	355797	355769	355758			
E	5782122	5782127	5782101			
N	Layer 4	Layer 1	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/m³)	1.99	2.07	1.97			
Peak Converted Wet Density (t/m³)	2.06	2.09	2.04			
Compactive Effort	Standard	Standard	Standard			
Moisture Variation (%)	2.5 wet	2.0 wet	1.5 wet			
Hilf Density Ratio (%)	96.5	99.5	96.5			

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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	S19DS-00635	S19DS-00636	S19DS-00637	S19DS-00638		
Field Sample ID	1	2	3	4		
Date Tested	21/01/2019	21/01/2019	21/01/2019	21/01/2019		
Location	355910	355914	355930	355933		
E	5782049	5782055	5782077	5782075		
N	Layer 1	Layer 2	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		
Field Wet Density (t/m ³)	1.95	1.95	1.91	1.94		
Peak Converted Wet Density (t/m ³)	1.96	1.96	1.95	2.05		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.0	0.0	1.5 dry	0.5 wet		
Hilf Density Ratio (%)	100.0	99.5	97.5	94.5		

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 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	S19DS-00681	S19DS-00682	S19DS-00683	S19DS-00684	S19DS-00685	
Field Sample ID	1	2	3	4	5	
Date Tested	22/01/2019	22/01/2019	22/01/2019	22/01/2019	22/01/2019	
Location	355785	355777	355916	355934	355917	
E	5782131	5782111	5782041	5782077	5782085	
N	Layer 4	Layer 3	Layer 3	Layer 2	Layer 3	
				re-test from		
				21/01/19		
Soil Description	Clay	Clay	Clay	Clay	Clay	
Depth of Test (mm)	150	150	150	150	150	
Depth of Layer (mm)	200	200	200	200	200	
Field Wet Density (t/m³)	1.99	2.04	1.98	1.95	1.95	
Peak Converted Wet Density (t/m³)	2.04	2.02	1.95	1.88	1.89	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Variation (%)	0.0	1.5 wet	0.5 wet	1.0 dry	4.0 dry	
Hilf Density Ratio (%)	97.5	101.0	101.5	103.5	103.0	

Comments



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

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Report No: HDR:W19DS00204

Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.:
TRN:

CG Request No.:
Lot No.:

Accredited for compliance with ISO/IEC 17025
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Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 25/01/2019

12712

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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	S19DS-00746	S19DS-00747	S19DS-00748	S19DS-00749	S19DS-00750	S19DS-00751
Field Sample ID	1	2	3	4	5	6
Date Tested	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019	23/01/2019
Location	355793	355795	355838	355843	355888	355882
E	5782061	5782064	5782047	5782054	5782034	5782037
N	Layer 1	Layer 2	Layer 2	Layer 1	Layer 2	Layer 1
Soil Description	Clay	Clay	Clay	Clay	Clay	Clay
Depth of Test (mm)	150	150	150	150	150	150
Depth of Layer (mm)	200	200	200	200	200	200
Field Wet Density (t/m ³)	2.03	2.03	2.00	2.02	1.97	2.02
Peak Converted Wet Density (t/m ³)	2.06	2.04	2.01	2.04	2.05	2.04
Compactive Effort	Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	1.0 wet	0.5 dry	1.0 dry	0.5 wet	1.0 dry
Hilf Density Ratio (%)	98.5	99.0	99.5	99.0	96.0	99.0

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

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: 25/01/2019
12712
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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	S19DS-00817	S19DS-00818	S19DS-00819	S19DS-00820	S19DS-00821	
Field Sample ID	1	2	3	4	5	
Date Tested	24/01/2019	24/01/2019	24/01/2019	24/01/2019	24/01/2019	
Location	355915	355928	355933	355912	355927	
E	5782087	5782092	5782084	5782044	5782038	
N	Layer 3	Layer 5	Layer 4	Layer 5	Layer 4	
	re-test from					
	22/01/19					
Soil Description	Clay	Clay	Clay	Clay	Clay	
Depth of Test (mm)	150	150	150	150	150	
Depth of Layer (mm)	200	200	200	200	200	
Field Wet Density (t/m³)	2.07	2.00	2.05	2.06	2.03	
Peak Converted Wet Density (t/m³)	2.01	2.05	2.06	2.07	2.07	
Compactive Effort	Standard	Standard	Standard	Standard	Standard	
Moisture Variation (%)	0.0	0.5 wet	0.0	0.5 wet	0.5 wet	
Hilf Density Ratio (%)	103.5	97.5	99.5	99.5	98.0	

Comments



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Report No: HDR:W19DS00267



Issue No: 1

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

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– Testing

 
Accreditation No. 12715

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Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 12/02/2019

12712
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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	S19DS-01026					
Field Sample ID	1					
Date Tested	31/01/2019					
Location	355876					
E	5782050					
N	Layer 5					
Soil Description	Clay					
Depth of Test (mm)	150					
Depth of Layer (mm)	200					
Field Wet Density (t/m ³)	2.06					
Peak Converted Wet Density (t/m ³)	2.09					
Compactive Effort	Standard					
Moisture Variation (%)	0.0					
Hilf Density Ratio (%)	98.0					


Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing



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

Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 12/02/2019

12712
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: General Fill

Sample ID	S19DS-01172	S19DS-01173	S19DS-01174	S19DS-01175		
Field Sample ID	1	2	3	4		
Date Tested	4/02/2019	4/02/2019	4/02/2019	4/02/2019		
Location	355949	355954	355927	355938		
E	5782057	5782048	5782030	5782034		
N	Layer 1	Layer 2	Layer 2	Layer 1		
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/m³)	2.04	2.06	2.01	2.03		
Peak Converted Wet Density (t/m³)	2.07	2.07	2.06	2.08		
Compactive Effort	Standard	Standard	Standard	Standard		
Moisture Variation (%)	0.0	0.0	2.5 wet	2.5 wet		
Hilf Density Ratio (%)	98.5	100.0	97.5	97.5		


Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing




Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 12/02/2019
12712
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: General Fill

Sample ID	S19DS-01230	S19DS-01231				
Field Sample ID	1	2				
Date Tested	6/02/2019	6/02/2019				
Location	355929	355949				
E	5782063	5782038				
N	Layer 6	Layer 3				
Soil Description	Clay	Clay				
Depth of Test (mm)	150	150				
Depth of Layer (mm)	200	200				
Field Wet Density (t/m ³)	2.12	1.93				
Peak Converted Wet Density (t/m ³)	2.15	1.93				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	0.0	1.0 dry				
Hilf Density Ratio (%)	99.0	100.0				

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing




Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 12/02/2019
12712
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: General Fill

Sample ID	S19DS-01319	S19DS-01320			
Field Sample ID	1	2			
Date Tested	8/02/2019	8/02/2019			
Location	355925	355947			
E	5782069	5782041			
N	Layer 4	Layer 4			
Soil Description	Clay	Clay			
Depth of Test (mm)	150	150			
Depth of Layer (mm)	200	200			
AS Sieve Size (mm)	19.0				
Oversize Wet (%)	0	0			
Field Wet Density (t/m³)	1.98	1.95			
Peak Converted Wet Density (t/m³)	2.02	1.96			
Compactive Effort	Standard	Standard			
Moisture Variation (%)	0.0	0.0			
Hilf Density Ratio (%)	98.0	99.5			

Comments

HILF Density Ratio Report

Client: Greenridge Properties Pty Ltd
Address: PO Box 3131
AUBURN VIC 3123
Project: Meridian Estate - Stage 16
Project No.: 3807351.016

Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025
– Testing



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

Approved Signatory: M. Longfield
(Senior Technician)
Date of Issue: 18/02/2019

12712
THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Clyde North
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 3% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: Onsite
Material: General Fill

Sample ID	S19DS-01403	S19DS-01404				
Field Sample ID	1	2				
Date Tested	13/02/2019	13/02/2019				
Location	355961	355941				
E	5782035	5782065				
N	Layer 6	Layer 5				
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)	1.95	2.08				
Peak Converted Wet Density (t/m³)	1.92	2.02				
Compactive Effort	Standard	Standard				
Moisture Variation (%)	1.5 dry	0.0				
Hilf Density Ratio (%)	101.5	103.0				

Comments

Appendix D: Controlled fill certificates



CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1701 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1702 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1703 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1704
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1705 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1706
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1707 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1708 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1709 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1710 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1711
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1712 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1713
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1714 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1715 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1716
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1717
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1718 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1719 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1720 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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Robert Barden
Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1721 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1722 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1723
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1724 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1725 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

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Robert Barden
Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1726 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CHADWICK GEOTECHNICS PTY LTD

Robert Barden
Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1727 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1728 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1729 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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Timothy Chadwick
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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1730 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

This report is based on the conditions present and factors affecting the soil at the time of inspection (25 September 2018 to 13 February 2019). 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

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1731 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1732 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1733
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1734
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

This Certificate has been commissioned for the filling of the area mentioned above. No responsibility or liability will be accepted for the use of this report for any purpose other than that for which Chadwick Geotechnics Pty Ltd was engaged, specifically for Level 1 Inspection and Testing of the structural fill (excluding top soil).

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Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1735 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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Geotechnical Engineer

Timothy Chadwick
Project Director

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1736 Chadwick Geotechnics REF: 3807351.017.v1
Meridian Estate Stage 17

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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CONTROLLED FILL CERTIFICATE - LEVEL 1 INSPECTION & TESTING

PROJECT : Lot No: 1737
Meridian Estate Stage 17
Chadwick Geotechnics REF: 3807351.017.v1

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

SUMMARY

Chadwick Geotechnics Pty Ltd conducted Level 1 inspection and testing, in accordance with Section 8.2 Level 1 inspection and Testing *AS3798-2007, Guidelines on earthworks for commercial and residential developments*, during the filling of the site.

So far as it is able to be determined, the fill was placed in accordance with the Specification that required a minimum density ratio of 95% of HILF Density (AS1289.5.7.1) to be achieved.

LIMITATIONS

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